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DRAFT Intellectual and Developmental Disabilities Nursing:

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Scope and Standards of Practice, Third Edition

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For Public Comment

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9 Contributors

10 The American Nurses Association (ANA) thanks those who contributed their valuable time and talents to
11 development of *Intellectual and Developmental Disabilities Nursing: Scope and Standards of Practice,*
12 *Third Edition*. This resource builds on and replaces previous editions entitled *Intellectual and*
13 *Developmental Disabilities Nursing: Scope and Standards of Practice* and the original *Statement on the*
14 *Scope and Standards for the Nurse Who Specializes in Developmental Disabilities and/or Mental*
15 *Retardation*. The terminology has changed over the years and is reflected in each edition of the scope
16 statement and standards of this specialty nursing practice.

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 89 The American Nurses Association will approve the scope statement and acknowledge the standards of
 90 practice and professional performance of *Intellectual and Developmental Disabilities Nursing: Scope and*
 91 *Standards of Practice, Third Edition*, as defined herein. Approval is valid for five (5) years from the first
 92 date of publication of this document or until a new scope of practice has been approved, whichever
 93 occurs first.
 94
 95 **About the American Nurses Association**
 96 The American Nurses Association (ANA) is the only full-service professional organization representing
 97 the interests of the nation’s 4 million registered nurses through its constituent/state nurses associations
 98 and its organizational affiliates. The ANA advances the nursing profession by fostering high standards of

99 nursing practice, promoting the rights of nurses in the workplace, projecting a positive and realistic view
100 of nursing, and lobbying the Congress and regulatory agencies on healthcare issues affecting nurses and
101 the public.

102

103 **About Nursesbooks.org, the Publishing Program of ANA**

104 Nursesbooks.org publishes books on ANA core issues and programs, including ethics, leadership, quality,
105 specialty practice, advanced practice, and the profession's enduring legacy. Best known for the
106 foundational documents of the profession on nursing ethics, scope and standards of practice, and social
107 policy, Nursesbooks.org is the publisher for the professional, career-oriented nurse, reaching and
108 serving nurse educators, administrators, managers, and researchers as well as staff nurses in the course
109 of their professional development.

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111 Overview of the Content

112

113 Essential Documents of Professional Nursing

114

115 The American Nurses Association (ANA) has been the vanguard for nursing practice for more than a
116 century. The *Code of Ethics for Nurses with Interpretive Statements* (ANA, 2015) and *Nursing: Scope and*
117 *Standards of Practice* (3rd ed., ANA, 2015), are documents produced by ANA to inform the thinking and
118 decision-making of registered nurses practicing in the United States and guide their practice. The *Code*
119 *of Ethics for Nurses with Interpretive Statements* (ANA, 2015) lists the nine succinct provisions that
120 establish the ethical framework for registered nurses across all roles, levels, and settings. *Nursing:*
121 *Scope and Standards of Practice* (3rd ed., ANA, 2015) outlines the expectations of the professional role
122 of the registered nurse. It includes the Scope of Nursing Practice Statement and presents the Standards
123 of Professional Nursing Practice and their accompanying competencies. These documents are intended
124 to help provide the public with assurances of safe and competent nursing care.

125

126 Along with these documents, specialty nursing organizations have worked with the ANA to publish
127 specific standards of professional practice in their specialty. This document, concerning the care of
128 individuals with intellectual and developmental disabilities (hereafter referred to as IDD), is a revision of
129 the *Intellectual and Developmental Nursing: Scope and Standards of Practice, 2nd Edition*. This
130 document has been revised to: (a) capture the changing practice of nursing in this specialty (i.e.,
131 encompassing all levels of education and all system levels of care from the individual to the system
132 itself), (b) emphasize the unique health care needs and characteristics of individuals of all ages with
133 IDD, (c) incorporate the ANA standards mentioned earlier (ANA, 2015a), (d) incorporate the provisions
134 of the *Code of Ethics for Nurses with Interpretive Statements* (ANA, 2015b); (e) emphasize the
135 importance of a family-centered and consumer-centered framework of care; and (f) incorporate the
136 developments in the field since the last edition. The previous edition of these specialty standards and
137 scope of practice is found in Appendix A.

138

139 Adolescents and adults with IDD and their families/legal guardian(s) collaborate with healthcare
140 professionals to make person-centered decisions about their health care. This self-advocacy has arisen
141 in tandem with an evolving healthcare system that may or may not optimize healthcare options for all
142 people. Therefore, in response to these changes, individuals of all ages with IDD and their families/legal
143 guardian(s) should be assured of safe and effective nursing care. This document addresses this care, the
144 associated nursing standards, and the competencies expected of registered nurses who specialize in
145 IDD practices.

146

147 Additional Content

148

149 This document should also be used in conjunction with other specialty nursing scope and standards of
150 practice and professional performance such as but not limited to : *Pediatric Nursing: Scope and*
151 *Standards of Practice, 2nd Edition*, (Society of Pediatric Nurses [SPN], National Association of Pediatric
152 Nurse Practitioners [NAPNAP], & ANA, 2015); *Genetics-Genomics Nursing: Scope and Standards of*
153 *Practice, 2nd Edition*, (International Society of Nurses in Genetics, Inc. & ANA, 2016); *Public Health*
154 *Nursing: Scope and Standards of Practice, 2nd Edition*, (ANA, 2013); *Psychiatric-Mental Health Nursing:*
155 *Scope and Standards of Practice, 2nd Edition*, (American Psychiatric Nurses Association, International
156 Society of Psychiatric-Mental Health Nurses, & ANA, 2014); and *School Nursing: Scope and Standards of*
157 *Practice, 3rd Edition*, (National Association of School Nurses & ANA, 2017). Additional important nursing
158 documents that address the history and context of nursing standards include *Nursing: Scope and*

159 *Standards of Practice, 3rd Edition, (ANA, 2015a); Principles of Environmental Health for Nursing Practice*
160 *(ANA, 2007a); Professional Role Competence: ANA Position Statement, (ANA, 2014); and Principles for*
161 *Nursing Documentation for Registered Nurses and Professional Nursing (ANA, 2015).*

162

163 **Audience for This Publication**

164

165 Nurses, of any educational level and employed in any setting that serves individuals of any age with
166 IDD, make up the primary audience for this book. Legislators, regulators, legal counsel, and the judiciary
167 system will also want to reference it. Agencies, organizations, nurse administrators, other nurses not
168 working in this specialty, and other interprofessional colleagues will find this publication an invaluable
169 reference. In addition, healthcare consumers with IDD, their family/legal guardian(s), communities, and
170 populations using healthcare and nursing services that cover the care of persons with IDD can use this
171 document to better understand the role and responsibilities of registered nurses and advanced practice
172 registered nurses who specialize in IDD.

Scope of Intellectual and Developmental Disabilities (IDD) Nursing Practice

Because the intellectual and developmental nursing specialty historically was primarily associated with an institutional setting and the stigma attached to this population until the late 1950s, many nurses are unfamiliar with this unique specialty nursing practice area. In fact, this nursing specialty was only recognized by the American Nurses Association in 1997 (Nehring, 1999). Unlike many nursing specialties, the scope of practice for nurses who specialize in IDD extends across all levels of care and all healthcare and many educational settings. Even though healthcare consumers with IDD are present today in all communities and healthcare settings, they remain a vulnerable and marginalized population because they often require assistance to advocate for their needs. Many healthcare professionals are not educated or prepared to care for specific condition and developmental needs of individuals with IDD. Such health disparities were highlighted in the Surgeon General's report, *Closing the Gap: A National Blueprint for Improving the Health of Persons with Mental Retardation* (U.S. Public Health Service, 2002). Working in an interdisciplinary context, nurses continue to strive to promote the importance of the nursing contribution in this specialty field and to provide healthcare at both the generalist and advanced practice level.

Definition of Nursing

Nursing is the protection, promotion, and optimization of health and abilities, prevention of illness and injury, facilitation of healing, alleviation of suffering through the diagnosis and treatment of human response, and advocacy in the care of individuals, families, groups, communities, and populations. (p. 1, ANA, 2015a)

This definition serves as the foundation for the following expanded description of the Scope of Nursing Practice and the Standards of Professional Nursing Practice for nurses who specialize in IDD.

Definition of Intellectual and Developmental Disability (IDD) Nursing

Consistent with the ANA (2015a) definition of nursing, IDD nursing focuses on protecting, promoting, and optimizing the health and functioning ability of persons with IDD; diagnosing and treating persons with IDD to alleviate discomfort and suffering; and advocating for and with persons with IDD and their families within and across groups, communities, and society.

Nurses who practice in the specialty field of intellectual and developmental disabilities (IDD) have clinical expertise and experience pertaining to the illness-health continuum of care of individuals across the lifespan whose conditions meets the diagnostic criteria identified in the Developmental Disabilities Assistance and Bill of Rights Act of 2000 (Box 1). IDD nursing practice is based upon a family-centered and in later years, an individual-centered philosophy of care wherein the family (and when appropriate, the individual) are considered full partners in the development of the comprehensive plan of care. IDD nursing is comprehensive in scope and is focused on all aspects of the biopsychosocial needs of the person with IDD, their family, and their community, and the resources that are available to the person, family, and community.

Major biopsychosocial issues impacting individuals with IDD and of ongoing concern for IDD nurses and their interprofessional colleagues include:

- Primary, secondary and tertiary prevention of developmental disability (DD) and intellectual disability (ID)

- 220 • Community inclusion
- 221 • Transition from pediatric to adult DD services
- 222 • Expansion of services that promote independence beyond their 22nd birthday
- 223 • Access to high quality, community-based health care including a health home
- 224 • Provision of culturally relevant care across the spectrum of IDD nursing
- 225 • Health equity
- 226 • Social determinants of health
- 227 • Non-discrimination in educational and work settings

BOX 1.

Definition of Developmental Disability

Developmental Disabilities Assistance and Bill of Rights Act of 2000

DEVELOPMENTAL DISABILITY

(A) IN GENERAL. The term “developmental disability” means a severe, chronic disability of an individual that

- (i) is attributable to a mental or physical impairment or combination of mental and physical impairments;
- (ii) is manifested before the individual attains age 22;
- (iii) is likely to continue indefinitely;
- (iv) results in substantial functional limitations in 3 or more of the following areas of major life activity:

- (I) Self-care.
- (II) Receptive and expressive language.
- (III) Learning.
- (IV) Mobility.
- (V) Self-direction.
- (VI) Capacity for independent living.
- (VII) Economic self-sufficiency;

and (v) reflects the individual’s need for a combination and sequence of special, interdisciplinary, or generic services, individualized supports, or other forms of assistance that are of lifelong or extended duration and are individually planned and coordinated.

(B) INFANTS AND YOUNG CHILDREN. An individual from birth to age 9, inclusive, who has a substantial developmental delay or specific congenital or acquired condition, may be considered to have a developmental disability without meeting 3 or more of the criteria described in clauses (i) through (v) of subparagraph (A) if the individual, without services and supports, has a high probability of meeting those criteria later in life.

232

233 ***Description of the Scope of IDD Nursing Practice***

234

235 Nurse members of the American Association on Intellectual and Developmental Disabilities (AAIDD),
 236 Developmental Disabilities Nurses Association (DDNA), American Academy of Developmental Medicine
 237 and Dentistry (AADMD), and other professional nursing associations have deemed it important that
 238 there be a scope and standards of practice for this specialty. This document serves as the contemporary
 239 template for the practice of nursing in IDD and the standards of practice portion of this document serves
 240 as a description of the practice of nurses who specialize in this field.

241
242 IDD nurses help comprehensively manage the biopsychosocial needs of children and adults with IDD in a
243 wide array of health and community settings. IDD nursing is practiced in settings that may not be
244 relevant for other nursing specialties, such as early intervention programs; special education programs
245 in preschool, elementary, middle and high schools; postsecondary vocational programs; group homes;
246 mental health programs; and senior residential and support programs. IDD nurses serve as care
247 consultants for nursing specialties, nurse educators, nurse researchers, and interprofessional colleagues
248 when they work with individuals with IDD. IDD consultation efforts include assistance with the provision
249 of the care that addresses the unique care needs for patients with IDD who are hospitalized in tertiary
250 and sub-acute settings. IDD nurses can be consulted about the provision of referrals to available
251 resources and community services for those with IDD. IDD nurses can coordinate care and establish
252 wrap-around support networks from a wide array of resources, including clinics, hospitals, rehabilitation
253 facilities, schools, transportation, supported employment, mental and behavioral programs, and
254 housing. The uniqueness of IDD nursing is that IDD nurses complete care coordination that is complex
255 involving resources from a myriad of agencies and organizations that are not characteristically accessed
256 in clinical settings. Furthermore, IDD nurses recognize resources that are available through local, state,
257 regional, and national governing bodies.

258
259 The scope of IDD nursing practice is consistent with the 2015 ANA Scope and Standards of Practice
260 (2015a) which describes the “who,” “what,” “where,” “when,” “why,” and “how” of nursing practice.
261 The answer to each of these questions helps to provide a complete picture of the dynamic and complex
262 practice of IDD nursing. The definition of nursing answers the “what” of nursing practice question. IDD
263 nurses are registered nurses and advanced practice registered nurses “who” have been educated,
264 credentialed, and maintain active licensure to practice nursing. IDD nursing occurs “when” there is a
265 need for nursing knowledge, wisdom, caring, leadership, practice, or education that is specific to
266 persons with IDD and their families. IDD nursing occurs in any environment or setting “where” there is a
267 person with IDD in need of care, information, or advocacy. The “how” of IDD nursing practice is the
268 ways, means, methods, and manners that IDD nurses use to practice professionally. The “why” is
269 characterized as IDD nursing’s response to the changing needs of society to achieve positive healthcare
270 outcomes for persons with IDD aligned with nursing’s social contract with an obligation to society. The
271 full spectrum of the IDD nurse’s role in this specialty is described for both the registered nurse and
272 advanced practice registered nurse. The depth and breadth with which individual registered nurses and
273 advanced practice registered nurses engage in the total scope of IDD nursing practice for this specialty
274 depend on each nurse’s education, experience, role, and the population served.

275

276 **Specialty Practice in IDD Nursing**

277

278 All nurses will care for an individual with IDD sometime in their career. Each person with IDD is a person
279 first and each person’s healthcare needs are unique to that individual. It is also important that nurses
280 recognize that a person with IDD (a) is not unwell based on the diagnosis of a IDD, (b) does not
281 necessarily have all of the secondary conditions identified as common to the diagnosis (e.g., a person
282 with spina bifida does not always have hydrocephaly), and (c) experiences many of the same life events
283 (e.g., graduation, first job, etc.) and has the same feelings that all individuals have. It is important that
284 diagnostic overshadowing does not occur. Diagnostic overshadowing refers to attributing a health
285 problem to the person’s diagnosis of IDD. For example, an adolescent with hydrocephalus who arrives in
286 the emergency room with head banging behavior does not automatically have a shunt malfunction;
287 he/she could be in pain or have constipation (Reiss, Levitan, & Szyszko, 1982).

288

289 Registered nurses must be able to provide care to individuals with IDD, but in most nursing education
290 programs, the curricular content and clinical experiences related to the care of persons with IDD is
291 minimal. Nursing education about IDD should be encouraged. Nurses practicing as registered nurses,
292 both at the undergraduate and graduate level, must be able to provide holistic care to this population.
293 Many books, articles, videos, and Internet sites are available to assist in this learning. Additionally,
294 there are professional organizations such as the Developmental Disabilities Nurses Association (DDNA),
295 American Association on Intellectual and Developmental Disabilities (AAIDD) and American Academy of
296 Developmental Medicine and Dentistry (AADMD) that support continued development of the nurse
297 caring for those with IDD.

298
299 The registered nurse who specializes in IDD provides care to individuals across the lifespan. Care of the
300 persons with IDD should include families/legal guardian(s), particularly if youth are unable to make their
301 own decisions or actively participate in their own care, based on an understanding of the concepts and
302 strategies of nursing practice in this area. Decisions about healthcare plans for youth with IDD should be
303 made with the healthcare consumer and/or parents/guardian(s) as partners in the plan (Institute of
304 Medicine, 2001). IDD registered nurses, including APRNs, are included in an interprofessional team for
305 healthcare consumers with IDD and are responsible for the coordination of care and support for those
306 who have IDD. The IDD registered nurse participates in implementation of individual and family/legal
307 guardian(s)' assessment and in the planning, implementation, and evaluation of their health and health
308 services. along with the individual, family/legal guardian(s), and community support staff as partners
309 Decisions about the healthcare plans for youth with IDD should be made with the healthcare consumer
310 and/or parents/guardian(s) as partners in the plan's development and implementation (Betz, 2017; Betz,
311 Krajiček, & Craft-Rosenberg, 2018; SPN, NAPNAP, & ANA, 2015).

312
313 Additionally, all IDD registered nurses, have roles in the preparation of youth as they transition to adult
314 care. Recommendations for such preparations have been published by key organizations, including the
315 American Academy of Pediatrics (AAP), the American Academy of Family Physicians (AAFP), the
316 American College of Physicians (ACP) (AAP, AAFP, ACP-ASIM, 2002; Cooley, Sagerman, et al., 2011;
317 White, Cooley, et al. 2018) the American Society of Internal Medicine (Talente & LeComte, 2013), the
318 Society of Adolescent Medicine (Blum et al., 1993; Rosen, 2003), and position statements published by
319 the Society of Pediatric Nursing (SPN) (Betz, 2017) and the National Association of School Nurses
320 (2019a).

321 322 ***Development and Function of IDD Nursing Standards of Professional Practice***

323 The Standards of Professional Nursing Practice in IDD Nursing are authoritative statements of the
324 responsibilities that all registered nurses in this specialty are expected to perform competently (ANA,
325 2015a). These standards serve as evidence of the standard of care for IDD Nursing with the
326 understanding that their application depends on context. The standards of professional practice in IDD
327 nursing are subject to change as specific conditions and clinical circumstances change and new patterns
328 of professional practice are developed and accepted by the nursing profession and the public. These
329 standards will be formally and periodically reviewed and revised.

330 331 ***Standards of Professional Nursing Practice in IDD***

332 The Standards of Professional Nursing Practice in IDD include the Standards of Practice and the
333 Standards of Professional Performance in IDD.

334 335 ***Standards of Practice in IDD Nursing***

336 A competent level of IDD nursing care is demonstrated by the nursing process which includes
337 assessment, diagnosis, outcomes identification, planning, implementation, and evaluation. Consistent
338 with the ANA scope and standards of practice for nurses (2015a), IDD registered nurses engage in the
339 nursing process which is the foundation of the nurse's decision-making.

340

341 STANDARD 1. ASSESSMENT

342 The IDD registered nurse collects data related to the health and/or the situation of the person with IDD.

343

344 STANDARD 2. DIAGNOSIS

345 The IDD registered nurse analyzes the assessment data to determine the actual or potential diagnoses,
346 problems and issues of the healthcare consumer with IDD.

347

348 STANDARD 3. OUTCOMES IDENTIFICATION

349 The IDD registered nurse identifies expected outcomes for a plan that is individualized to the healthcare
350 consumer with IDD and/or the situation.

351

352 STANDARD 4. PLANNING

353 The IDD registered nurse develops a plan that prescribes strategies and alternatives to reach expected
354 measurable outcomes.

355

356 STANDARD 5. IMPLEMENTATION

357 The IDD registered nurse implements the identified plan.

358

359 STANDARD 5A. COORDINATION OF CARE

360 The IDD registered nurse coordinates care delivery that requires the nurse to work closely with
361 individuals with IDD, families, community resources and health systems.

362

363 STANDARD 5B. HEALTH TEACHING AND HEALTH PROMOTION

364 The IDD registered nurse uses strategies to promote health, prevention of secondary disability, and a
365 safe environment of individuals with IDD.

366

367 STANDARD 6. EVALUATION

368 The IDD registered nurse evaluates progress toward attainment of goals and outcomes of individuals
369 with IDD and their families.

370

371 ***Standards of Professional Performance in IDD Nursing***

372

373 The Standards of Professional Performance which describe a competent level of behavior for all
374 registered nurses in their role as a professional nurse apply equally to all IDD registered nurses in their
375 professional role activities. IDD registered nurses are expected to engage in professional role activities
376 that are appropriate to and consistent with their education and their position. As with all registered
377 nurses IDD registered nurses are accountable for their professional behavior to themselves, healthcare
378 consumers with IDD families/legal guardians of healthcare consumers with IDD, their professional peers,
379 and society (ANA, 2015a).

380

381 STANDARD 7. ETHICS

382 The IDD registered nurse practices ethically.

383

384 STANDARD 8. CULTURALLY CONGRUENT PRACTICE

385 The IDD registered nurse engages in practice that is congruent with cultural diversity and inclusion
386 principles, specifically as related to healthcare consumers with IDD and their families/legal guardians.

387

388 STANDARD 9. COMMUNICATION

389 The IDD registered nurse communicates effectively in a variety of formats in all areas of practice.

390

391 STANDARD 10. COLLABORATION

392 The IDD registered nurse collaborates with healthcare consumers with IDD, their families/legal
393 guardians, and other key stakeholders while engaging in nursing practice.

394

395 STANDARD 11. LEADERSHIP

396 The IDD registered nurse demonstrates leadership in professional practice settings and the profession.

397

398 STANDARD 12. EDUCATION

399 The IDD registered nurse acquires knowledge and attains competence that reflect current nursing
400 practice and promote futuristic thinking.

401

402 STANDARD 13. EVIDENCE-BASED PRACTICE AND RESEARCH

403 The IDD registered nurse integrates relevant and current evidence and research findings into
404 practice.

405

406 STANDARD 14. QUALITY OF PRACTICE

407 The IDD registered nurse contributes to quality nursing practice.

408

409 STANDARD 15. PROFESSIONAL PRACTICE EVALUATION

410 The IDD registered nurse evaluates one's own and others' nursing practice.

411

412 STANDARD 16. RESOURCE UTILIZATION

413 The IDD registered nurse utilizes appropriate resources to plan, provide, and sustain evidence-based
414 nursing services that are safe, effective, and fiscally responsible.

415

416 STANDARD 17. ENVIRONMENTAL HEALTH

417 The IDD registered nurse practices in an environmentally safe and healthy manner that promotes
418 environmentally safe settings that are beneficial to the health and well-being of individuals with IDD.

419

420 ***The Function of Competencies in IDD Nursing Standards***

421

422 The competencies accompanying each standard may be evidence of the IDD nurse's demonstrated
423 compliance with the corresponding standard; however, this list of competencies is not exhaustive. The
424 application of a particular standard or competency depends on the circumstances (ANA, 2015a).

425

426 **Integrating the Science and Art of IDD Nursing**

427

428 Like the profession of nursing, the nursing specialty of IDD is built on a core body of knowledge that
429 reflects its components of science and art. Nursing in IDD requires judgment and skill based on
430 biological, physical, behavioral, and social sciences. Nurses use critical thinking to apply the best
431 available evidence and research data when responding to the needs of individuals with IDD, evaluating

432 the quality and effectiveness of nursing practice and seeking to optimize outcomes for individuals with
433 IDD and their families/legal guardian(s) (ANA, 2015a).

434
435 Consistent with the profession of nursing, IDD nursing promotes the delivery of holistic care that is
436 centered on individuals with IDD and their families/legal guardians with the goals of optimal health
437 outcomes through the lifespan and across the health–illness continuum. This occurs in an environmental
438 context that acknowledges culture, ethics, law, politics, economics, access to healthcare resources, and
439 competing priorities. Similarly, IDD nursing promotes the health of communities by using advocacy for
440 social and environmental justice, community engagement, and access to high-quality and equitable
441 health care to maximize population health outcomes and minimize health disparities. IDD nursing
442 advocates for the well-being, comfort, dignity, and humanity of all individuals, families, groups,
443 communities, and populations. IDD nursing focuses on healthcare consumer and interprofessional
444 collaboration, sharing of knowledge, scientific discovery, and social welfare.

445 446 ***The What and How of IDD Nursing***

447 448 ***What Is IDD Nursing?***

449 IDD nursing is based on the definition of nursing which includes “...*the protection, promotion, and*
450 *optimization of health and abilities, prevention of illness and injury, facilitation of healing, alleviation of*
451 *suffering through the diagnosis and treatment of human response, and advocacy in the care of*
452 *individuals, families, groups, communities, and populations*” (ANA, 2015, p.11). **IDD nursing is defined as**
453 **protecting, promoting, and optimizing the health and functioning ability of persons with IDD;**
454 **diagnosing and treating persons with IDD to alleviate discomfort and suffering; and advocating for**
455 **and with persons with IDD and their families within and across groups, communities, and society.**

456
457 The integration of the art and science of nursing is described in the following detailed scope and
458 standards of practice content. IDD nurses have a strong foundation of knowledge and skills related to
459 the IDD diagnoses, treatments for IDD, and the provision of health care that is unique to persons with
460 IDD across their lifetimes. Additionally, IDD nurses understand child and adult development (normal and
461 delayed) as individuals with IDD have a condition that interferes with their ability to experience the
462 typical patterns of human development that affect their ability to learn and process information. The
463 person's developmental level may vary in terms of communication skills, ability to comprehend and
464 reason, and their life experiences that contribute to their differing responses. Individuals with IDD learn
465 differently than typically developing individuals. IDD nurses adapt healthcare procedures and processes
466 to meet the needs of persons with IDD and their families. These individuals may have a broad range of
467 cognitive and behavioral challenges that need to be understood and treated with respect by all
468 healthcare providers. For example, the IDD nurse helps individuals with IDD feel comfortable when they
469 are fearful during a medical examination or procedure. They may be fearful of being harmed that is a
470 different reaction as compared to typically developing individuals. IDD nurses also understand
471 behavioral challenges associated with IDD and know how to intervene appropriately so as not to
472 escalate challenges behaviors. The IDD nurse knows when to refer to specialized services such as GYN
473 and dental services needed.

474
475 IDD nurses are members of a healthcare team focused on the provision of interprofessional services that
476 are comprehensive in scope, as individual healthcare providers alone cannot assess, manage or evaluate
477 the full breadth of needs of the person with IDD. As a member of the IDD team, the nurse plans and
478 coordinates care with the individual, family and interdisciplinary providers. These interprofessional
479 providers include advocates, dietitians, occupational and physical therapists, primary and specialty care

480 physicians, social workers, special educators, speech and language specialists, who address the ongoing
481 and long-term needs of the individual and family members. IDD nurses understand and value each
482 profession's contribution to assessment, treatment and evaluation of the outcomes of a person with
483 IDD, with the family and individual at the center of any interprofessional evaluation or treatment.

484
485 Advanced advocacy skills and greater knowledge of resources is needed to ensure that persons with IDD
486 have their health needs identified, met, and move toward optimal health. Values such as respect of self
487 and others, individual dignity, and having personal choices are critical for persons with IDD to promote
488 their access to high quality health care. IDD nurses support individuals with the dignity of taking risk in
489 making choices pertaining to their health and other lifestyle decisions.

490 The advocacy role in IDD nursing practice is essential, as individuals with IDD and their families can face
491 extraordinary challenges in accessing health care and other services. IDD nurses advocate for the health
492 and well-being of persons with IDD and encourage persons with IDD and their families to advocate in
493 policy arenas for their health and a healthy environment. IDD nurses also advocate for policies that
494 promote healthy environments for those with IDD.

495 IDD nurses assess, implement and evaluate plans that keep those with IDD safe and connected
496 appropriately to medical care, health services (particularly specialty care as they transition to adult
497 care), and resources in the community including transportation, accessible and affordable housing, and
498 adequate food to live life to the fullest.

499 Five tenets characterize contemporary nursing practice (**ANA, 2015a**), and these are described here for
500 the IDD nurse.

501 ***Tenets Characteristic of IDD Nursing Practice***

502 1. Caring relationships and health promotion are central to the practice of the IDD registered
503 nurse.

504 The key focus of IDD nursing is caring for healthcare consumers with IDD, their families/legal
505 guardian(s), communities, and populations. A philosophy of family-centered care is the basis of IDD
506 nursing practice and evolves to an individual-centered philosophy of care in which the family and
507 individual with IDD (when appropriate) become full partners in health promotion.

508 2. IDD registered nursing practice is individualized.

509 IDD registered nurses individualize their care, respecting the diverse and unique needs of healthcare
510 consumers with IDD. The healthcare consumers with IDD are broadly defined as patients, persons,
511 clients, families/legal guardians, groups, communities, or populations with IDD who are the focus of the
512 IDD registered nurse's attention and to whom they provide services as approved by the state regulatory
513 bodies.

514 3. IDD registered nurses utilize the nursing process to plan and provide individualized care to
515 healthcare consumers with IDD.

516 When assessing, diagnosing, identifying outcomes, planning, implementing, and evaluating care, IDD
517 registered nurses use their knowledge of human experiences and responses, human development, and
518 health conditions and diagnoses that result in IDD to collaborate with healthcare consumers with IDD

519 and their families. The intent of IDD nursing interventions is to produce beneficial effects, contribute to
520 quality outcomes, and—above all—do no harm. IDD registered nurses evaluate the effectiveness of their
521 care in relation to identified outcomes and use evidence-based practice to improve care.

522 4. IDD registered nurses coordinate care by establishing partnerships.

523 The IDD registered nurses establish partnerships with persons with IDD, their families/legal guardian(s)
524 and support systems, and other providers to meet the health needs of persons with IDD and their
525 families. IDD nurses use communication methods that facilitate delivery of health care and meeting
526 health needs. IDD nurses recognize, understand, and respect the contributions and value of each
527 discipline's contribution to the health outcomes of persons with IDD.

528 5. A strong link exists between the professional work environment and the IDD registered nurse's
529 ability to provide persons with IDD quality health care and achieve optimal health outcomes.

530 IDD registered nurses have an ethical obligation to maintain and improve healthcare practice
531 environments conducive to the provision of quality health care (ANA, 2015b). Healthcare practice
532 environments should be safe, accessible, and facilitate participation by persons with IDD in their health
533 care to the fullest extent possible. When work environments do not support the provision of quality
534 health care and full participation by persons with IDD in their care, nurses will work to improve and
535 advocate for improved healthcare practice environments.

536

537 ***The How of Nursing***

538

539 The “how” of nursing practice is defined as the ways, means, methods, processes, and manner by which
540 the registered nurse practices professionally. The ways in which registered nurses practice reflect
541 integration of the five core practice competencies of all healthcare professionals: healthcare consumer-
542 centered practice, evidence-based practice, interprofessional collaboration, use of informatics, and
543 continuous quality improvement (ANA, 2015a; Institute of Medicine, 2003). Registered nurses recognize
544 that using a holistic approach requires incorporation of all relevant data when implementing the nursing
545 process. Such applies to the registered nurse specializing in IDD.

546

547 When incorporating a healthcare consumer and/or family-centered approach, the registered nurse who
548 specializes in IDD collaborates with and treats all healthcare consumers with the utmost respect. The
549 registered nurse demonstrates culturally congruent practice and advocates that healthcare consumers
550 have sufficient information and questions answered, enabling them to exercise their autonomy to make
551 the final decisions regarding their preferred care.

552

553 To achieve the best healthcare consumer outcomes, the “how” requires the registered nurse who
554 specializes in IDD to employ evidence-based practice as a means to incorporate the best available
555 evidence, healthcare consumer preferences, provider expertise, and contextual resources in which
556 nursing is delivered. Closely linked to the best healthcare consumer outcomes is the need for effective
557 interprofessional collaboration. Thus, an essential component of the “how” of registered nursing is care
558 coordination (ANA, 2013a), requiring effective communications by all stakeholders.

559

560 Additionally, the “how” of registered nursing practice includes predictable and comprehensive
561 communication using approaches such as informatics, electronic health records, and established system

562 processes to prevent errors. Methods may include SBAR or situation, background, assessment, and
 563 recommendation (The Joint Commission Enterprise, 2012) and evidence-based methods of teamwork
 564 and communication skill building such as TeamSTEPPS (Agency for Healthcare Research and Quality,
 565 n.d.; ANA, 2015a; Department of Defense, 2014).

566
 567 Critical to the practice of professional nursing is ethical conduct of research to generate new knowledge
 568 and translate that knowledge to practice using theory-driven approaches (Estabrooks, Thompson,
 569 Lovely, & Hofmeyer, 2006). Finally, the “how” of registered nursing practice reflects the manner in
 570 which the registered nurse who specializes in IDD practices according to the *Code of Ethics for Nurses*
 571 *with Interpretive Statements*, standards for professional nursing practice, institutional review boards’
 572 protocols, and directives of other governing and regulatory bodies that guide the conduct of
 573 professional nursing practice (ANA, 2015a).

574
 575 The ethical conduct of research that generates new knowledge and the translation of knowledge into
 576 practice using theory-driven approaches are critical to professional nursing practice (Estabrooks,
 577 Thompson, Lovely, & Hofmeyer, 2006). The *Code of Ethics for Nurses with Interpretive Statements*,
 578 standards for professional nursing practice, institutional review boards’ protocols, and directives of
 579 governing and regulatory bodies guide the “how” of registered nursing practice (ANA, 2015a).

580
 581 *Nursing’s Social Policy Statement: The Essence of the Profession* identifies the following statements that
 582 undergird professional nursing’s social contract with society and includes the registered nurse and
 583 advanced practice registered nurse who specializes in IDD (ANA, 2010, p. 6):

- 584
- 585 • Humans manifest an essential unity of mind, body, and spirit.
 - 586 • Human experience is contextually and culturally defined.
 - 587 • Health and illness are human experiences. The presence of illness does not preclude health, nor
 588 does optimal health preclude illness.
 - 589 • The relationship between the nurse and patient occurs within the context of the values and
 590 beliefs of the patient and nurse.
 - 591 • Public policy and the healthcare delivery system influence the health and well-being of society
 592 and professional nursing.
 - 593 • Individual responsibility and interprofessional involvement are essential.

594
 595 Consult *Nursing’s Social Policy Statement* (ANA, 2010) for discussion of other content important to
 596 understanding the societal context related to the decision-making and conduct of professional nursing
 597 practice.

598
 599 **The Art of Nursing**

600
 601 Nurses who specialize in IDD value all persons and believe that everyone, regardless of their abilities or
 602 limitations, deserve access to care and the highest quality of care. Nurses provide compassionate and
 603 competent patient care to individuals of all ages with IDD in a variety of settings. Nurses collaborate
 604 with individuals with IDD and their families/legal guardian(s) along with interprofessional colleagues and
 605 other stakeholders as necessary to meet or help meet the needs of individuals with IDD using a patient-
 606 centered care model.

607
 608 Optimal health for persons with IDD requires a holistic, caring, culturally sensitive, and interprofessional
 609 approach. IDD nurses possess unique skills in their comprehensive care of persons with IDD and their

610 families/legal guardian(s). These skills include sustaining long-term relationships based on trust,
611 communicating through verbal and nonverbal avenues, handling unpredictable behavior and situations,
612 developing plans of care that are both short- and long-term, and including a variety of individuals and
613 disciplines in planning such care (Appelgren, Bahtsevani, Persson, & Borglin, 2018; Jaques, Lewis,
614 O'Reilly, Wiese, & Wilson, 2018). Specifically, the nurse must be able to communicate effectively with
615 individuals with IDD who may have difficulty communicating through usual written or verbal channels
616 and understand and interpret the signs and cues sent by individuals with IDD to communicate their
617 needs and desires.

618

619 Nursing in IDD aims to modify the relationships between individuals with IDD and their environments as
620 needed to protect, promote, and optimize their health, healthy patterns of living, and quality of life.
621 Nurses specializing in IDD employ practices that are promotive, supportive, and restorative in nature.
622 Nurses are also involved in the facilitation of healing, alleviation of suffering; and transition to a dignified
623 and peaceful death for a person with IDD.

624

625 Because nursing includes the diagnosis and treatment of human responses to actual or potential health
626 problems and/or comorbid disabilities, nurses focus on modifying the impact of illness and/or disease
627 on individuals with IDD and aim to prevent further disability. When individuals with IDD have a disease
628 and illness, nurses should be careful to distinguish signs and symptoms of the disease and/or illness
629 from characteristics of the disability. This is especially important when an individual's disability
630 manifests in ways that are similar to a disease or illness. When planning and implementing care, nurses
631 may have opportunities to develop innovative and creative approaches to assure optimal and positive
632 outcomes for the individual with IDD and his or her family/legal guardian(s).

633

634 *Care and Caring in IDD Nursing Practice*

635

636 The relationship between the nurse, the person with IDD, and their family/legal guardian(s) builds on a
637 bond that is usually long-term, based on verbal and non-verbal communication, and mutual respect
638 recognizing strengths while helping to optimize limitations. Nurses support the right of individuals with
639 IDD to self-determination. That is, individuals with IDD have opportunities and experiences that enable
640 them to have control in their lives and to advocate for themselves [American Association on Intellectual
641 and Developmental Disabilities (AAIDD) Board of Directors, The Arc of the United States (ARC) Board of
642 Directors, & Chapters of the Arc, 2018]. Individuals with IDD learn skills and have experiences that
643 facilitate personal control over their health and lead to healthy choices. As self-advocates, individuals
644 with IDD should be heard, respected, and supported to fully participate in their own health care. Nurses
645 work to assure that individuals with IDD and their families/legal guardian(s) have the knowledge and
646 skills to engage in informed decision-making about health. Family members and substitute decision-
647 makers may need assistance in understanding the importance of self-determination and the limits that
648 self-determination can place on their own authority to make decisions, with and for the individual with
649 IDD.

650

651 Nurses (a) believe in individuals with IDD and their abilities to meet developmental and lifespan
652 milestones, (b) work to understand the meaning of health and health-related events from the
653 perspective of individuals with IDD and their families/legal guardian(s), (c) are emotionally present for
654 individuals with IDD and their families/legal guardians, (d) carry out health-related activities and tasks
655 for individuals with IDD and their families/legal guardian(s) when these persons cannot carry out these
656 activities and tasks themselves, and (e) support and facilitate transitions and unpredictable events
657 experienced by individuals with IDD and their families/legal guardian(s). Although persons with IDD

658 experience symptoms and experiences unique to their diagnosis and require specialized care, nursing
659 care often requires normal, age-related preventive care that is individualized for their special needs for
660 adaptation and accommodations.

661
662 Nurses should be mindful that the experiences of individuals with IDD in society may be those of
663 oppression and limitations on their ability to fully participate in their communities and be treated
664 equally. Health services such as routine gynecological care, mammograms, and preventive and
665 therapeutic dental services should be accessible to individuals with IDD. There should be a balance
666 between under-treatment – the limitations of treatment based on IDD diagnosis – and overtreatment –
667 the unwillingness to recognize when treatment is no longer beneficial. Nurses may have advocacy and
668 educator roles in the decision-making process with the individual with IDD, if capable; the family, if
669 appropriate; and others involved in the individual’s care.

670
671 Advances in assistive and medical technology contribute to improved health, functioning ability, and
672 quality of life in individuals with IDD. Assistive technology should benefit individuals with IDD by
673 improving their independence, mobility, communication, and ability to control their environments
674 (AAIDD, Arc, and Chapters of The Arc, 2018). Medical technology should be directed toward improving
675 the quality of life and relieving pain, isolation, fear, and physical discomforts. Individuals with IDD should
676 have the opportunity to accept or refuse services after they have been provided information and
677 assisted to understand the risks and benefits of services. When information cannot be provided in a way
678 that takes into account the communication and/or cognitive limitations of the individual with IDD to
679 ensure informed consent, then the individual’s advocate (i.e., legal guardian(s), health care power of
680 attorney, or surrogate decision maker) should be involved to assure that the individual’s demonstrations
681 of acceptance or refusal are respected and followed (AAIDD, Arc, and Chapters of The Arc, 2018;
682 Vanderbilt Kennedy Center for Excellence in Developmental Disabilities, 2018). Nurses should advocate
683 for a careful evaluation of the benefits and risks of a proposed treatment for an individual with or at risk
684 for IDD and not accept a categorical denial or plan to institute treatment based on another’s estimation
685 of the quality of life of the individual with or at risk for IDD.

686
687 Genetic and genomic advances promise both gains for and threats to individuals with IDD. Sometime in
688 the future, the basis for IDD may be identified and eventually “treated” with gene therapy. If this
689 technology evolves, there may be social pressure to submit to the treatment to ameliorate or eliminate
690 the disability, and even less tolerance for the spectrum of human difference. Some assume that if a
691 prenatal disability is detected, the mother (or parents) will choose to terminate the pregnancy. Nurses
692 respect the autonomous decisions of the mother but also grant that the mother’s decision may be
693 influenced by society’s response to individuals with IDD and tolerance for difference.

694
695 The IDD nurse must have advanced assessment skills to correctly identify issues related to the individual
696 with IDD’s health, chronological and mental age development in all domains, social relationships, and
697 activities of daily living. Such assessments are used for short- and long-term care planning and
698 implementation, regular evaluations, and consequent adjustments. Creativity, adaptations, patience,
699 and involvement from the individual with IDD, their family/legal guardian(s), and other disciplines are
700 required for optimal outcomes.

701
702 It is also important to note that nurses who specialize in this population are often stigmatized
703 themselves. Such misunderstanding comes from other nurses not involved in this specialty and even
704 other professionals in the field. Having a network of nurses working in the field through formal and
705 informal means is helpful for support and consultative input on difficult care situations.

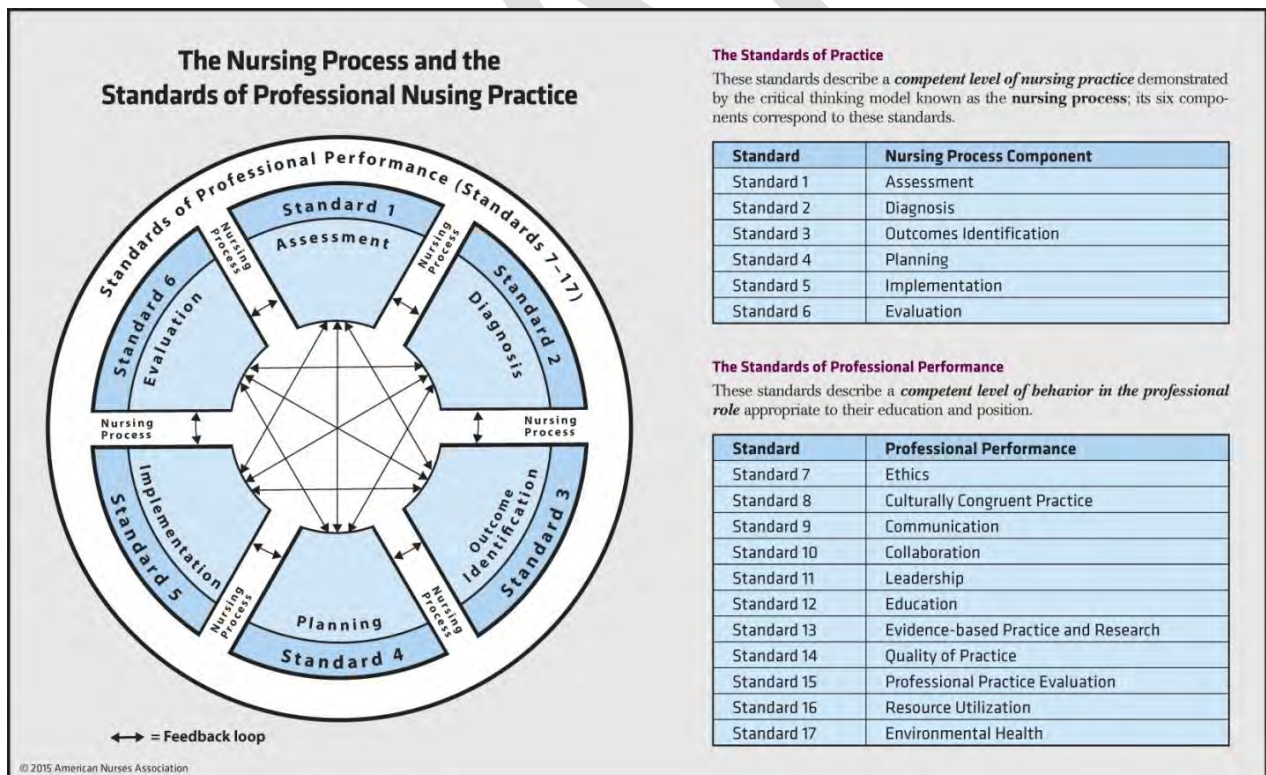
706
707 *Cultural Components of Care*
708

709 The nurse provides care to individuals with IDD and their families/legal guardian(s) in a manner that
710 reflects sensitivity to culture and varied expressions of care among all forms and types of cultures
711 (Leininger, 1988) and supports the implementation of caring processes built on Watson’s framework
712 (2012). Persons with IDD are a minority culture in which positive and negative behaviors and opinions
713 are found by other persons and cultures, and these have existed across time. Our understanding of
714 cultural literacy must go beyond race, and encompass all forms of culture, including persons with IDD.
715

716 **The Science of Nursing**

717
718 Both qualitative and quantitative research has been conducted to identify and describe conditions
719 resulting in IDD, to detail best practices in the treatment of primary and comorbid conditions across the
720 lifespan, and to develop policy and procedures for optimal care of persons with IDD. Nurses have been
721 involved in such research over the years through their own original studies as well as the translation of
722 research findings in their practice.
723

724 Nurses use the nursing process in their care of persons with IDD. The six stages of assessment, diagnosis,
725 outcomes identification, planning, implementation, and evaluation are illustrated in Figure 1. As noted
726 in the figure, this process is dynamic and cyclic.
727



728
729
730 There are two sets of standards represented in this figure: Standards of Practice and Standards of
731 Professional Performance. The Standards of Practice are aligned with the six steps of the nursing
732 process. The Standards of Professional Performance are evident across the nursing process and the

733 nurse's practice. As both sets of standards are universal to nursing practice, they will be specified in this
734 document for the nurse specializing in IDD.

735

736 **When Nursing Occurs**

737

738 The nursing care of persons with IDD takes place in all settings in which nurses are employed. The
739 settings in which nurses often interact with persons with IDD are in various healthcare settings, school-
740 based settings, community-based facilities, work sites, and large regional developmental centers. The
741 relationships between the nurse and the person with IDD often last many years.

742

743 The health care needs of persons with IDD may not correlate with the normal population as far as
744 typical developmental and physiological changes. Brown (2016) provides an excellent discussion of the
745 nurse's role and knowledge base in IDD nursing. She focuses on the nurse's primary functions of
746 prevention; continual assessment, care, and evaluation of health needs; and coordination of services
747 and supports across the lifespan. Brown discusses the nurse's need to deliver care and education and
748 always be an advocate for the individual with IDD and their family members/legal guardians. The roles
749 and responsibilities of IDD nurses were discussed in two recent literature reviews (Appelgren,
750 Bahtsevani, Persson, & Borglin, 2018; Jaques, Lewis, O'Reilly, Wiese, & Wilson, 2018). The major
751 distinctions between the care of persons with IDD and those without concerned communication;
752 person-centered comprehensive care; long-term relationships; caring for physical, intellectual, and
753 behavioral issues; advocacy; and stigmatization.

754

755 The care of persons with IDD is retrospective, current, and prospective and should involve the person
756 with IDD, their family/legal guardian(s), and an interprofessional team. The membership of the team will
757 change as the person with IDD ages or moves. It is a commitment across the person's lifespan to
758 anticipate needs and problems, reduce or eliminate problems in the present time, and regularly
759 evaluate identified needs and problems retrospectively in order to better address such needs and
760 problems in the future. Everyone is an individual and not all solutions are uniform. In this population,
761 state and national legal and ethical ramifications for care, including education, work, and residential
762 must be considered. It is important that anticipatory guidance is identified and described across the
763 lifespan for conditions resulting in IDD. Much is known about these conditions during the pediatric
764 years, but less is known and documented in the literature for the adult years and at end-of-life.

765

766 **IDD Nursing Knowledge**

767

768 IDD nursing knowledge is best described through a historical perspective. This section provides a
769 summary of the history of education of nurses and nursing care in this specialty.

770

771 Early education for nurses who specialized in the care of persons of any age who had IDD occurred in
772 general nursing hospital schools and in asylums and institutions; however, the term IDD was not used
773 until the mid-20th century. Until the early 20th century, persons with IDD were diagnosed as having
774 mental illness and their care took place in settings where persons with all forms of mental illness were
775 housed. After WWI a better understanding of mental illness occurred, and the care of persons with IDD
776 as we now know it was more specifically detailed. Terminology at that time included *idiot* and *imbecile*.

777

778 In the early 1960s, President Kennedy brought needed attention to the living conditions of persons of all
779 ages with IDD, then called *mental retardation*. New legislation was introduced, and for the first time,
780 funding became available for this population. Large institutional settings remained the primary place of

781 residence for persons of all ages with IDD until the late 1960s. It was the social norm to place newborns
782 and children with known conditions resulting in IDD in institutions as soon as possible so as not to
783 burden families, either financially or through social stigma.

784

785 After public attention to the custodial and often inhumane care of persons with IDD in the early 1970s,
786 radical changes took place. Many individuals with IDD were moved back to their homes and to newly
787 formed community settings, such as group homes, semi- independent living arrangements (SILAs), and
788 smaller congregate settings (e.g.,16 beds). The transition from institutional to community living
789 continues to vary, state by state.

790

791 Today, newborns with IDD are no longer placed in institutional settings. Most individuals with IDD live
792 with their families in the community. Others live in small-group community settings. Only the most
793 severely affected individuals who require substantial medical care remain in larger developmental
794 centers (Nehring, 1999; Nehring & Lindsey, 2016).

795

796 IDD nursing care has also evolved through time. Early documentation about nursing care was written
797 either by physicians or nurses who cared for both persons with IDD and mental illness. Literature by
798 nurses about the nursing care of persons with IDD first appeared with any frequency in the 1950s. At
799 that time, nurses in institutional settings did little more than give medications and record vital signs and
800 occasional weights. Some public health nurses provided care for children with IDD who remained at
801 home; however, parents were often encouraged to enroll their children in institutions by the time they
802 reached school age.

803

804 The first national meeting for nurses specializing in the care of children with IDD was sponsored by the
805 Children's Bureau in 1958 (Nehring, 2010). In the 1960s, nursing care in the institution resembled
806 nursing care provided in hospitals. The role of the nurse expanded to include education and research.
807 Advanced practice registered nurses were employed by some institutions, and post-baccalaureate and
808 graduate programs emerged to provide education designed especially for the care of children and
809 adolescents with IDD. Interdisciplinary faculty (including nurses) at university-affiliated programs and
810 facilities (UAPs or UAFs) established by President Kennedy in universities across the country, offered
811 interdisciplinary education to future specialists (including nurses) in the field; conducted research on
812 topics related to mental retardation; and provided health and social services to individuals with IDD and
813 their families.

814

815 In the 1960s, nurses began to write more prolifically about the care of children with IDD conditions. The
816 increased numbers of articles and books, some of which are now considered classics, were especially
817 useful for public health nurses. Developmental diagnostic clinics were established across the country to
818 identify and refer children with IDD for developmental and health care when appropriate. Nursing
819 consultants who specialized in this field were hired by the Children's Bureau; Division of Neurological
820 Diseases and Stroke, U.S. Public Health Service; Mental Retardation Division, Department of Health,
821 Education, and Welfare; Association of Retarded Children; and the United Cerebral Palsy Associations,
822 Inc. National meetings were convened for these nursing specialists and the first standards of nursing
823 practice for this specialty emerged in 1968, *The Guidelines for Nursing Standards in Residential Centers
824 for the Mentally Retarded* (Haynes, 1968; Nehring,1999, 2010).

825

826 The 1970s saw the first national education legislation, mandating that all children with IDD receive a free
827 and appropriate public education from the ages of 3 through 21 years. During that period, school nurses
828 sought education and resources about IDD nursing, and IDD nursing was soon included in the Scope and

829 Standards of Practice for school nursing. Advanced practice roles for nurses in the IDD specialty
830 continued to expand, including roles in schools and early intervention programs for the infant from birth
831 to three years of age.

832
833 Publications and regular national and regional meetings about IDD nursing continued throughout the
834 1970s. Special IDD nursing courses also began to appear in nursing programs across the country (Hahn,
835 2003; Nehring, 1999, 2010). The term *developmental disabilities* were first introduced during the Nixon
836 presidency to describe conditions similar to those defined as mental retardation but that differed
837 slightly. Interdisciplinary care was the norm in the 1980s, when all disciplines worked together with
838 individuals and family members of those with IDD to assess and plan care in a variety of settings
839 (Nehring, 1999; Nehring & Lindsey, 2016). In 1980, the American Nurses Association published *School*
840 *Nurses Working with Handicapped Children* (Igoe, Green, Heim, Licata, MacDonough, & McHugh,
841 1980). Later in the 1980s, two sets of standards of nursing practice for nurses specializing in this field
842 emerged: *Standards of Nursing Practice in Mental Retardation/Developmental Disabilities* (Aggen &
843 Moore, 1984) and *Standards for the Clinical Advanced Practice Registered Nurse in Developmental*
844 *Disabilities/Handicapping Conditions* (Austin, Challela, Huber, Sciarillo, & Stade, 1987).

845
846 Emphasis on the adult with IDD emerged in the nursing literature in the 1990s. An examination of the
847 individual with IDD across the lifespan was first highlighted in *A Life-Span Approach to Nursing Care for*
848 *Individuals with Developmental Disabilities* (Roth & Morse, 1994). Nursing standards for this field were
849 also revised: *Standards of Developmental Disabilities Nursing Practice* (Aggen, DeGennaro, Fox, Hahn,
850 Logan, & VonFumetti, 1995) and *Statement on the Scope and Standards for the Nurse Who Specializes in*
851 *Developmental Disabilities and/or Mental Retardation* (Nursing Division of the American Association on
852 Mental Retardation and American Nurses Association, 1998). Other related standards of nursing practice
853 in early intervention (ANA Consensus Committee, 1993), care of children and adolescents with special
854 health and developmental needs (ANA Consensus Committee, 1994), and genetics (ISONG & ANA, 1998)
855 were issued as well.

856
857 In the first years of the 21st century, a greater effort was made to provide educational materials for
858 nursing students and nurses in practice who care for persons of all ages with IDD (Betz & Sawin, 2018;
859 Hahn, 2003; Nehring, 2005). However, IDD nursing remains an area where nursing students in general
860 receive little information about or clinical experience with persons who have IDD. Concentrated efforts
861 by nursing experts in the field and national organizations, such as the American Association on
862 Intellectual and Developmental Disabilities and the Developmental Disabilities Nurses Association, to
863 establish standards for IDD nursing education, should persist.

864
865 This specialty field of nursing has changed greatly from its early years. As the healthcare system
866 continues to evolve, so will the nursing care of persons with IDD of all ages. Such care continues to occur
867 in a variety of settings and at both the professional registered nurse and advanced practice registered
868 nurse levels. Continued publication and research into such nursing care are needed, as are additional
869 didactic and clinical content materials for nursing students.

870

871 **Research in IDD Nursing**

872

873 Nurses have faced a myriad of challenges in researching the IDD population over the years that include
874 societal changes, laws affecting education, Institutional Review Board approval for this vulnerable
875 population, and research expertise in those nurses working in the field. These factors have resulted in
876 difficulty in obtaining data for the development of evidence-based IDD nursing interventions. There is

877 clearly a need for consistent nursing education, nursing management, and more research in the field of
878 IDD nursing (Auberry, 2018).

879
880 There have been champions of IDD healthcare who have accomplished research in the field, which IDD
881 nurses can use base future research. Dorothea Dix is thought to be the first leader in IDD nursing.
882 Although Dix was not a nurse, she is viewed by many as being instrumental in the development of IDD,
883 public health, and mental health nursing (Nehring, 1999). Using her careful observations of the living
884 conditions of individuals with IDD, Dix made many appeals for more hygienic buildings for individuals
885 with IDD and mental illness, and some of her efforts met with success (Dix, 1847). For example, she
886 spoke to the Massachusetts legislature in 1843 about the conditions of jails, asylums, and almshouses in
887 Massachusetts (Dix, 1976). Consistent with Florence Nightingale’s call for nurses to use their
888 observations to bring about change (Nightingale, 1859), Dix used her observations to inform and
889 influence legislators to improve the living conditions of individuals with IDD (Nehring, 1999; 2010).

890
891 In the 1960s, nurses began conducting and publishing their research about individuals with IDD. These
892 early nurse researchers relied on models, research findings, and/or research methods from the fields of
893 education, medicine, physical therapy, cognitive and developmental psychology, psychiatry, public
894 health, speech therapy, and sociology. Miller (1979) described a program that was implemented from
895 1962 through 1964 to teach personnel in the Central Wisconsin Colony and Training School to provide
896 speech and physical therapy to residents. Pat McNelly (1966) conducted a study that “was a precursor
897 to the development of the transdisciplinary model of care delivery” (Nehring, 1999, p. 79). A cross-
898 disciplinary project, the Mimosa Project, was funded to teach adolescent girls with IDD daily living skills
899 (Devine, 1983). Barclay, Goulet, Holtgrewe, and Sharp (1962) examined parents’ evaluations of the clinic
900 services provided to their children with IDD. By 1970, many studies related to IDD had been or were
901 being carried out by nurses, and graduate students in nursing programs were focusing their dissertation
902 research on IDD. Between 1970 and 2019, more than 200 nursing dissertations related to IDD were
903 completed.

904
905 Nurses contribute to research and scholarly work related to IDD across the lifespan. Two nurses who are
906 well recognized for their work in developmental disabilities focused their work on infants and children
907 with or at risk for IDD. Una H. Haynes, a committed nurse who made many contributions to the field of
908 developmental disabilities, was on the national staff team of the United Cerebral Palsy Associations, Inc.
909 and is credited with developing the transdisciplinary approach to early intervention for infants with
910 developmental disabilities (Haynes, 1974). Kathryn Barnard began her work with children with IDD
911 (Barnard, 1966, 1968). She developed the Nursing Child Assessment Satellite Training (NCAST) and was
912 an advocate for prevention in nursing and mental health. Scales that have been widely used to assess
913 parent–infant interactions (Sumner & Spietz, 1994). A third nurse, Cecily Betz, has dedicated her life
914 work to the conceptual understanding of transitions in care for persons with IDD (e.g., Betz, Nehring, &
915 Lobo, 2015; Mahan, Betz, Okumura, & Ferris, 2017).

916 917 **Evidence Based Practice in IDD Nursing**

918
919 Just as nursing research has evolved and developed across the profession, nursing research in IDD has
920 evolved and continues its development, including an emphasis on evidence-based practice.
921 Quantitative, qualitative, and mixed-methods studies are conducted across the lifespan using nursing
922 and non-nursing theories. Nurses working in the field of IDD have long recognized the importance of
923 interprofessional collaboration in practice. Likewise, interprofessional collaboration is essential for many
924 nursing research activities, including the identification and implementation of evidence-based practice

925 related to IDD.

926

927 Nurse researchers have focused their research on specific conditions that result in or are associated
928 with IDD, roles and responsibilities of nurses working in this field, families/legal guardians and family-
929 centered care, and education of nurses and others about IDD. Nehring (1999) called for research that
930 (a) evaluates programs and services provided to individuals with IDD; (b) examines adult health care,
931 adult development, and the educational needs of caregivers across the lifespan of individuals with IDD;
932 (c) explores issues related to genetics; and (d) explores the perspectives of individuals with IDD and their
933 families/legal guardians that need to be addressed by nurses. Such research remains relevant, as Betz
934 and Sawin (2018) echoed these research needs and added better understanding and practice models for
935 care coordination across the lifespan. In addition, new challenges related to the complexities of health
936 care and demands for healthcare reform also require attention. For example, the National Association of
937 School Nurses has published evidence-based position statements related to children with special
938 healthcare needs (e.g., *Chronic Health Conditions (Students with): The Role of the School Nurse*, 2017;
939 *The Role of the 21st Century School Nurse*, 2018; and *Transition Planning for Students with Chronic*
940 *Health Conditions*, 2014). Nurse researchers should examine nursing practice in IDD to demonstrate that
941 staffing is adequate to ensure quality care for individuals with IDD and their families/legal guardians.
942 Consistent with the call for continual evaluation of nursing practice, as stated in Nursing's *The Code of*
943 *Ethics for Nurses with Interpretive Statements* (ANA, 2015), ongoing evaluation of patient outcomes and
944 learning needs of nurses working with individuals with IDD and their families/legal guardians, and
945 dissemination of information to address these outcomes and needs, are critical.

946

947 **The Where of Nursing Practice**

948

949 Nurses care for persons of all ages with IDD in any environment or setting. A few salient examples follow
950 to illustrate the breath of settings and environments. By the 1950s, many infants born with an
951 intellectual and/or developmental disability were institutionalized. Many times, the mother was told
952 that her newborn had died since she was unconscious during birth and the father signed away the
953 parental rights and kept the secret. With deinstitutionalization and federal and state law changes
954 beginning in the 1960s and 1970s, infants and children with IDD stayed at home and were able to attend
955 school. Today, home health care, school-based care, post-acute care, assisted living and long-term care
956 facilities, and community-based living, faith communities, outpatient, and ambulatory settings are
957 standard settings for care, yet developmental centers for individuals with severe IDD still exist. The care
958 of persons with IDD in each of these settings require the services of nurses. This evolution has greater
959 importance as transitions in care, cost reduction measures, financial penalties for adverse outcomes,
960 and healthcare reform initiatives materialize.

961

962 Nurses specializing in IDD may be employed in colleges and universities as faculty or practicing nurses,
963 nurse practitioners, or administrators of nurse-managed clinics or school health centers. There is a
964 scarcity of nursing faculty and scholars with IDD as their area of expertise and scholarship focus. When
965 present, they are often employed at universities that are designated as University Centers of Excellence
966 in Developmental Disabilities (UCEDD).

967

968 Technological advances for persons with IDD have allowed them to live more integrated lives and
969 provide another area where nurses can use entrepreneurial skills in new roles. Nurses will play active
970 roles in accessing needed technology for their patients, adapting it for their optimal use, evaluating it for
971 continued use, and developing their own ideas for use by persons with IDD.

972

973 The IDD nurse plays an active advocacy role in the facilitation of full integration of persons with IDD into
974 all aspects of community and residential settings to their optimal level of functioning. Advocacy and a
975 commitment to community integration with optimal individual functioning are key characteristics of
976 nurses working on behalf of people with IDD and their families/legal guardians. From advocacy with
977 legislatures at the state and national levels to individual advocacy supporting choice and self-
978 determination for the individual with IDD, nurses in the specialty are passionate about the population
979 and about achieving social justice for them. Assisting an individual with IDD to transition from an
980 institutional setting into a less restrictive setting, such as their own home or a supervised apartment or
981 group home; to obtain quality health care, identifying and responding to allegations of abuse; and aiding
982 in healthcare decision-making by supporting the individual or identifying a surrogate are all crucial areas
983 for advocacy intervention.

984
985 Though there are many challenges in the care of persons of all ages with IDD, such as communication
986 difficulties, multiple comorbid conditions, public ignorance, and societal prejudice, there are also many
987 rewards. Learning about and working with this population, for whom significant health disparities have
988 only recently been identified, can enlighten and add meaning to nursing practice and personal life.
989 Nurses learn to appreciate individual strengths and assist the individuals to cope and function in spite of
990 their limitations while caring for preventive and specific health needs.

991

992 ***Healthy Work Environments for Nursing Practice***

993 Characteristics of IDD Nursing Practice Tenet #5 explicitly states that “a strong link exists between
994 professional work environment and the IDD registered nurse’s ability to provide quality health care and
995 achieve optimal outcomes” (Nehring et al. 2013). The ANA Scope and Standards of Practice 3rd Edition,
996 states that “all must be mindful of the health and safety of both the healthcare consumer and the
997 healthcare worker in any setting, providing a sense of safety, respect, and empowerment to and for all
998 persons” (2015, p. 27). Several models of healthy work environments have been recognized and
999 supported by the ANA. These models are universal and can be adapted to IDD nursing practice.

1000 Safe Patient Handling and Mobility (SPHM)

1001 Individuals with intellectual disability possess various levels of thinking, reasoning, planning, and
1002 problem solving placing them at greater risk for safety issues. IDD nurses must be equipped to identify
1003 and manage potential harmful situations for both the individual with IDD and the nursing staff. Safe
1004 patient handling begins with trust and communication appropriate to the level of the patient with IDD
1005 and/or the caregiver. This is especially crucial when individuals with IDD become even more vulnerable
1006 when hospitalized or removed from a familiar setting. A sample Toolkit for Primary Care Providers on
1007 communicating effectively with individual’s with IDD is available at
1008 <http://iddtoolkit.vkcsites.org/general-issues/communicating-effectively/>. IDD nurses should also be
1009 trained in responding to and reporting abuse that so highly occurs among people with IDD, especially
1010 women and children (Byrne, 2018). Additionally, aggressive behavior toward staff is a concern.

1011 In 2013, the ANA along with other professional organizations established eight Evidenced-based
1012 Standards for Safe Patient Handling and Mobility to be used in any health care setting, including

1013 residential living where many individuals with IDD may reside. While these apply to the general
1014 population they can and should be adapted to nurses caring for those with IDD.

- 1015 1. Establishing a culture of safety, which includes ensuring safe levels of staffing, creating a non-
1016 punitive environment, and developing a system for communication and collaboration. For
1017 patients with IDD, this may include the use of auxiliary aids/services such as;
- 1018 • Sign language interpreters
 - 1019 • Braille materials
 - 1020 • Simplified language documents
 - 1021 • Computer Assisted Real Time text (CART)
 - 1022 • Large print documents
- 1023
- 1024 2. Implementing and sustaining a safe patient handling and mobility program specific to the needs of
1025 the individual with IDD and their
1026 caregiver;
- 1027
- 1028 3. Incorporating ergonomic design principles to provide a safe environment of care;
- 1029
- 1030 4. Selecting, installing and maintaining safe patient handling technology;
- 1031
- 1032 5. Establishing a system for education, training and maintaining competence;
- 1033
- 1034 6. Integrating patient-centered assessment, care planning and technology;
- 1035
- 1036 7. Including safe patient handling in reasonable accommodations and post-injury return to work
1037 policies; and
- 1038
- 1039 8. Establishing a comprehensive evaluation system.

1040
1041 Fatigue in Nursing Practice

1042
1043 IDD nurses have a responsibility to maintain their own health and well-being in order to perform at
1044 their highest level of competence. In 2017, the ANA launched the Healthy Nurse Healthy Nation
1045 campaign that promotes nutrition, stress control, sleep health and fatigue prevention (ANA, 2017). In
1046 2017, the American Academy of Nursing released a position statement entitled Reducing Fatigue
1047 Associated with Sleep Deficiency and Work Hours in Nurses that included the following recommended
1048 actions (Caruso, et al., 2017, p. 767):

- 1050 • Urge nurses and employers of health care organizations to educate themselves about the health
1051 risks linked to shift work and long work hours and the evidence-based strategies to reduce those
1052 risks.
- 1053 • Urge employers of health care organizations to incorporate evidence-based practices in the
1054 design of their employees' work schedules and establish policies, programs, practices, and
1055 systems at work that promote sleep health and an alert workforce.
- 1056 • Urge employers to promote a workplace culture that promotes sleep health to achieve optimum
1057 functioning, health, safety, and sense of well-being of their workforce.
- 1058 • Encourage employers to recognize the role of shift work, long shifts, and nurse fatigue on
1059 turnover, absenteeism, patient safety, and related costs.

- 1060 • Urge experts to develop additional continuing education courses for nurses and nursing
1061 managers that relay evidence-based personal practices and workplace interventions to
1062 maximize sleep health and alertness in nurses.
- 1063 • IDD nurses have an ethical responsibility to take these actions, as well as report to work alert,
1064 well-rested, and prepared to give safe, quality patient care (ANA, 2015b; ANA, 2014).

1065 Workplace Violence and Incivility

1066 Healthcare workers and healthcare support personnel experience a higher amount of serious
1067 workplace violence than other private industries averaging 7.8 cases per 10,000 full-time employees in
1068 2013 (US Department of Labor, OSHA, 2015). This is almost 400 percent more cases than other sectors
1069 of industry including manufacturing, construction, and retail. Workplace violence, bullying, and
1070 incivility may come from clients, co-workers, administration, and support personnel, and it is believed
1071 to be vastly under-reported (OSHA, 2015). Risk factors include: a) working with people who have a
1072 history of violence; b) working alone; c) poor environmental design d) lack of means for communicating
1073 an incident or emergency; e) lack of training and policies, f) understaffing, high turnover rate g) working
1074 in high crime areas; h) lifting, moving, and transporting clients; i) lack of funding for mental health
1075 services; j) the perception that violence is tolerated; and, k) a fear of repercussions for reporting (OSHA,
1076 2015).

1077 Those who work with clients with IDD may also experience issues with role ambiguity, poor social
1078 support, and poor organization of work settings which may lead to workplace bullying and incivility
1079 (Figueiredo-Ferraz et. al, 2012). Additionally, many caregivers consider that violence may be a part of
1080 the job because injuries caused by clients are often unintentional (OSHA, 2015).

1081 Prevention of workplace violence and incivility includes identifying the risk factors specific to the work
1082 environment and developing strategies to reduce the incidence of the violence. Nurses, including
1083 nurses who specialize in IDD, must advocate for safe work environments, training, and policies that
1084 address workplace violence, bullying, and incivility (ANA, 2015).

1085 Optimal Staffing

1086 Nurses working with clients with IDD practice in a variety of settings including community settings,
1087 homes (family, individual and group), long-term care facilities, outpatient and ambulatory settings,
1088 psychiatric and rehabilitation facilities, faith-based communities, home health, correctional facilities,
1089 assisted-living homes, schools, and hospitals. Optimal staffing should be based on client needs and
1090 should support individuals with IDD to function to their full potential in a safe, efficient, and meaningful
1091 way (Bigby & Beadle-Brown, 2018). Staffing should accommodate the client's physical, emotional,
1092 spiritual, and social needs and allow for self-determination, empowerment, and community. IDD
1093 nurses should advocate for safe staffing models that support team-based care and consider principles
1094 that improve work environments and improve outcomes of clinical care (ANA, 2015).

1095 The ANA Principles of Nurse Staffing (2012) Need to reference new 2019 edition includes a framework
1096 to assist nurses to consider principles related to healthcare consumers, registered nurses and other
1097 staff, organization and workplace culture, the practice environment, and staffing evaluation in order to
1098 provide optimal staffing. Staff levels should reflect careful planning according to client complexity and
1099 acuity, professional nurse and staff expertise, the physical layout, and the availability of resources and
1100 technical support (Kane, Shamilyan, Mueller, Duvall, & Wilt, 2007; Needleman, 2015). IDD nurses must
1101

1108 advocate for a culture of safety. When work environments do not promote safety and health as a
 1109 priority, employees will not be able to provide error-free care (OSHA, 2015). Unhealthy work
 1110 environments also lead to higher rates of staff absenteeism, higher turnover rates, and burnout.

1111

1112 ***Supports for Healthy Work Environments***

1113

1114 ANA supports the following models of healthy work environment design. These concepts apply to the
 1115 healthy work environments of IDD nursing practice as well.

1116

1117 ***American Nurses Association***

1118

1119 The initial ANA Healthy Nurse™ framework began in 2009. The definition and constructs are as follows:

1120 ANA defines the healthy nurse as

1121 ...one who actively focuses on creating and maintaining a balance and synergy of physical,
 1122 intellectual, emotional, social, spiritual, personal and professional well-being. Healthy nurses live
 1123 life to the fullest capacity, across the wellness–illness continuum, as they become stronger role
 1124 models, advocates, and educators, personally, for their families, their communities and work
 1125 environments, and ultimately for their patients. (ANA, 2013b).

1126

1127 The five Healthy Nurse™ constructs include:

- 1128 • Calling to Care: Caring is the interpersonal, compassionate offering of self by which the healthy
 1129 IDD nurse builds relationships with IDD patients and their families, while helping them meet
 1130 their physical, emotional, and spiritual goals, for all ages, in all healthcare settings, across the
 1131 care continuum.

1132

- 1133 • Priority to Self-Care: Self-care and supportive environments enable the healthy IDD nurse to
 1134 increase the ability to effectively manage the physical and emotional stressors of the work and
 1135 home environments.

1136

- 1137 • Opportunity to Role Model: The healthy IDD nurse confidently recognizes and identifies
 1138 personal health challenges in themselves and their IDD patients and families/legal guardians,
 1139 thereby enabling them and their IDD patients to overcome the challenge in a collaborative,
 1140 non-accusatory manner.

1141

- 1142 • Responsibility to Educate: Using non-judgmental approaches, considering adult learning
 1143 patterns and readiness to change, the healthy IDD nurse empowers themselves and others by
 1144 sharing health, safety, wellness knowledge, skills, resources, and attitudes.

1145

- 1146 • Authority to Advocate: The healthy IDD nurse is empowered to advocate on numerous levels,
 1147 including personally, interpersonally, within the work environment and the community, and at
 1148 the local, state, and national levels in IDD policy development and advocacy.

1149

1150 Characteristics of IDD Nursing Practice Tenet #5 explicitly states that “a strong link exists between
 1151 professional work environment and the IDD registered nurse’s ability to provide quality health care and
 1152 achieve optimal outcomes” (Nehring, Natvig, Betz, Savage, & Krajicek, 2013, p.20).

1153

1154 The ANA Scope and Standards of Practice 3rd Edition (2015a), states that “all must be mindful of the
 1155 health and safety of both the healthcare consumer and the healthcare worker in any setting, providing

1156 a sense of safety, respect, and empowerment to and for all persons” (p 27). Several models of healthy
 1157 work environments have been recognized and supported by the ANA. These models are universal and
 1158 can be adapted to IDD nursing practice.

1159

1160 ***American Association of Critical Care Nurses Standards***

1161

1162 Seminal work by the American Association of Critical Care Nurses (AACN) has identified six standards
 1163 that must be in place to establish and maintain healthy work environments (AACN, 2016):

1164

- 1165 • Skilled Communication: Nurses must be as proficient in communication skills as they are in
 1166 clinical skills.
- 1167 • True Collaboration: Nurses must be relentless in pursuing and fostering true collaboration.
- 1168 • Effective Decision-Making: Nurses must be valued and committed partners in making policy,
 1169 directing and evaluating clinical care, and
 1170 leading organizational operations.
- 1171 • Appropriate Staffing: Staffing must ensure the effective match between patient needs and nurse
 1172 competencies.
- 1173 • Meaningful Recognition: Nurses must be recognized and must recognize others for the value
 1174 each brings to the work of the organization.
- 1175 • Authentic Leadership: Nurse leaders must fully embrace the imperative of a healthy work
 1176 environment, authentically live it, and engage
 1177 others in its achievements.

1178

1179 The environments where IDD nurses’ practice are varied and complex. Yet these six standards can be
 1180 universally applied. A quality healthcare environment can be achieved by aligning IDD nurse
 1181 competencies to patient needs within the context of these six standards.

1182

1183 ***High-Performing Interprofessional Teams***

1184

1185 Individuals with IDD often have complex and chronic conditions requiring a team collaboration among
 1186 healthcare professionals. IDD registered nurses are experts at person centered care, an approach that
 1187 places the person with an IDD at the center of the team. IDD registered nurses are role models who
 1188 consider the IDD individual’s values, desires, family system, and goals of their clients while engaging
 1189 with other members of the interprofessional team.

1190

1191 The Interprofessional Education Collaborative Expert Panel ([IECEP], 2011) introduced four core
 1192 competencies of collaborative practice that can be applied to all settings where IDD registered nurses
 1193 practice:

1194

- 1195 1. Values and Ethics: Work with Individuals of other professions to maintain a climate of mutual
 1196 respect and shared values (IECEP, p. 19).
- 1197 2. Roles and Responsibilities: Use the knowledge of one’s own role and those of other professions
 1198 to assess and address the health care needs of the patients and populations served (IECEP, p.
 1199 21).
- 1200 3. Interprofessional Communication: Communicate with patients, families, communities, and other
 1201 health professionals in a responsive and responsible manner that supports a team approach to
 1202 health maintenance and the treatment of disease (IECEP, p.23).

- 1203 4. Teams and Teamwork: Apply relationship-building values and the principles of team dynamics to
 1204 perform effectively in different team roles to plan and deliver patient-/population-centered care
 1205 that is safe, timely, efficient, effective, and equitable (IECEP, p.25).
 1206 Adherence to these competencies will not only improve health outcomes of persons with IDD
 1207 but may alleviate professional burnout of IDD nurses.
 1208

1209 **Key Influences on the Quality and Environment of Nursing Practice**

1210
 1211 Auberry (2018) identified several distinct challenges in the field of IDD nursing that include: complexity
 1212 of care, educational preparation specific to the field is lacking, role ambiguity exists across varied
 1213 practice settings, and a scarcity of evidence based research to guide practice. IDD registered nurses not
 1214 only need to be aware of these challenges but should take a lead in removing barriers that prevent a
 1215 productive, high quality environment within which to practice.
 1216

1217 Other major influences on the Quality and Environment of IDD Nursing Practice are:

- 1218 • *The Future of Disability in America* IOM report (2007) which addressed issues related to
 1219 monitoring healthcare trends and services and identifies gaps in disability science in
 1220 order to strengthen evidenced based care.
- 1221 • IDD nurses must utilize current resources such as *Healthy People 2020: Disability and*
 1222 *Health* (2019) to discover specific objectives, interventions, resources, and data to:

1223 “Maximize health, prevent chronic disease, improve social and environmental living conditions, and
 1224 promote full community participation, choice, health equity, and quality of life among individuals with
 1225 disabilities of all ages.” ([https://www.healthypeople.gov/2020/topics-objectives/topic/disability-and-](https://www.healthypeople.gov/2020/topics-objectives/topic/disability-and-health)
 1226 [health](https://www.healthypeople.gov/2020/topics-objectives/topic/disability-and-health))
 1227

1228 The healthcare industry, legislation, and regulatory bodies are major external influences on the work
 1229 environment of all nurses. IDD registered nurses must keep abreast of trends and changes to
 1230 healthcare delivery; they must practice to the full extent of their education. IDD registered nurses can
 1231 ensure that their consumers have access to high quality health care thus alleviating disparities among
 1232 people with IDD (ANA, 2015; IOM, 2011).
 1233

1234 **Societal, Cultural, and Ethical Dimensions Describe the Why and How of Nursing**

1235
 1236 IDD nursing is responsive to the changing needs of society that include its changing diversity, the
 1237 legislative changes and the expanding knowledge base of its theoretical and scientific domains. One
 1238 objective of nurses who specialize in IDD is to achieve positive outcomes that maximize quality of life
 1239 across the entire lifespan. Registered nurses specializing in IDD facilitate the interprofessional,
 1240 comprehensive and cultural care provided by healthcare professionals, paraprofessionals, and
 1241 volunteers. In other instances, IDD registered nurses consult with other colleagues to inform decision-
 1242 making and planning to meet the healthcare needs of individuals with IDD. Registered nurses
 1243 specializing in IDD participate in interprofessional teams in which the overlapping skills complement and
 1244 enhance each member’s individual efforts.
 1245

1246 IDD nursing practice, like all nursing practice, is fundamentally an independent practice in that
 1247 registered nurses are accountable for nursing judgments made and actions taken in the course of their
 1248 nursing practice. Therefore, the registered nurse specializing in IDD is responsible for assessing
 1249 individual competence and is committed to the process of life-long learning. Registered nurses
 1250 specializing in IDD develop and maintain current knowledge and skills through formal and continuing

1251 education and seek available certification. Advanced Practice Registered Nurses (APRNs) specializing in
1252 IDD require specialized knowledge and skills obtained through formal and continuing education (i.e.,
1253 Leadership Education in Neurodevelopmental Disabilities-LEND, meeting presentations on IDD health
1254 issues) related to the health care and management of conditions that are general or unique to the IDD
1255 population and their families.
1256

1257 All registered nurses are bound by a professional code of ethics (ANA, 2015b) and practice with highest
1258 respect and advocacy for the persons with IDD and families. The registered nurse is charged by the
1259 nursing practice act and empowered to promote the optimal life and environment for themselves and
1260 persons with IDD and their family. High quality care will also be guided by research and evidence-based
1261 practice, in coordination through collaboration with the multidisciplinary team, to influence policy and
1262 practice. IDD registered nurses regulate themselves as individuals through a collegial process of peer
1263 review of practice. Peer evaluation fosters the refinement of knowledge, skills, and clinical decision-
1264 making at all levels and in IDD nursing practice. Self-regulation by the profession of nursing assures
1265 quality of performance, which is the heart of nursing's social contract (ANA, 2010). IDD registered nurses
1266 recognize the larger scope of nursing's concern relative to the health of not only individuals and families,
1267 but also groups, communities, and IDD nurse roles as members of this nursing specialty. Registered
1268 nurses in IDD are fundamentally committed to respect for the individual, family, group, community or
1269 population and their inherent dignity, worth and uniqueness through advocating and protecting the
1270 rights, health and safety of patients. The IDD registered nurse is accountable and responsible for
1271 decisions and actions that promote health and provide optimal patient care using such practices as
1272 shared decision making, self-determination, and interprofessional collaborations. Individually and
1273 collectively, the IDD registered nurse has the duty to maintain and promote *their own* health, safety,
1274 competence, personal and professional growth within an ethical work environment. The IDD registered
1275 nurse advances the profession beyond individual patient care through scientific and scholarly inquiry,
1276 professional standards development, and generation of policy reflecting social justice principles in
1277 collaboration with other professionals and communities, with the goal to reduce health disparities and
1278 protect human rights.
1279

1280 Registered nurses specializing in IDD nursing and members of various professions exchange knowledge
1281 and ideas about how to deliver high-quality health care, resulting in overlaps and constantly changing
1282 professional practice boundaries. This interprofessional team collaboration involves recognition of the
1283 expertise of others within and outside one's profession and referral to those providers when
1284 appropriate. Such collaboration also involves some shared functions and a common focus on one overall
1285 mission. By necessity, IDD nursing's scope of practice has flexible boundaries.
1286

1287 Registered nurses specializing in IDD regularly evaluate safety, effectiveness, and cost in the planning
1288 and delivery of nursing care to individuals with IDD. Nurses recognize that resources are limited and
1289 unequally distributed, and that the potential for improving access to care requires innovative
1290 approaches, such as treating individuals with IDD remotely. Advanced Practice Registered Nurses
1291 (APRNs) in IDD nursing are uniquely qualified to assess, diagnose and treat individuals with IDD locally
1292 and remotely in accordance with state-approved regulations. As members of a profession, registered
1293 nurses work toward equitable distribution and availability of healthcare services to individuals with IDD
1294 throughout the nation and the world.
1295

1296 **Model of Professional Nursing Practice Regulation**

1297

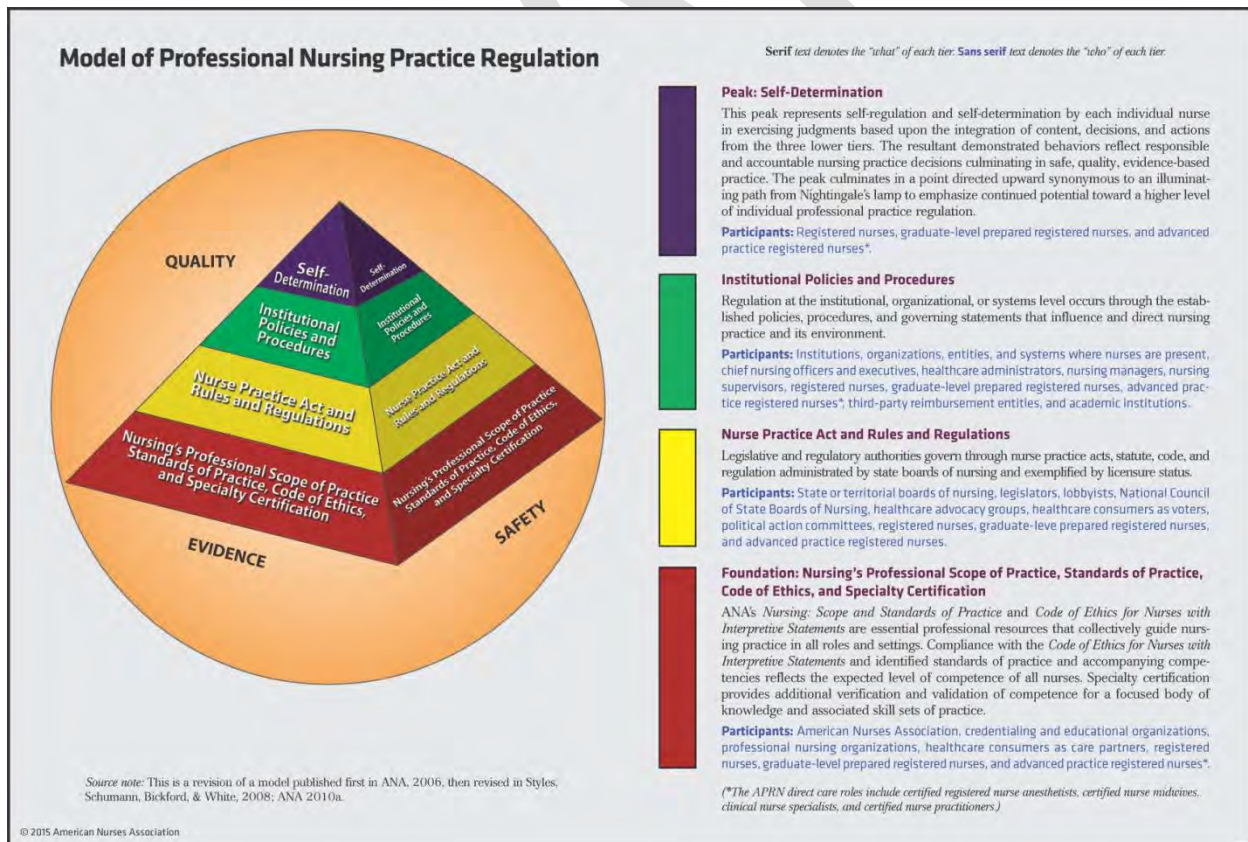
1298 The Model of Professional Nursing Practice Regulation (Styles, Schumann, Bickford, & White, 2008)
 1299 depicted in Figure 2 emerged from ANA work and informs the discussions of specialty nursing and
 1300 advanced practice registered nurse practice. This Model of Professional Nursing Practice Regulation
 1301 applies equally to IDD specialty nursing practice.
 1302

1303 Each of the four levels of the Model of Professional Nursing Practice Regulation contributes to nursing
 1304 evidence, quality, and safety. The lowest level in the model represents the responsibility of the IDD
 1305 professional and specialty nursing organizations to their members and the public to define the scope
 1306 and standards of practice for IDD nursing. The next level of the pyramid represents the regulation
 1307 provided by the nurse practice acts, rules, and regulations in the pertinent licensing jurisdictions. APRN
 1308 practice regulations, though defined by the Nurse Practice Act, are governed by Boards of Nursing so
 1309 can vary across states (American Nurses Association, 2015a; 2015b).
 1310

1311 The third level demonstrates how institutional policies and procedures provide further considerations in
 1312 the regulation of nursing practice for the IDD registered nurse and IDD advanced practice registered
 1313 nurse.
 1314

1315 Note that the highest level is that of self-determination by the IDD nurse, after consideration of all the
 1316 other levels of input about professional nursing practice regulation. The outcome is safe, quality, and
 1317 evidence-based practice.
 1318
 1319

Figure 2. Model of Professional Nursing Practice Regulation



1321

1322 **The Code of Ethics for Nurses**

1323

1324 The *Code of Ethics for Nurses with Interpretive Statements* (“The Code”; ANA, 2015) serves as the ethical
 1325 framework in nursing regardless of practice setting or role, and provides guidance for the future. The
 1326 **provisions** explicate key ethical concepts and actions for all nurses in settings that care for the
 1327 healthcare consumer with IDD. Detailed descriptive interpretive statements for each of the nine
 1328 provisions of the Code are available at <http://www.nursingworld.org/codeofethics>.

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1330

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1334

The *Code of Ethics for Nurses with Interpretive Statements* arises from the long, distinguished, and enduring moral tradition of modern nursing in the United States. It is foundational to nursing theory, practice, and praxis in its expression of the values, virtues, and obligations that shape, guide, and inform nursing as a profession. It establishes the ethical standard for the profession and provides a guide for nurses to use in ethical analysis and decision-making. (ANA, 2015, p. vii)

1335

The Code also describes the ethical characteristics of the professional nurse:

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Individuals who become nurses, as well as the professional organizations that represent them, are expected not only to adhere to the values, moral norms, and ideals of the profession but also to embrace them as a part of what it means to be a nurse. The ethical tradition of nursing is self-reflective, enduring, and distinctive. A code of ethics for the nursing profession makes explicit the primary obligations, values, and ideals of the profession. It provides normative, applied moral guidance for nurses in terms of what they ought to do, be, and seek. The values and obligations in the *Code of Ethics for Nurses* apply to nurses in all roles, in all forms of practice, and in all settings. In fact, it informs every aspect of the nurse’s life. (ANA, 2015, p. vii)

1345

1346

1347

1348

The IDD registered nurse uses the Code of Ethics for Nurses with Interpretive Statements (ANA, 2015) to guide practice. The IDD population-specific provisions are below. The nurse caring for the healthcare consumer with IDD will:

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Provision 1 – practice compassion and respect for the dignity and uniqueness of the healthcare consumer with IDD.

- Deliver care in a manner that preserves and protects the autonomy, dignity, rights, values, beliefs, and practices of the healthcare consumer with IDD and their family.
- Support the expression of sexuality of the healthcare consumer with IDD in a manner that is consistent with the healthcare consumer’s gender expression, native culture, religious upbringing, family values, level of maturity and offer counseling as appropriate.
- Facilitate the self-determined decisions of the healthcare consumer with IDD in all healthcare settings. The concept of “dignity of risk” means that the healthcare consumer with IDD should be empowered to make an informed decision that others might not have chosen. This reflects a shared balance in decision-making with the consumer, in which all the treatment options are presented and the benefits and risks of each discussed with respect for the consumer’s self-determination.

- 1362 • Advocate for life-sustaining treatment or refusal/withdrawal of life-sustaining treatment
1363 decisions by the healthcare consumer with IDD and the family
- 1364 • Provide palliative care for serious and/or terminal illness when appropriate and agreed
1365 upon by the healthcare consumer with IDD and family; or works with a palliative care
1366 agency to provide appropriate, individualized care to the health care consume with IDD
1367 and family.
- 1368 • Provide or arrange for effective and appropriate palliative care for healthcare consumers
1369 with IDD who undergo tests or treatments for illnesses, have chronic conditions, and/or
1370 are at the end of life.
- 1371 • Provide support and resources for end-of-life care, grief, and bereavement when
1372 healthcare consumers with IDD experience loss.
- 1373
- 1374 *Provision 2* – be committed to the healthcare consumer with IDD, their family, and their community.
- 1375 • Recognize the centrality of the healthcare consumer with IDD and family/legal
1376 guardian(s) as core members of the healthcare team.
- 1377 • Identify a surrogate for healthcare decisions in lieu of a formal guardian(s)hip process,
1378 when appropriate, and in accordance with local and/or state statutes.
- 1379 • Advance the transitional care of the healthcare consumer with IDD and their family
1380 throughout the lifespan in healthcare and the community.
- 1381
- 1382 *Provision 3* – protect, promote, and advocate for the health and safety of the healthcare consumer with
1383 IDD and their family.
- 1384 • Serve as an advocate for the healthcare consumer with IDD and family/legal guardian(s)
1385 by developing their collective self-advocacy skills in areas of health and safety. For
1386 example, teaching the individual with IDD and family how to safely access transportation
1387 services that will facilitate their independence.
- 1388 • Advocate for the healthcare consumer with IDD in self-determination decisions and
1389 engage the surrogate decision-maker for full discernment.
- 1390 • Assist in assuring that the living arrangement for the healthcare consumer with IDD is the
1391 most appropriate and the least restrictive environment possible.
- 1392
- 1393 *Provision 4* – be accountable and responsible to the nursing practice act; with decision and actions to
1394 promote health and provide optimal care of the healthcare consumer with IDD and their family.
- 1395 • Maintain a therapeutic and professional relationship with the healthcare consumer with
1396 IDD and their family that promotes appropriate professional role boundaries.
- 1397 • Advocate for the decisions and actions that promote optimal care of the individual with
1398 IDD and family/legal guardian(s) and when appropriate initiate referral to an
1399 organizationally recognized advocate.
- 1400 • Assist in the referral process for local, state, regional, and federal assistance services and
1401 programs.
- 1402
- 1403 *Provision 5* – promote health and safety for the IDD nurse; maintain competencies, as well as personal
1404 and professional development.
- 1405 • Demonstrate a commitment to maintaining IDD nursing competencies and professional
1406 development, while practicing personal self-care, healthy interpersonal relationships and
1407 use of stress-reduction skills.

- 1408 • Educate colleagues outside of the IDD specialty who provide healthcare **to individual**
 1409 consumers with IDD and their family.

1410
 1411 *Provision 6* – work collaboratively to provide ethical, safe, and high-quality work environment for
 1412 him/herself and for the healthcare consumer with IDD and their family.

- 1413 • Uphold confidentiality of the healthcare consumer with IDD and families within legal and
 1414 regulatory parameters.
 1415 • Take appropriate action regarding instances of illegal, unethical, or incompetent
 1416 behavior that can endanger or jeopardize the best interests of the healthcare consumer
 1417 with IDD and their family.
 1418 • Work to prevent abuse or exploitation of the healthcare consumer with IDD and
 1419 promptly respond to suspicion or evidence by reporting to appropriate authorities.
 1420 • Contribute to an environment that protects the healthcare consumer with IDD from
 1421 sexual exploitation at home, school, work, and community.

1422
 1423 *Provision 7* – advance the profession through scholarly inquiry, standards development, and influencing
 1424 policy.

- 1425 • Question healthcare practices and institutional policies that are not in alignment with the
 1426 optimal safety of the individual with IDD and family to promote organizational quality
 1427 improvements using improvement science or systematic research.
 1428 • Contribute to the educational and vocational program recommendations and advocate
 1429 for the least restrictive environment to maximize the potential of the healthcare
 1430 consumer with IDD.
 1431 • Serve as an advocate to ensure that the healthcare consumer with IDD receives
 1432 coordinated, continuous, and accessible health care that is provided by a professional
 1433 who is competent in managing health concerns of healthcare consumers with IDD.

1434
 1435 *Provision 8* – work as a team with other providers to protect the rights, promote the health, and reduce
 1436 disparities for the healthcare consumer with IDD and their family.

- 1437 • Participate on interdisciplinary teams to address ethical risks, benefits, and outcomes.
 1438 • Inform administrators or leaders of the risks, benefits, and outcomes of programs and
 1439 decisions that affect inequitable healthcare delivery of the healthcare consumer with IDD
 1440 and their family.
 1441 • Contribute to the life-course plan and advocate for the most appropriate employment
 1442 situation for the healthcare consumer with IDD. The nurse assists in identifying
 1443 reasonable accommodations to maximize the healthcare consumer’s performance and
 1444 satisfaction with chosen employment.

1445
 1446 *Provision 9* – will work with professional organizations to communicate values and incorporate social
 1447 justice.

- 1448 • Respect the right of the healthcare consumer with IDD to self-determination by engaging
 1449 them and their family in shared decision-making, unless the healthcare consumer’s
 1450 incapacity to participate in a specific decision is demonstrated and a surrogate decision-
 1451 maker is legally required.
 1452 • Advocate for equitable health care for consumers with IDD and families in organizations
 1453 and the community.

- 1454 • Contribute to resolving ethical issues involving the healthcare consumer with IDD,
 1455 colleagues, community groups, systems, and other stakeholders as evidenced by
 1456 activities such as participating on ethics committees and influencing policy makers.
 1457

1458 **Professional Registered Nurses Today: The Who of Nursing**

1459 ***Statistical Snapshot***

1460
 1461 The number of nurses identifying themselves as IDD nurses is unknown. The only national certification
 1462 program for registered nurses specifically addressing individuals with IDD is through the Developmental
 1463 Disabilities Nurses Association (DDNA), which claims about 1,300 members, including LPNs, associate's-
 1464 degree registered nurses, and baccalaureate-prepared registered nurses, as well as APRNs and
 1465 doctorally prepared nurses. Interdisciplinary organizations such as the American Association on
 1466 Intellectual and Developmental Disabilities (AAIDD), American Academy for Cerebral Palsy and
 1467 Developmental Medicine (AAPDM), and the International Association for the Scientific Study of
 1468 Intellectual Disability (IASSID) count nurses among their membership. Additionally, of interest, is that
 1469 the National Association of School Nurses' Special Needs Special School Nurses Special Interest Group
 1470 numbering 3260 registered nurse members in May, 2019 (NASN, 2019b) Those school nurses are not
 1471 necessarily certified as IDD registered nurses, but it is an indication of the large number of school nurses
 1472 who want to keep up with education and issues related to students with IDD. The Special Needs School
 1473 Nurses Special Interest Group has a discussion list-serve that facilitates communication among
 1474 members.
 1475

1476 ***Licensure and Education of IDD Registered Nurses***

1477
 1478 The IDD registered nurse is licensed and authorized by a state, commonwealth, or territory to practice
 1479 nursing.
 1480
 1481 In the United States, the student who graduates from a basic nursing education program is eligible to be
 1482 licensed as a registered nurse (RN). IDD registered nurses, like all registered nurses, can take several
 1483 educational routes. Although most professional nursing organizations, such as ANA, emphasize that
 1484 Baccalaureate preparation in nursing is the entry into practice, there are several pathways to obtaining
 1485 the entry level education to become a registered nurse. These educational options include nursing
 1486 diploma, associate and baccalaureate degrees. Many community colleges, private educational
 1487 institutions and hospitals still offer the Associate Degree for registered nurses, particularly when there
 1488 are local or national shortages of registered nurses. Three-year diploma programs are offered primarily
 1489 through hospitals. Associate degree and diploma graduates take the same national licensing exam
 1490 (NCLEX-RN) as Baccalaureate graduates as all must address the basic competencies needed for the
 1491 NCLEX-RN exam (American Association of Colleges of Nursing [AACN], 2017). Entry-level registered
 1492 nurses are prepared as generalists, and often specialize following graduation and licensure. More
 1493 programs (777) now exist that offer a pathway from AD RN to BSN, and above from RN to MSN (219
 1494 programs) (AACN, 2019).
 1495

1496 The licensed registered nurse, regardless of educational pathway, is not prepared to specialize in IDD.
 1497 Continuing education programs and progressive work experience with individuals who have IDD
 1498 enhance the IDD nurse's knowledge, skills, and abilities.
 1499

1500 At the graduate level, a few nursing education programs across the country do offer specialization in
 1501 IDD, and these programs are funded by the Maternal and Child Health Bureau. These training programs,

1502 known as the Leadership Education in Neurodevelopmental and Related Disabilities (LEND) are funded
1503 by the Maternal Child Health Bureau, Department of Health and Human Services in partnership with
1504 many of the UCEDDs. A listing of these programs can be found on the Maternal and Child Health Bureau
1505 web site (<http://www.mchb.hrsa.gov/training/>); from the home page, indicate “nursing” in the field
1506 asking for discipline).

1507
1508 IDD registered nurses with a Master’s degree may continue their education toward the Doctor of
1509 Philosophy (PhD) degree or the Doctor of Nursing Practice (DNP) degree. The PhD graduate focuses on
1510 research and theory generation, as well as academic education. The DNP graduate focuses on clinical
1511 practice, quality assurance, and clinical outcome evaluation, as well as clinical education in academic
1512 and other settings.

1513
1514 It is projected that there will be opportunities for DNPs (i.e. nurse practitioners) to practice under full
1515 scope of practice (SOP) given the projected shortages of primary and specialty care physicians (Bauer &
1516 Bodenheimer, 2017; Kirch, & Petello, 2017; Xue, Kannan, Greener, et al. 2018). It is estimated by 2030,
1517 there could be a shortage of more than 100,000 physicians with the specialty fields of practice most
1518 significantly affected the field of intellectual and developmental disabilities (Kirch & Petello, 2017).
1519 Likewise, the number of NPs will rise and constitute as large percentage of the workforce, rising from
1520 19% in 2010 to 29% by 2025. It is projected that there will be greater numbers of NPs practicing in rural
1521 and health professional shortage areas (HPSA), and those who are insured by Medicaid, particularly in
1522 states wherein there are full SOP regulations (Bauer & Bodenheimer, 2017). Since individuals with IDD
1523 are likely to be included among those who do not have access to primary physicians, DNPs might
1524 become primary caregivers to many of these individuals. This is another indication that IDD nursing
1525 education is needed.

1526
1527 Efforts to address underserved areas and populations are underway that can positively affect access to
1528 care for individuals with IDD. In January 2018 the Nurse Licensure Compact (eNLC) was implemented
1529 and adopted by 29 states. Although narrow in scope as it affects RNs and LVNs only (APRN not
1530 included), nurses with licensure in an eNLC state can migrate to other eNLC member states without
1531 having to take the licensing examination of that state (“Progress and Precision”, 2018). The aim of this
1532 regulation is to redirect nursing resources in underserved areas and for vulnerable populations wherein
1533 there are fluctuations in nursing resources. It also provides for immediate reciprocity of licensure among
1534 compact states.

1535
1536 ***Definitions and Concepts Related to Competence in IDD Nursing***

1537
1538 Competence in IDD nursing is based upon the standards of nursing practice generated by ANA, state
1539 boards of registered nursing and specialty organizations. The ANA Professional Role Competence
1540 Position Statement (2014) defines competence as “...performing successfully at an expected level and
1541 with “...an expected level of performance that integrates knowledge, skills, abilities, and judgment.”
1542 (p.3). In, the ANA Code of Ethics for Nurses with Interpretive Statements (2015b), Provision 5.5 directly
1543 addresses the issue of competence and continuation of professional growth. Competence is referred to
1544 as “... a self-regarding duty” (p.22). That is, nurses have a responsibility to “...maintain competence and
1545 strive for excellence in their nursing practice, whatever the role or setting” (p.22).

1546
1547 The National Council of State Boards of Nursing defined competence as “the application of knowledge
1548 and the inter-personal, decision-making, and psychomotor skills expected for the practice role, within
1549 the context of public health” (NCSBN, 2005, p. 81). Competence is referred to as “. a measure of

1550 performance that is the active, behavioral expression of expertise lying on a continuum from novice to
1551 expert (Bathisha, Wilson, Potempac, 2018). Competence has also been defined as the description of a
1552 behavior or act, while competency has been defined as the underlying behavior that leads to the
1553 competent performance (McMullan et al., 2003). Competence is composed of varied attributes,
1554 including judgment, critical thinking skills, and physical/behavioral skills. Competence is job-related,
1555 situation-related, and represents qualities that yield effective performance on the job. Competence is
1556 the capacity and potential to perform in a given setting (Cowan, Norman, & Coopamah, 2007).
1557 Competence is the application and demonstration of skills, knowledge, and judgment (Scott Tilley,
1558 2008).

1559
1560 Attributes associated with nurse competence, including IDD nursing competence, are the ability to
1561 integrate knowledge into practice, caring attitude, communication skills, critical thinking, professional
1562 experience, motivation, organizational environment, professionalism, and skills proficiency (Smith,
1563 2012). Benner (1984) proposed a developmental model of competence, with stages from novice to
1564 expert, which posits that competence is also dependent on length of experience. More recently,
1565 deliberate practice defined as activities undertaken “...aimed at improving one’s competence and
1566 leading to expertise” is linked to competence (p. 106, Bathish, Wilson, Potempa, 2018).
1567 Lifelong learning serves as the basis of deliberate practice and essential for achieving and maintaining
1568 competence. Because nursing education generally lacks content and experience in care of individuals
1569 with IDD, nurses must continually seek learning opportunities on the job, through advanced educational
1570 preparation or combined with continuing education.

1571
1572 A variety of intrinsic and extrinsic factors influence competence in actual day-to-day nursing practice
1573 including IDD nursing practice. Quality care results from competence. Environmental factors may be
1574 supportive of competence or present challenges. For example, performing a physical exam on a
1575 cooperative patient may be a basic skill, but performing a physical exam on an individual with autism, a
1576 sensory disorder, and a communication disorder may requires a different set of knowledge, skills, and
1577 expertise.

1578
1579 There is little empirical data to inform care of individuals with IDD and to guide competence in nursing
1580 practice with this population. However, evidence for practice can be sought by accessing the
1581 interdisciplinary literature and serving as a member of interdisciplinary teams. The majority of nurses
1582 entering into practice have little or no experience with children or adults with IDD, and many believe
1583 they will never encounter persons in practice. However, as more individuals with IDD leave institutions
1584 and live in the community, nurses in all settings, including school nurses, will find themselves involved in
1585 providing services for the IDD population.

1586
1587 Lazarus and Lee (2006) studied healthcare consumers’ identification of factors they believed influenced
1588 nursing competence. Education, number of patients, hours worked, education in procedures, salary,
1589 involvement in professional activities, attitude, and work conditions were among the factors listed.
1590 Excessive work hours and poor work conditions translated to poor quality of care. Behaviors such as lack
1591 of courtesy and caring, poor communication skills, discomfort with performing technical skills, and
1592 knowledge deficits negatively influenced competence (Lazarus & Lee, 2006). Behaviors such as these put
1593 all patients at risk, and are particularly risky for individuals with IDD, due to their vulnerabilities.

1594
1595 The registered nurse who specializes in IDD systematically enhances the quality and effectiveness of
1596 nursing practice by performing care according to quality standards and by meeting both generalist and
1597 specialist nursing competencies. These examples include the scope and standards of nursing practice

1598 published by ANA, such as gerontological nursing, pediatric nursing, psychiatric/mental health, public
1599 health nursing, genetics/genomic nursing and school nursing practice. Other nursing subspecialty
1600 resources such as *Health Care Quality and Outcomes Guidelines for Nursing of Children, Adolescents and*
1601 *Families* that denotes excellence in pediatric nursing practice can be accessed for IDD nursing practice
1602 (Betz, Krajieck, & Craft-Rosenberg, 2018). Lifelong learning is a commitment to quality, requiring nurses
1603 to constantly reappraise their own practice and seek to upgrade knowledge and skills.

1604

1605 ***Evaluating Competence***

1606

1607 Competence in nursing practice, including IDD nursing practice, must be evaluated by the individual
1608 nurse (self-assessment), nurse peers, and nurses in the roles of supervisor, coach, mentor, or preceptor.
1609 In addition, other aspects of nursing performance may be evaluated by professional colleagues and
1610 patients. Competence can be evaluated by using tools that capture objective and subjective data about
1611 the individual's knowledge base and actual performance and are appropriate for the specific situation
1612 and the desired outcome of the competence evaluation. However, no single evaluation tool or method
1613 can guarantee competence. (ANA, 2014).

1614

1615 Bachelor's and associate-level programs prepare nurses to meet general nursing competencies and to
1616 pass the NCLEX-RN licensing exams upon graduation (Kronk, Colbert, Smeltzer, & Blunt, 2019).
1617 Graduation from an accredited program and successful completion of the licensing exam represent to
1618 the public, consumers, and employers that the registered nurse is capable of general, competent, and
1619 safe nursing care. The IOM (IOM, 2011) recommends that all graduating RNs complete a nurse
1620 internship before entering into independent practice. Currently, this occurs mostly in the hospital
1621 setting, but nurse internships in community agencies serving individuals with IDD are needed. They
1622 would allow novice registered nurses to hone the basic skills they developed in training and apply them
1623 to the needs of the IDD population.

1624

1625 Continuing education and monitoring numbers of continuing education units has traditionally been the
1626 primary method for evaluating competence for practicing registered nurses, as well as many advanced
1627 practice registered nurses (APRNs). As noted previously, nursing organizations such as the
1628 Developmental Disabilities Nursing Association (DDNA) offer certification of registered nurses (separate
1629 from APRN certification) as one method of evaluating competence of professional nurses working in
1630 specialized settings. Certification in IDD nursing can be found on the DDNA website
1631 (<https://ddna.org/certification/>).

1632

1633 IDD registered nurses evaluate their own nursing practice in relation to professional practice standards
1634 and evidence-based guidelines, and relevant statutes, rules, and regulations, identifying strengths and
1635 areas in need of further development. As part of the self-evaluation of practice, the registered nurse
1636 solicits feedback from healthcare consumers, family members/legal guardian(s), colleagues, and others,
1637 including direct care support professionals. Use of practice portfolios places the responsibility of
1638 maintaining competence on the individual nurse, and can document experience in subspecialties (such
1639 as care of individuals with IDD), involvement in quality assurance efforts, and participation in
1640 professional interdisciplinary and nursing specialty organizations, as well as competencies not evaluated
1641 by other methods. The IDD nurse must also evaluate nursing care delegated to other professionals,
1642 direct care support professionals, unlicensed assistive personnel, or the family/legal guardian(s) and
1643 document the effect of delegation on health outcomes.

1644

1645 **Professional Trends and Issues**

1646
1647 Nurses practicing in the field of IDD continue to refine and improve their care through clinical practice
1648 and advocacy. As practice in this field continues to evolve and advance, several areas will remain
1649 essential to provision of quality care to this vulnerable population, including cultural sensitivity, early
1650 assessment and identification, inclusion in schools and community, chronic illness, transition from
1651 pediatric to adult healthcare services, self-advocacy and self-determination, accessing and securing
1652 equitable share of healthcare services, community living, and genomics.

1653
1654 The most significant societal shift that has emerged in the past several decades has been the increase in
1655 cultural diversity of the nation's population (ANA, 2015a; Campinha-Bacote, 2011a, b; Leininger, &
1656 McFarland, 2002; McFarland, & Wehbe-Alamah, 2015). This pattern of diversity is also observed in the
1657 IDD population (Butler et al., 2016). This trend demands increased efforts by nurses to expand their
1658 cultural competence in adapting care to cultural norms that foster communication and positive health
1659 outcomes for this population, their families and legal guardian(s).

1660
1661 Nurses also play a key role in the healthcare management of individuals with IDD throughout their
1662 lifetime. Technological medical advances have resulted in a longer lifespan for this population, resulting
1663 in a crucial need for nursing care that facilitates a smooth transition from pediatric to adult-oriented
1664 primary and specialty health services (Betz, O'Kane, Lobo, & Nehring, 2015). The shift to adulthood also
1665 requires individualized counseling and coaching strategies to develop key self-advocacy skills that ensure
1666 their healthcare needs are met. Advocacy efforts also guide and support efforts that include individuals
1667 with IDD in making, to the extent possible, decisions regarding their health and well-being, including
1668 their goals for care at the end of life. Further evidence needs to be discovered that focuses on effective
1669 assessment and intervention techniques that meet the unique needs of older persons with IDD, and
1670 particularly with those who develop dementia as a secondary diagnosis. (Jacques, 2018).

1671
1672 The continued aging of the IDD population requires nurses to prioritize care that is illness-focused to
1673 that which is increasingly oriented to health promotion and disease prevention. Specific nursing roles
1674 related to promotion of health and well-being of this population include creating environments
1675 conducive to health, involving stakeholders in planning health goals and promoting self-care. New
1676 discoveries in genetic and genomic health care continue to demand that nurses have essential
1677 competencies in this specialized clinical area. Such competence will promote appropriate utilization of
1678 genetic care resources for innovative diagnostic procedures, genetic evaluation, counseling or risk
1679 assessment and personalized, targeted drug and therapeutic interventions that might be indicated for
1680 the person with IDD and his/her family.

1681
1682 New advances in information technology (IT) have the potential to provide expanded professional
1683 nursing services to persons with IDD. In particular, telehealth services can connect nurses who work
1684 with those living in underserved and rural areas with a range of healthcare services and resources to
1685 facilitate virtual assessments and consultation about needed care. Telehealth services may also benefit
1686 the person with IDD whose mobility impairments or fragile health status impede safe and accessible
1687 transportation to other healthcare facilities.

1688
1689 There is also an ongoing nursing shortage in the specialty of IDD nursing. Efforts are being made by
1690 public and private institutions to increase salaries for IDD registered nurses. Although IDD nurses' expert
1691 knowledge and skills are necessary to meet the unique healthcare needs of the IDD population, their
1692 compensation is less than that of nurses in other specialty areas (Augury, 2018). The basis for this
1693 discrepancy is unclear, but may be related to "lack of recognition regarding this nursing specialty within

1694 the profession, ambiguous nature of the IDD nursing role and significant gaps in research that clearly
 1695 guide practice in this field” (Aubury, 2018, p.26). Integration of IDD content into pre-licensure and
 1696 graduate nursing curriculum is limited, as well as opportunities for clinical experiences in settings that
 1697 provide health services to this special population. Nursing curricular policy change is warranted to
 1698 ensure that registered nurses have the basic knowledge and skills necessary to provide safe and
 1699 competent care to this population. Curricular integration to include IDD nursing will provide
 1700 opportunities for novice nurses to discover the benefits and contributions that a career in caring for this
 1701 population can provide to individuals, families and society. Other opportunities for learning include
 1702 membership in national professional organizations with subspecialty interest groups in IDD nursing.
 1703 These are listed in the box below.
 1704

APRN Special Interest Groups for IDD Resources	
Nurse Practitioner Special Interest Group (SIG) in the Society of Developmental and Behavioral Pediatrics	This group advises APRNs and APRN students on ways to learn about IDD nursing and offers pre-conference workshops on topics in IDD that interest new and established APRNs in IDD nursing. The link for further details and contact information is http://www.sdbp.org/committees/sig-nurse-practitioners.cfm
NAPNAP SIG Developmental, Behavioral and Mental Health (DBMH)	This SIG would be of interest for new and established APRNs in the field of IDD nursing. The link to the DBMH website and contact information is found under the position statement for current officer names. https://www.napnap.org/developmental-behavioral-and-mental-health-sig
SDBP Nurse Practitioner SIG and NAPNAP DBMH SIG	These SIGs have partnered to provide a collaborative, innovative effort to establish an online asset management site for pediatric healthcare providers. Born out of a group of like-minded individuals with shared knowledge, experience, and practice, this effort is positioned as a go-to resource and catalogue for free, valuable, and vetted DBMH resources. The link below is available to all and a resource for nurses interested in IDD nursing: www.dbmhresource.org The DBMH site management team is also available for contact at mentalhealth@napnap.org

1705
 1706 **Creating a Sustainable Nursing Workforce**
 1707
 1708 Scant empirical data are available on the number of nurses whose specialty area of practice is in the
 1709 field of IDD and projected numbers of this specialty group of nurses to meet the ongoing and future
 1710 comprehensive healthcare needs of individuals with IDD. Several reasons have been offered to account
 1711 for the dearth of available data, which include lack of resources to conduct national surveys and the
 1712 transformative changes resulting from the de-institutionalization movement begun decades ago have
 1713 altered the practice of nurses who specialize in IDD nursing as care is no longer provided in easily
 1714 identifiable institutional settings (S. Diane Moore, personal communication, October 15, 2018; O’Reilly,
 1715 et al., 2018). As noted, “The specialized field of nursing has arguably been subjected to a greater amount
 1716 of policy and professional delegitimization than any other specialty field of nursing” (O’Reilly, p.
 1717 e12258).

1718
 1719 It can be inferred, however, from the data reported on the projected trends with professional nursing
 1720 and interprofessional practice, U.S. population health needs and predicted changes in the delivery of
 1721 health services will have significant impact on the healthcare needs of individuals with IDD. These
 1722 predicted changes will also alter the professional practice opportunities and challenges of IDD nurses to

1723 respond to them (Auerbach, Staiger, & Buerhaus, 2018; Auerbach, Buerhaus, & Staiger, 2018; Bauer, &
1724 Bodenheimer, 2017; Xue, et al., 2018). Unfortunately, these challenges are not unique to the U.S.
1725 (Delahunty, 2017; Trollor, Eagleson, Turner, Salomon, Cashin et al., 2018).

1726
1727 The challenges facing professional nursing in the years to come are immense as significant societal
1728 trends are forecasted to effect changes in professional nursing practice, the delivery and organization of
1729 health care, and the population of Americans including individuals with IDD in the years to come. These
1730 projected trends include the aging United States (US) population, including seniors with IDD, shortages
1731 of the medical and nursing workforce, and the reform and retooling of the healthcare delivery system of
1732 care so that more care will be provided in the community, home and remotely (Buerhaus, Skinner,
1733 Auerback & Staiger, 2017; Robert Wood Johnson Foundation, 2013). All these projected changes will
1734 impact the access and quality of care provided to individuals with IDD.

1735
1736 Projections of the nursing workforce are predicted to vary according to the region in the U.S. These
1737 projections are based upon national workforce data collected from the Current Population Survey (CPS;
1738 N-70, 201) and the American Community Survey (ACS; N=366, 927) from 1979 to 2014 on the
1739 employment status of registered nurses. Based on these projections, nursing shortages are expected in
1740 New England (Maine, Massachusetts, New Hampshire, Rhode Island, Vermont) whereas the region of
1741 South Central (Arkansas, Louisiana, Oklahoma, Texas) are expected to have robust and ongoing growth
1742 workforce supply (Auerbach, Buerhaus, & Staiger, 2016; Ying, et al., 2018). The implications of projected
1743 workforce supply in regions nationwide suggest that access to health services for individuals with IDD
1744 will be affected by geographic region in the US, not only for those who live in rural areas and HPSA. For
1745 areas wherein projected nursing shortages are anticipated to occur, additional efforts with job
1746 recruitment and establishment of additional nursing education programs that include IDD content and
1747 specialization will be needed (Auerbach, Buerhaus, & Staiger, 2016).

1748
1749 The retirement of the generation of baby boomer nurses will shift generational focus to millennials who
1750 will become the largest segment of the nursing workforce (Auerback, et al., 2017). Of concern with the
1751 retirement of experienced nurses of the baby boomer generation amounting to approximately one
1752 million nurses is the loss of the valuable workforce asset of acquired knowledge and skills needed for
1753 the provision of nursing care, which is estimated at 1.7 million years of experience (Buerhaus, et al.,
1754 2017). This projected loss of expertise and experience will be felt for the care provided to individuals
1755 with IDD. This projected gap with the quality of care provided can result in adverse consequences
1756 associated with increases in the rates of hospitalizations and emergency room visits and higher rates of
1757 complications, secondary conditions and co-morbidities (Kleier, 2016; Buerhaus, et al. 2017).

1758 1759 **Nursing Education**

1760
1761 Healthcare consumer needs and the care environment are more complex in the 21st century. Nurses have
1762 to make more critical decisions; be adept at using a variety of sophisticated, life-saving technology and
1763 information management systems; coordinate care among a variety of professional and community
1764 agencies; help healthcare consumers manage their IDD and chronic illnesses; lead change from within
1765 their organizations; and affect national policy that has implications for individuals with IDD and their
1766 parents/guardian(s). Consequently, nursing students need to develop a broader range of competencies in
1767 the areas of health policy and healthcare financing (including understanding health insurance benefits),
1768 community and public health, leadership, quality improvement, information management, and systems
1769 thinking and their application to the IDD population, parents/guardian(s), as well as become excellent
1770 clinicians (IOM, 2011).

1771
1772 According to the IOM (2011), in order to meet this demand, nurses should achieve higher levels of
1773 education, while educational systems and other stakeholders should support seamless academic
1774 progression and include innovative ways for nursing students to achieve their degrees through online,
1775 using virtual, simulated, and competency-based learning. Curricula design should adequately prepare
1776 entry-level nurses and center on optimal patient outcomes. Schools of nursing must also build their
1777 capacities to prepare more graduate-level students to assume roles in advanced practice, leadership,
1778 teaching, and research in the field of IDD (IOM, 2011).
1779

1780 Nursing as a profession continues to face dilemmas in entry into practice, recognition of the autonomy of
1781 advanced practice, maintenance of competence, complexity of multistate licensure, and the appropriate
1782 educational credentials for licensure and professional certification. Registered nurses have a professional
1783 responsibility to maintain competence in their area of practice. Employers who provide opportunities for
1784 professional development and continuing education promote a positive practice environment in which
1785 nurses can maintain and enhance skills and competencies.
1786

1787 This is an exciting time of progress and evolution for interprofessional education, long acknowledged as
1788 the model of excellence for the provision of care to persons with IDD, their parents/legal guardian(s).
1789 According to the AACN (1995, para 1), “interdisciplinary education is when two or more disciplines
1790 collaborate in the learning process with the goal of fostering interprofessional interactions that enhance
1791 the practice of each discipline.” Students from differing professions learn what each brings to the
1792 healthcare team and how each need to foster communication, collaboration, conflict resolution, and
1793 mutual respect before graduation and entry into practice pp. 48-49, (ANA, 2015a).

1794 1795 **Technological Advances**

1796
1797 Technology can drive effectiveness and efficiency, provide convenience, extend care to populations with
1798 little access to transportation, and serve as a major influence on how nurses practice (Huston, 2013;
1799 OECD, 2013). Technology can provide data transparency and offer a better work environment for nurses
1800 when designed and implemented in a manner that supports nurses’ work and work flow. Work
1801 environments include conventional locations—hospitals, clinics, schools, and healthcare consumer
1802 homes—as well as virtual spaces such as online discussion groups, email, interactive video, and virtual
1803 interaction (Cipriano, 2009). Ideally, technology will eliminate redundancy and duplication of
1804 documentation; reduces errors; eliminates interruptions for missing supplies, equipment, and
1805 medications; and eases access to data, thereby allowing the nurse more time with the patient (Cipriano,
1806 2009). Perhaps one of the most daunting challenges for nurses will be to retain the human element in
1807 practice. Other challenges include balancing cost with benefits, the daunting task of training the nursing
1808 workforce with a plan for sustaiment, and assuring ethical use of technology (Huston, 2013).
1809

1810 The IDD nurse recognizes that these technologies are continuously emerging. While it is impossible to
1811 know them all, the IDD nurse should be aware of the proliferation and evolution of potential devices
1812 that serve to support patients with IDD and their families – some that have evidence to support use and
1813 some that may not be evidence-based. The nurse’s technological role would be to inform patients and
1814 families, encouraging them to be informed by evidence rather than by commercials and social media
1815 outlets. Healthcare information technology (HT) is a mainstay in hospitals, clinic, community and home.
1816 Nurses are in a strategic position to tailor how to best use HT while balancing the human element in
1817 practice by actively participating in designing nursing workflow in and around HT.
1818

1819 Assistive technology (AT) refers to tools, equipment, or products that can help people with IDD
 1820 successfully complete activities at school, home, work, and in the community. This can be as simple as a
 1821 magnifying glass to improve vision or as complex as a digital communication system. Staying abreast
 1822 with these AT treatment options require close collaboration with the rehabilitation professionals
 1823 including physiatrist, physical therapist, occupational therapist, speech and language pathologist and
 1824 vocational counselors. Collaboration with these team members allows the nurse to individualize AT that
 1825 is appropriate for each client and family. Nurses who are knowledgeable and proficient with the use of
 1826 AT are better equipped to assist in designing solutions that promote independence in the individual with
 1827 IDD.

1828
 1829 A wide assortment of assistive technologies exists to assist individuals with IDD to be more mobile such
 1830 as wheelchairs, reverse walkers, crutches and orthotic devices. Individuals with sensory impairments
 1831 now have access to a wide variety of AT devices that enhance and support vision and hearing abilities.
 1832 Environmental modifications include the use of grab bars in showers, enlarged doorways and passages
 1833 and ramps and modification of shelving and counters enabling residential access. Durable medical
 1834 equipment includes transfer benches for bathing and toilet assist bars to facilitate independence with
 1835 activities of daily living. Software programs are available to assist individuals with cognitive problems
 1836 such as memory and learning challenges (American Foundation for the Blind, n.d., Center on Technology
 1837 and Disability, 2018; U.S. Department of Health and Human Services. National Institutes of Health.
 1838 Eunice Kennedy Shriver National Institute of Child Health and Human Development, 2018a).

1839
 1840 Rehabilitative technologies (RT) and techniques, also referred to as assistive technology are designed to
 1841 aid individuals, including those with IDD to restore or improve function following an injury or debilitating
 1842 health condition. These disabling health challenges can occur at any time over the lifespan of an
 1843 individual with IDD. These rehabilitation technologies include the use of robots and the use of virtual
 1844 environments. Musculoskeletal modeling and simulations and motion analysis are used for the
 1845 purposes to diagnostic analysis of movement problems. Technologies used for the recovery of
 1846 movement through stimulation of the brain are transcranial direct current stimulation (tDCS) and
 1847 transcranial magnetic stimulation (TMS) U.S. Department of Health and Human Services. National
 1848 Institutes of Health. Eunice Kennedy Shriver National Institute of Child Health and Human Development
 1849 (2018b).

1850
 1851 The use of current and future technologies raises competence issues for IDD registered nurses in terms
 1852 of understanding their appropriateness for delivery of services for individuals with IDD. Questions arise
 1853 in terms of the practice expectations for IDD registered nurses and how to remain clinically competent
 1854 with developments in the field of assistive and rehabilitative technologies. These questions involve not
 1855 only the scope of practice expectations for IDD registered nurses, but also access to the educational
 1856 options to be competent in this area of practice. Issues to consider include:

- 1857 • Should AT and RT classes be offered in nursing curriculum across medical conditions as elective
 1858 or required? Rationale: Nurses know it exists and need to be aware of its potential(s).
- 1859 • Should AT/RT, as a testing section, be required to receive certification from Developmental
 1860 Disabilities Nurses Association (DDNA)?
- 1861 • What type of continuing AT/RT classes (CME) are offered to IDD-nurse specialists?
- 1862 • What type of collaboration is available with the Rehabilitation Department to address AT/RT?
 1863 Rationale: nursing cannot do AT/RT without the Rehabilitation team.

1864

1865 *Population Focus: Redefining Health and Well-being for the Millennial Generation*

1866

1867 The generation designated as Millennials is composed of individuals ages 22 to 37 years born between
1868 1981 to 1996 (U.S. Bureau of the Census, 2017). In 2019, the number of millennials is projected to reach
1869 73 million and will outnumber the baby boomer generation (72 million) for the first time (Fry, 2018). The
1870 Millennial generation is expected to peak in 2036 with 76.2 million (Fry, 2018). Relevant generational
1871 changes have been noted with the millennials in contrast to previous generations, which have
1872 implications for the provision of health services in the future for the population of individuals with IDD.
1873

1874 The current generation, referred to “digital natives” have been raised with exposure to and use of
1875 technology beginning early in their childhood. Technology is used by millennials, depending on their
1876 level of cognitive functioning, for entertainment and educational purposes, to access to personal and
1877 health-related resources, and for social communication. Nearly all millennials (97%) report that they
1878 access the Internet and 92% own smartphones (Fry, Igielnik, & Patten, 2018; Jiang, 2018). Additionally,
1879 access to technology is not relegated to higher income groups; a recent survey revealed that
1880 approximately two-thirds of low-income youth had a mobile phone and nearly 40% had a smart phone.
1881 Well known Internet social media used by millennials include Facebook, Twitter, LinkedIn, and Instagram
1882 (Stephens & Gunther, 2016).
1883

1884 The use of technology for health teaching, health monitoring and communication have an important
1885 role in the provision of services to individuals with IDD and their families. Nurses specialists in the field
1886 of IDD will need to adapt and accommodate technology in the provision of services to remain current
1887 and in touch with the needs of the individuals and families served.
1888

1889 The implications for clinical practice are significant given that the demographic profile of the millennial
1890 generation is vastly different from the previous generations of the baby boomer and the Silent
1891 Generation. This generation of millennials are better educated than the men and women of previous
1892 generations. Women (36%) of the millennial generation with bachelor’s degrees surpass men (29%), a
1893 trend that began with the Generation X in contrast to the previous generations of Baby Boomers and the
1894 Silent Generation. More young women of the Millennial generation (71%) are employed compared to
1895 women of past generations (Fry, Igielnik, & Patten 2018). The millennial generation marries later as
1896 compared to previous generations and is a more racially and diverse generation due in part to
1897 immigration from Latin America and Asia, increased interracial marriages, and high birth rates among
1898 ethnic and racial groups.
1899

1900 Nearly 90% of millennials live in metropolitan areas as contrasted with earlier generations wherein
1901 approximately two-thirds resided in metropolitan areas (Fry, Igielnik, & Patten, 2018). There are now 17
1902 million millennial mothers. In 2016, 82% of all US births were to millennial mothers (Livingston, 2018).
1903 Given the aforementioned demographic characteristics, strategies in working with families will involve
1904 greater collaboration as this generation, unlike previous generations, has efficient and expedient access
1905 to information pertaining to health conditions, diagnostic issues, traditional and complementary
1906 treatments, other health services options and community-based resources. This ready access to
1907 information enables consumers to be health literate consumers of care and to engage in discussions that
1908 require providers to respond to questions and challenges to their expertise. It is also incumbent upon
1909 nurses to be informed about the sources of information parents and consumers access and respond
1910 with replies based upon the best evidence. Issues pertaining to the controversies pertaining to
1911 vaccination and autism are apt examples of access to erroneous information and misconceptions
1912 (American Academy of Pediatrics, 2013, Krishna, 2018).
1913

1914 *Baby Boomers: Health and Chronic Illness*

1915
1916 As the average lifespan of a person in the U.S. with IDD extends into the 60s (Janicki, Dalton, Henderson
1917 & Davidson, 1999). In a study of the life expectancy of Finnish adults with mild ID was comparable to the
1918 general population; the life expectancy of those with moderate, severe and profound ID was less than
1919 the general population (Patja, et al., 2000) This creates a growing population with a new set of needs in
1920 which nurses must integrate new care delivery knowledge and skills. According to testimony given by
1921 Heller (2017, October 25) on Service and Support Needs of Adults Aging with Intellectual/Developmental
1922 Disabilities (Testimony to the U.S. Senate Committee on Aging, 2017), individuals in this population
1923 have a higher risk of developing chronic health conditions at younger ages than other adults, due to the
1924 confluence of biological factors related to syndromes and associated disabilities. With poor access to
1925 adequate health care, as well as lifestyle and environmental issues, their physical health may be
1926 compromised. Furthermore, the report states that people with IDD are less likely to be employed and
1927 those that are employed or retired may need additional services and support as they reach middle and
1928 older ages. These new trajectories in the population of individuals with IDD point to the increased
1929 complexity of problems and the need for increased knowledge of providers and nurses about how to
1930 deal with complex issues of chronic illness and disability (Acharya, Schindler & Heller, 2016).

1931
1932 In addition to IDD health and nursing care needs, parenting takes on a new set of circumstances. Many
1933 parents are having children later in life, resulting in an increased age of parent caregivers (Prouty, Alba,
1934 & Lakin, 2008). Parents of adult children with IDD have special needs that are different from parents of
1935 young, growing children with IDD. Future planning becomes a large part of meeting the needs of their
1936 loved ones who are younger than they are, while at the same time considering their own age-related
1937 changes and needs. The information and support from the healthcare team in general and nurses who
1938 play a significant role in coordinating care in particular can increase a parent caregiver's ability to
1939 advocate for care, increase confidence in their parenting, and assist with navigating the complex array of
1940 services.

1941
1942 It is important for all nurses who work in the IDD communities, as the various generational groups enter
1943 the healthcare system – especially baby boomers who are quickly becoming aging parents with aging
1944 children who have IDD – to recognize the intergenerational differences and healthcare demands of
1945 aging parents along with their adult children. Just as aging people with IDD are likely to bring to their
1946 healthcare encounter a set of complex chronic illnesses that are associated with age, research on
1947 children with disabilities and other impairments has shown that parent caregivers also experience
1948 increased challenges to physical functioning, health status and level of stress (Anderson, Hewitt,
1949 Pettingell, Lulinski, Taylor, & Reagan, 2018; Carling-Jenkins, Torr, Iacono, & Bigby, 2012; Chou, Chiao, &
1950 Fu, 2011). Studies describe that families of children with ID/DD generally favor a lifetime assistance
1951 model – planning for the future and transfer of care (Hewitt et al., 2010). Families caring for an adult
1952 child with a disability can be viewed in context – that a family centered approach to integrating care,
1953 connecting aging parents with needed services for themselves and their child can be best implemented
1954 by nurses with advanced knowledge about disabilities, aging, chronic illness and psychosocial needs of
1955 families. Family Centered Care (FCC) is a philosophical and systematic approach of serving the family as a
1956 unit (Al-Motlaq et al., 2018), knowing that parent-caregivers and children are all stakeholders in meeting
1957 the needs of the individual with IDD.

1958
1959 A model that helps bring individuals, when able, and parents into the decision-making process is shared
1960 decision making (SDM) (Charles, Gafni, & Whelan, 1997) and informed shared decision-making (ISDM)
1961 (Towle, Godolphin, Grams, & La Marre, 2006), where information sharing is a prerequisite to treatment
1962 decisions made by all stakeholders who have reached consensus. Interdisciplinary teams need to work

1963 with both caregivers and their children to support healthcare decisions, self-care independence, and in
 1964 the event when current living arrangement is no longer safe or optimum, decision-making for
 1965 alternative placement with greater supervision and medical oversight. Nurses with advance practice
 1966 skills are key to guide the SDM process.

1967
 1968 Parents approaching retirement age who have adult children with ID/DD who may also be baby
 1969 boomers, have spent a lifetime of caring for the health and welfare of their children. These families
 1970 often first come to the attention of the aging network through referrals from hospital discharge
 1971 planners, friends, and neighbors, especially when the older parents need support due to age-related
 1972 changes in health and function. One of the challenges of the aging population of baby boomers who
 1973 have limited cognitive ability is that throughout their lives, healthcare decisions have not always been
 1974 their own. Today, physicians – and other healthcare providers including nurses – are being taught to
 1975 work toward accepting the patient as an equal partner and developing necessary skills to involve their
 1976 patients as partners in care and decision making (Moulton & King, 2010; Nickel, Weinberger, Guze, et
 1977 al., 2018). Nurses play an integral role in understanding how best to support families and individuals
 1978 with IDD in the shared decision-making process.

1979
 1980 Adults aging with IDD are more likely than adults in the general population to have received life-long
 1981 services and supports. Based on 2015 data, an estimated 71% of individuals with IDD live with their
 1982 family caregiver (s). Of those living with their family caregiver (s), 24% have caregivers aged 60 years and
 1983 older, while another 35% have caregivers aged 41 to 59 years. Only 13 % of adults with IDD live in
 1984 supervised residential settings (Braddock, Hemp, Tanis, Wu & Haffer, 2017). As of 2014, nationally, there
 1985 were nearly 100,000 individuals on waiting lists for residential out-of- home services and over 216,000
 1986 estimated to be waiting for any type of long-term services and supports (Larson et al., 2017).

1987
 1988 Services for adults and aging adults with IDD have transformed over the past decades from segregated
 1989 services; to individualized and person-centered planning for older adults that provide training in
 1990 different activities in the communities and goal setting within their circle of support; to more emphasis
 1991 on the rights to full inclusion in the community, universal design and supported decision-making. The
 1992 latter is described in the Medicaid Home and Community-Based Services Final Rule (Federal Register,
 1993 2014) where home and community-based services (HCBS) provide opportunities for Medicaid
 1994 beneficiaries to receive services in their own home or community rather than institutions or other
 1995 isolated settings. These types of services are woefully in need of competent nurses and an array of
 1996 providers who are aware of the connection of aging and disability.

1997
 1998 As services in the US evolve, the demand for nursing leadership in caring for individuals with IDD grows,
 1999 and especially the need for advance practice nurses with knowledge and skill that is required to meet
 2000 the changing health needs of families. Increased supports for families are integral to helping the many
 2001 adults with IDD who are living at home with family members. Challenges will occur as there is more
 2002 pressure on community-based systems to supply a work force that can support people aging with and
 2003 into disability. There is a growing recognition of family centered services, supportive decision-making
 2004 and interdependence between people across generations. Finally, a need exists for research on better
 2005 ways to bridge aging and disability (Trip, Whitehead, Crowe, Mirfin-Veitch, & Daffue, 2019).

2006
 2007 **Summary of the Scope of IDD Nursing Practice**

2008
 2009 The dynamic nature of the healthcare practice environment and the growing body of
 2010 nursing research provide both the impetus and the opportunity for nursing in IDD to ensure competent

2011 nursing practice in all settings for all individuals with IDD and to promote ongoing professional
2012 development that enhances the quality of nursing practice. *Intellectual and Developmental Disabilities*
2013 *Nursing: Scope and Standards of Practice, Third Edition*, assists that process by delineating the professional
2014 scope and standards of practice and responsibilities of all professional registered nurses engaged in IDD
2015 nursing practice, regardless of setting. As such, it can serve as a basis for:
2016

- 2017 • Quality improvement systems
- 2018 • Regulatory systems
- 2019 • Healthcare reimbursement and financing methodologies
- 2020 • Development and evaluation of nursing service delivery systems and organizational
- 2021 structures
- 2022 • Certification activities
- 2023 • Nursing education guidance
- 2024 • Research guidance
- 2025 • Position descriptions and performance appraisals
- 2026 • Agency policies, procedures, and protocols
- 2027 • Educational offerings
- 2028 • Establishing the legal standard of care
- 2029

2030 **Standards of Professional Nursing Practice**

2031

2032 **Significance of Standards**

2033

2034 The Standards of Professional Nursing Practice are authoritative statements of the duties that all
 2035 registered nurses, regardless of role, population, or specialty, are expected to perform competently. The
 2036 standards published herein may be utilized as evidence of the standard of care, with the understanding
 2037 that application of the standards is context dependent. The standards are subject to change with the
 2038 dynamics of the nursing profession, as new patterns of professional practice are developed and
 2039 accepted by the nursing profession and the public. In addition, specific conditions and clinical
 2040 circumstances may also affect the application of the standards at a given time (e.g., during a natural
 2041 disaster). The standards are subject to formal, periodic review and revision.

2042

2043 The competencies that accompany each standard may be evidence of compliance with the
 2044 corresponding standard. The list of competencies is not exhaustive. Whether a particular standard or
 2045 competency applies depends upon the circumstances. The competencies are presented for the
 2046 registered nurse level and are applicable for *all* nurses who specialize in IDD. Standards may include
 2047 additional competencies delineated for the graduate-level prepared registered nurse, a category that
 2048 also includes advanced practice registered nurses. In some instances, additional discrete competencies
 2049 applicable only to advanced practice registered nurses may be included. These standards apply to the
 2050 nursing care of individuals with IDD of all ages, cultures, socioeconomic backgrounds, and medical
 2051 diagnoses. They further apply to any health care, education, residential, or community setting where
 2052 healthcare consumers with IDD might be. The competencies have been developed to represent quality
 2053 practice and performance in the nursing care of healthcare consumers with IDD.

2054

2055 **Standards of Practice for IDD Nurses**

2056

2057 **Standard 1. Assessment**

2058

2059 The registered nurse who specializes in IDD collects comprehensive data pertinent to the healthcare
 2060 consumer's health and/or the situation.

2061

2062 **Competencies**

2063

2064 The IDD registered nurse:

2065

- 2066 • Collects pertinent data, including but not limited to demographics, social determinants of
 2067 health, health disparities, and physical, functional, psychosocial, emotional, cognitive, sexual,
 2068 cultural, age-related, environmental, spiritual/transpersonal, and economical assessments in a
 2069 systematic, ongoing process with compassion and respect for the inherent dignity, worth, and
 2070 unique attributes of every person. This may involve observation, interviewing, and the use of
 2071 screening and assessment tools. Diagnostic tests may be used as part of the assessment process
 2072 if the nurse has specific training in that area (e.g., developmental diagnostic testing).

2073

- 2074 • Uses analytical models and problem-solving tools that are appropriate for healthcare consumers
 2075 with IDD.

2076

- 2077 • Recognizes the importance of the assessment parameters identified by WHO (World Health
2078 Organization), *Healthy People 2020*, or other organizations that influence nursing practice, in
2079 particular those for conditions that result in an IDD.
2080
- 2081 • Integrates knowledge from global and environmental factors into the assessment process.
2082
- 2083 • Elicits the healthcare consumer with IDD's values, preferences, expressed and unexpressed
2084 needs, and knowledge of the healthcare situation along with that of their family/legal
2085 guardian(s).
2086
- 2087 • Involves the healthcare consumer with IDD, family/legal guardian(s), other healthcare and
2088 interdisciplinary professionals and paraprofessionals, and the work and home environment, as
2089 appropriate, in holistic data collection.
2090
- 2091 • Recognizes the impact of one's own personal attitudes, values, and beliefs on the assessment
2092 process.
2093
- 2094 • Identifies barriers to effective communication based on psychosocial, literacy, financial, and
2095 cultural considerations.
2096
- 2097 • Assesses the impact of family dynamics on the healthcare consumer with IDD's health and
2098 wellness.
2099
- 2100 • Engages the healthcare consumer with IDD, their family/legal guardian(s) and other
2101 interprofessional team members in holistic, culturally sensitive data collection.
2102
- 2103 • Prioritizes data collection based on the healthcare consumer with IDD's immediate condition or
2104 the anticipated needs of the healthcare consumer with IDD or situation.
2105
- 2106 • Uses evidence-based assessment techniques, instruments, tools, available data, information,
2107 and knowledge relevant to the situation to identify patterns and variances, including, but not
2108 limited to, genetic studies, special serum screening (e.g., cystic fibrosis, Tay-Sachs, sickle cell
2109 disease), nutritional needs and metabolic functioning, and any other condition-specific data
2110 measures.
2111
- 2112 • Synthesizes all data, information, and knowledge from the healthcare consumer with IDD, family
2113 members/legal guardian(s), the interprofessional team, and individual's environment that is
2114 relevant to the situation to identify patterns and variances This may involve data and
2115 information from the school, work site, and/or residential setting.
2116
- 2117 • Applies ethical, legal, and privacy guidelines and policies to the collection, maintenance, use,
2118 and dissemination of data and information.
2119
- 2120 • Recognizes the healthcare consumers with IDD have authority over their own health by
2121 honoring their care preferences. As legally appropriate, a guardian may be involved in
2122 identifying and expressing those preferences.

2123

- 2124
- Documents relevant data accurately and in a manner accessible to the interprofessional team.

2125 **Additional competencies for the graduate-level prepared registered nurse who specializes in IDD**

2126

2127 In addition to the registered nurse competencies, the graduate-level prepared registered nurse:

2128

- 2129
- Assesses the effect of interactions among individuals, family/legal guardian(s), community, and social systems on health and illness of the healthcare consumer with IDD.

2130

2131

- 2132
- Synthesizes the results and information leading to clinical understanding.

2133

2134 **Additional competencies for the advanced practice registered nurse who specializes in IDD**

2135

2136 In addition to the competencies of the registered nurse and the graduate-level prepared registered nurse, the advanced practice registered nurse who specializes in IDD:

2137

2138

- 2139
- Initiates diagnostic tests and procedures relevant to the healthcare consumer with IDD's current status.

2140

2141

- 2142
- Uses advanced assessment, knowledge, and skills to maintain, enhance, or improve health conditions for the healthcare consumer with IDD.

2143

2144

2145 **Standard 2. Diagnosis**

2146

2147 The registered nurse who specializes in IDD analyzes assessment data to determine diagnoses, problems, and issues.

2148

2149

2150 **Competencies**

2151

2152 The IDD registered nurse:

2153

- 2154
- Identifies actual or potential risks to the healthcare consumer with IDD's health and safety or barriers to health, which may include but are not limited to interpersonal, systematic, cultural, or environmental circumstances.

2155

2156

2157

- 2158
- Uses assessment data, standardized classification systems, technology, and clinical decision support tools to articulate actual or potential diagnoses, problems, and issues.

2159

2160

- 2161
- Verifies the diagnoses, problems, and issues with the individual with IDD, family/legal guardian(s), community, population, and interprofessional colleagues.

2162

2163

- 2164
- Prioritizes diagnoses, problems, and issues based on mutually established goals to meet the needs of the healthcare consumer with IDD across the health-illness continuum.

2165

2166

- 2167
- Documents diagnoses, problems, and issues in a manner that facilitates the determination of the expected outcomes and plan.

2168

2169

2170 **Additional competencies for the graduate-level prepared registered nurse who specializes in IDD**

2171

2172 In addition to the competencies of the registered nurse, the graduate-level prepared registered nurse
2173 who specializes in IDD:

2174

2175 • Uses information and communication technologies to analyze diagnostic practice patterns of
2176 nurses and other members of the interprofessional healthcare team.

2177

2178 • Employs aggregate-level data to articulate diagnoses, problems, and issues of healthcare
2179 consumers with IDD and organizational systems.

2180

2181 **Additional competencies for the advanced practice registered nurse who specializes in IDD**

2182

2183 In addition to the competencies of the registered nurse and the graduate-level prepared registered
2184 nurse, the advanced practice registered nurse who specializes in IDD:

2185

2186 • Formulates a differential diagnosis based on the assessment (including developmental), history,
2187 physical examination, and diagnostic test results.

2188

2189 • Systematically compares the history and clinical findings with normal and abnormal variations
2190 and developmental events in formulating differential diagnoses, including specific values,
2191 ranges, and outcomes for a specific diagnosis (e.g., Down syndrome).

2192

2193 • Serves as a consultant to the registered nurse and other staff in developing and maintaining
2194 competence in the diagnostic process.

2195

2196 • Analyzes accessibility and availability of services, barriers to adequate health care, specific
2197 populations at high risk, health promotion needs for specific populations, and environmental
2198 hazards that may affect the health of healthcare consumers with IDD.

2199

2200 **Standard 3. Outcomes identification**

2201

2202 The registered nurse who specializes in IDD identifies expected outcomes for a plan individualized to the
2203 healthcare consumer with IDD and/or the situation.

2204

2205 **Competencies**

2206

2207 The IDD registered nurse:

2208

2209 • Engages the healthcare consumer with IDD, family/legal guardian(s), interprofessional team,
2210 and others in partnership to identify expected outcomes.

2211

2212 • Formulates culturally sensitive expected outcomes derived from assessments and diagnoses.

2213

2214

2215 • Uses clinical expertise and current evidence-based practice to identify health risks, benefits,
2216 costs, and/or expected trajectory of the condition.

2217

2218

- 2214 • Collaborates with the healthcare consumer with IDD and their family/legal guardian(s) to define
 2215 expected outcomes integrating the healthcare consumer with IDD and their family
 2216 members/legal guardian(s)' culture, values, and ethical considerations.
 2217
- 2218 • Generates a time frame for the attainment of expected outcomes.
 2219
- 2220 • Develops expected outcomes that facilitate coordination of care and person-centered care as
 2221 appropriate.
 2222
- 2223 • Modifies expected outcomes based on the evaluation of the status (i.e., health, social, living,
 2224 economic, and/or legal) of the healthcare consumer with IDD and situation.
 2225
- 2226 • Documents expected outcomes as measurable goals.
 2227
- 2228 • Evaluates the actual outcomes in relation to expected outcomes, safety, and quality standards.
 2229

2230 **Additional competencies for the graduate-level prepared registered nurse who specializes in IDD,**
 2231 **including the APRN who specializes in IDD**
 2232

2233 In addition to the competencies of the registered nurse, the graduate-level prepared registered nurse or
 2234 advanced practice registered nurse who specializes in IDD:
 2235

- 2236 • Defines expected outcomes that incorporated cost, clinical effectiveness, legal and ethical
 2237 boundaries, among the individual with IDD, family/legal guardian(s), healthcare providers, and
 2238 are aligned with the outcomes identified by members of the interprofessional team.
 2239
- 2240 • Differentiates outcomes that require care process interventions from those that require system-
 2241 level actions.
 2242
- 2243 • Integrates scientific evidence and best practices to achieve expected outcomes.
 2244
- 2245 • Advocates for outcomes that reflect the healthcare consumer's culture, values, and ethical
 2246 concerns.
 2247

2248 **Standard 4. Planning**
 2249

2250 The registered nurse who specializes in IDD develops a plan that prescribes strategies and alternatives to
 2251 attain expected, measurable outcomes.
 2252

2253 **Competencies**
 2254

2255 The IDD registered nurse:
 2256

- 2257 • Develops an individualized, holistic, evidence-based plan in partnership with the healthcare
 2258 consumer with IDD, their family/legal guardian(s), and interprofessional tea considering the
 2259 person's characteristics or situation, including but not limited to values, beliefs, spiritual and

- 2260 health practices, preferences, choices, chronological age and developmental level, coping style,
 2261 culture, available technology, and the least restrictive environment.
 2262
- 2263 • Establishes the plan priorities with the healthcare consumer with IDD, their family/legal
 2264 guardian(s), and interprofessional team.
 2265
 - 2266 • Advocates for responsible and appropriate use of interventions to minimize unwarranted or
 2267 unwanted treatment and/or healthcare consumer suffering.
 2268
 - 2269 • Prioritizes elements of the plan based on the assessment of the healthcare consumer with IDD's
 2270 level of risk and safety needs.
 2271
 - 2272 • Includes evidence-based strategies in the plan to address each of the identified diagnoses,
 2273 problems, or issues. These strategies may include but are not limited to:
 - 2274 ○ Promotion and restoration of health,
 - 2275 ○ Prevention of illness, injury, and disease,
 - 2276 ○ Facilitation of healing,
 - 2277 ○ Alleviation of suffering, and
 - 2278 ○ Supportive care
 2279
 - 2280 • Incorporates an implementation pathway that describes steps and milestones.
 2281
 - 2282 • Identifies cost and economic implications of the plan on the healthcare consumer with IDD,
 2283 family/legal guardian(s), caregivers, or other affected parties.
 2284
 - 2285 • Integrates current scientific evidence, trends, and research affecting comprehensive care of
 2286 healthcare consumers of all ages with IDD into the planning process.
 2287
 - 2288 • Uses the plan to provide direction to family members/legal guardian(s) and other members of
 2289 the healthcare and interprofessional team.
 2290
 - 2291 • Develops a plan that reflects compliance with current statutes, rules and regulations, and
 2292 standards affecting comprehensive care of healthcare consumers of all ages with IDD into the
 2293 planning process.
 2294
 - 2295 • Investigates practice settings and safe space and time for the nurse and the healthcare
 2296 consumer with IDD to explore suggested, potential, and alternative options.
 2297
 - 2298 • Modifies the plan according to the ongoing assessment of the healthcare consumer with IDD's
 2299 response and other outcome indicators.
 2300
 - 2301 • Documents the plan using standardized, person-first language or recognized terminology.
 2302

2303 **Additional competencies for the graduate-level prepared registered nurse who specializes in IDD**

2304
 2305 In addition to the competencies of the registered nurse, the graduate-level prepared registered nurse
 2306 who specializes in IDD:

- 2307
- 2308 • Designs strategies and tactics to meet the multifaceted and complex needs of healthcare
- 2309 consumers with IDD or other.
- 2310
- 2311 • Leads the design and development of interprofessional processes to address the identified
- 2312 diagnoses, problems, or issues.
- 2313
- 2314 • Designs innovative nursing practices.
- 2315
- 2316 • Participates actively in the development and continuous improvement of systems that support
- 2317 the planning process.
- 2318

2319 **Additional competencies for the advanced practice registered nurse who specializes in IDD**

2320

2321 In addition to the competencies of the registered nurse and graduate-level prepared registered nurse,

2322 the advanced practice registered nurse who specializes in IDD:

2323

- 2324 • Integrates assessment strategies, screening and diagnostic strategies, and therapeutic
- 2325 interventions that reflect current evidence-based knowledge and practice.
- 2326 • Selects or designs strategies to meet the multifaceted and complex needs of healthcare
- 2327 consumers with IDD.
- 2328 • Includes in the plan a synthesis of the values and beliefs of the healthcare consumer with IDD
- 2329 regarding nursing, medical, social, and educational therapies.
- 2330 • Leads the design and development of interprofessional processes to address the identified
- 2331 diagnosis, situation, or issue.
- 2332 • Participates actively in the development and continuous improvement of organizational systems
- 2333 that support the planning process.
- 2334 • Supports the integration of clinical, human, and financial resources to enhance and complete
- 2335 the decision-making and evaluation processes.
- 2336 • Serves as a consultant to the registered nurse to plan development, priority setting, cost-benefit
- 2337 analysis, and identification of resources, as needed.
- 2338 • Collaborates with the registered nurse and other members of the interprofessional team, and in
- 2339 partnership with the community, derives community-focused plans that are based on identified
- 2340 problems, conditions, or needs that build on the strengths of the community.
- 2341 • Develops plans that ensure continuity of care and minimize or eliminate gaps and duplications
- 2342 of services.
- 2343

2344 **Standard 5. Implementation**

2345

2346 The registered nurse who specializes in IDD implements the identified plan.

2347

2348 **Competencies**

2349

2350 The IDD registered nurse:

2351

- 2352 • Partners with the healthcare consumer with IDD, their family/legal guardian(s), significant
2353 others, and caregivers as appropriate to implement the plan in a safe, effective, efficient, timely,
2354 patient-centered, and equitable manner (IOM, 2010).
2355
- 2356 • Integrates interprofessional team partners in implementation of the plan through collaboration
2357 and communication across the continuum of care.
2358
- 2359 • Demonstrates caring behaviors to develop therapeutic relationships with healthcare consumers
2360 with IDD, significant others, and groups of people receiving care.
2361
- 2362 • Provides culturally congruent, holistic, and person-centered care that focuses on the healthcare
2363 consumer with IDD and addresses and advocates for the needs of diverse populations across the
2364 lifespan.
2365
- 2366 • Uses evidence-based interventions and strategies to achieve the mutually identified goals and
2367 outcomes specific to the problem or needs.
2368
- 2369 • Integrates critical thinking and technology solutions to implement the nursing process to collect,
2370 measure, record, retrieve, trend, and analyze data and information to enhance nursing practice
2371 and healthcare consumer outcomes.
2372
- 2373 • Uses community resources and systems to implement the plan.
2374
- 2375 • Collaborates with nursing colleagues and other healthcare providers from diverse backgrounds
2376 to implement and integrate the plan.
2377
- 2378 • Accommodates different styles of communication used by healthcare consumers with IDD,
2379 families/legal guardian(s), members of the interprofessional team, and other healthcare
2380 providers.
2381
- 2382 • Delegates according to the health, safety, and welfare of the healthcare consumer with IDD and
2383 considering the circumstance, person, task, direction or communication, supervision, evaluation,
2384 as well as the state nurse practice act regulations, institution, and regulatory entities while
2385 maintaining accountability for the care.
2386
- 2387 • Promotes the capacity of the healthcare consumer with IDD to achieve the optimal level of
2388 participation and problem-solving.
2389
- 2390 • Documents implementation and any modifications, including accommodations and changes or
2391 omissions, of the identified plan.
2392

Additional competencies for the graduate-level prepared registered nurse who specializes in IDD

2393 In addition to the competencies of the registered nurse, the graduate-level prepared registered nurse
2394 who specializes in IDD:
2395
2396
2397

- 2398 • Uses systems, organizations, and community resources to lead effective changes and implement
2399 the plan.
- 2400
- 2401 • Applies quality principles while articulating methods, tools, performance measures, and
2402 standards as they relate to implementation of the plan.
- 2403
- 2404 • Translates evidence into practice.
- 2405
- 2406 • Leads interprofessional teams to communicate, collaborate, and consult effectively.
- 2407
- 2408 • Demonstrates leadership skills that emphasize ethical and critical decision-making, effective
2409 working relationships, and systems perspective.
- 2410
- 2411 • Serves as a consultant to provide additional insight and potential solutions.
- 2412
- 2413 • Uses theory-driven approaches to effect organizational or system change.
- 2414

Additional competencies for the advanced practice registered nurse who specializes in IDD

In addition to the competencies of the registered nurse and graduate-level prepared nurse, the advanced practice registered nurse who specializes in IDD:

- 2419
- 2420 • Uses prescriptive authority, procedures, referrals, treatments, and therapies in accordance with
2421 state and federal laws and regulations.
- 2422
- 2423 • Facilitates use of systems, organizations, and community resources to implement the plan.
- 2424
- 2425 • Uses advanced communication skills to promote relationships between nurses and healthcare
2426 consumers with IDD, to provide a context for open communication about the healthcare
2427 consumer's experiences, and to improve healthcare consumer outcomes.
- 2428
- 2429 • Participates actively in the development and continuous improvement of systems that support
2430 implementation of the plan.
- 2431
- 2432 • Prescribes traditional and integrative evidence-based treatments, therapies, and procedures
2433 that are compatible with the healthcare consumer with IDD's cultural preferences and norms.
- 2434
- 2435 • Prescribes evidence-based pharmacological agents and treatments according to clinical
2436 indicators and results of screening, diagnostic, and laboratory tests.
- 2437
- 2438 • Supports collaboration with nursing colleagues and other members of the interprofessional
2439 team to implement the plan.
- 2440
- 2441 • Provides clinical consultation for healthcare consumers with IDD and professionals related to
2442 complex clinical cases to improve care and patient outcomes.
- 2443

- Implements the plan using principles of project or systems management.

2445

2446

2447 **Standard 5A. Coordination of Care**

2448

2449 The registered nurse who specializes in IDD coordinates care delivery. Coordination of care requires that
2450 the nurse work closely with individuals with IDD, families, community resources and other health
2451 systems.

2452

2453 **Competencies**

2454

2455 The IDD registered nurse:

2456

- Organizes the components of the plan.

2458

- Collaborates with the consumer with IDD and the family/legal guardian(s), as appropriate, to help manage healthcare based on mutually agreed upon outcomes.

2460

2461

- Manages a healthcare consumer with IDD's care in order to reach mutually agreed upon outcomes.

2463

2464

- Engages healthcare consumers with IDD in self-care to achieve preferred goals for quality of life in partnership with family/legal guardian(s).

2466

2467

- Assists the healthcare consumer with IDD and the family/legal guardian(s), as appropriate, to identify options for care.

2469

2470

- Communicates with the healthcare consumer with IDD, family/legal guardian(s), interprofessional team, and community-based personnel to effect safe transitions in continuity of care.

2473

2474

- Advocates for the delivery of dignified and holistic care by the interprofessional team.

2475

2476

2477

2478

- Documents the coordination of care.

2479

2480

- Provides direction or supervision to ancillary and unlicensed personnel who provide health care to healthcare consumers with IDD and their families/legal guardian(s).

2481

2482

2483

2484

2485

2486

2487

2488

2489

- 2490 • Employs strategies to promote health in home and community settings that are safe and utilize
 2491 the least restrictive alternatives.
 2492

2493 **Additional competencies for the graduate-level prepared registered nurse who specializes in IDD**
 2494

2495 In addition to the competencies of the registered nurse, the graduate-level prepared registered nurse
 2496 who specializes in IDD:
 2497

- 2498 • Provides leadership in the coordination of interprofessional healthcare for integrated delivery of
 2499 healthcare consumer services to achieve safe, effective, efficient, timely, patient-centered, and
 2500 equitable care (IOM, 2010).
 2501

2502 **Additional competencies for the advanced practice registered nurse who specializes in IDD**
 2503

2504 In addition to the competencies of the registered nurse and graduate-level prepared registered nurse,
 2505 the advanced practice registered nurse who specialize in IDD:
 2506

- 2507 • Manages identified consumer panels or populations.
 2508
 2509 • Serves as the healthcare consumer with IDD's primary care provider and coordinator of
 2510 healthcare services in accordance with the state and federal laws and regulations.
 2511
 2512 • Provides leadership in the coordination of interprofessional health care for integrated delivery
 2513 of healthcare services for the healthcare consumer with IDD.
 2514
 2515 • Synthesizes data and information to prescribe and provide necessary system and community
 2516 support measures, including modifications of environments.
 2517
 2518 • Coordinates system and community resources that enhance delivery of care across continuums.
 2519

2520 **Standard 5B. Health Teaching and Health Promotion**
 2521

2522 The registered nurse who specializes in IDD employs strategies to promote health, prevention of
 2523 secondary disability, and a safe environment.
 2524

2525 **Competencies**
 2526

2527 The IDD registered nurse:
 2528

- 2529 • Provides opportunities for the healthcare consumer with IDD to identify needed healthcare
 2530 promotion, disease prevention, and self-management topics.
 2531
 2532 • Provides health teaching that addresses such topics as healthy lifestyles, risk-reducing
 2533 behaviors, developmental needs, activities of daily living, self-care concepts, and preventive self-
 2534 care.
 2535

- 2536 • Uses health promotion and health teaching methods in collaboration with the healthcare
2537 consumer with IDD's values, beliefs, health practices, developmental level, learning needs,
2538 readiness and ability to learn, language preference, spirituality, culture, and socioeconomic
2539 status.
- 2540
- 2541 • Uses feedback and evaluations from the healthcare consumer with IDD, family/legal guardian(s),
2542 and caregivers, as appropriate, to determine the effectiveness of the employed strategies.
- 2543
- 2544 • Uses technologies to communicate health promotion and disease prevention information to the
2545 healthcare consumer with IDD and their families/legal guardian(s) in a variety of settings.
- 2546
- 2547 • Provides healthcare consumers with IDD and their families/legal guardian(s) with information
2548 about intended effects and potential adverse effects of the plan of care.
- 2549
- 2550 • Engages consumer alliance and advocacy groups in health teaching and health promotion
2551 activities for healthcare consumers with IDD.
- 2552
- 2553 • Provides anticipatory guidance to healthcare consumers with IDD and their families/legal
2554 guardian(s) to promote health and prevent or reduce the risk of negative health outcomes.
- 2555

2556 **Additional competencies for the graduate-level prepared registered nurse, including the APRN who**
2557 **specializes in IDD**

2558
2559 In addition to the competencies of the registered nurse, the graduate-level prepared registered nurse or
2560 advanced practice registered nurse who specializes in IDD:

- 2561
- 2562 • Synthesizes empirical evidence on risk behaviors, gender roles, learning theories, behavioral
2563 change theories, motivational theories, translational theories for evidence-based practice,
2564 epidemiology, and other related theories and frameworks when designing health education
2565 information and programs.
- 2566
- 2567 • Evaluates health information resources for applicability, accuracy, readability, and
2568 comprehensibility to help healthcare consumers with IDD, family/legal guardian(s), and other
2569 members of the interprofessional team access quality health information.
- 2570
- 2571 • Conducts personalized health teaching and counseling considering comparative effectiveness
2572 research recommendations.
- 2573
- 2574 • Designs health information and healthcare consumer education appropriate to the
2575 developmental level, learning needs, readiness to learn, and cultural values and beliefs of the
2576 healthcare consumer with IDD.
- 2577
- 2578 • Provides anticipatory guidance to individuals with IDD, families/legal guardian(s), groups, and
2579 communities to promote health and prevent or reduce the risk of health problems.
- 2580

2581 **Standard 6. Evaluation**
2582

2583 The registered nurse who specializes in IDD evaluates progress toward attainment of goals and
 2584 outcomes.

2585

2586 **Competencies**

2587

2588 The IDD registered nurse:

2589

2590 • Conducts a holistic, systematic, ongoing, and criterion-based evaluation of the goals and
 2591 outcomes in a relation to the structure, processes, and timeline prescribed in the plan.

2592

2593 • Collaborates with the healthcare consumer with IDD, family/legal guardian(s), members of the
 2594 interprofessional team, and others involved in the care or situation in the evaluation process.

2595

2596 • Determines, in partnership with the healthcare consumer with IDD and other stakeholders, the
 2597 patient-centeredness, effectiveness, efficiency, safety, timeliness, and equitability (IOM, 2001)
 2598 of the strategies in relation to the responses to the plan and attainment of outcomes. Other
 2599 defined criteria (e.g., Quality and Safety Education for Nurses) may be used as well.

2600

2601 • Uses ongoing assessment data to revise the diagnosis, outcomes, plan, and implementation
 2602 strategies.

2603

2604 • Shares evaluation data and conclusions with the healthcare consumer with IDD and other
 2605 stakeholders in accordance with federal and state regulations.

2606

2607 • Participates in assessing and assuring the responsible and appropriate use of interventions in
 2608 order to minimize unwarranted and unwanted treatment and healthcare consumer suffering.

2609

2610 • Documents the results of the evaluation.

2611

2612 **Additional competencies for the graduate-level prepared registered nurse, including the APRN who
 2613 specializes in IDD**

2614

2615 In addition to the competencies of the registered nurse, the graduate-level prepared registered nurse or
 2616 the advanced practice registered nurse who specializes in IDD:

2617

2618 • Evaluates the accuracy of the diagnosis and the effectiveness of the interventions and other
 2619 variables in relation to the attainment of expected outcomes.

2620

2621 • Synthesizes evaluation data from the healthcare consumer with IDD, their family/legal
 2622 guardian(s), caregivers, community, population and/or institution to determine the
 2623 effectiveness of the plan.

2624

2625 • Engages in a systematic evaluation process to revise the plan to enhance its effectiveness.

2626

2627 • Uses results of the evaluation to make or recommend process, policy, procedure, or protocol
 2628 revisions when warranted.

2629

2630 **Standards of Professional Performance for IDD Nurses**

2631 **Standard 7. Ethics**

2632 The registered nurse who specializes in IDD practices ethically.

2633 **Competencies**

2634 The IDD registered nurse:

- 2635 • Uses the *Code of Ethics for Nurses with Interpretive Statements* (ANA, 2015) to guide practice.
- 2636 • Practices compassion and respect for the inherent dignity, worth and unique attributes the
2637 healthcare consumer with IDD, family/legal guardian(s).
- 2638 • Is committed to the healthcare consumer with IDD, their family/guardian(s), circle of support,
2639 community or populations.
- 2640 • Recognizes the centrality of the healthcare consumer with IDD and family/legal guardian(s) as
2641 core members of any healthcare team.
- 2642 • Upholds confidentiality of the healthcare consumer with IDD within legal and regulatory
2643 parameters.
- 2644 • Serves as advocate for the healthcare consumer with IDD and family/legal guardian(s) by
2645 supporting the development of their advocacy and self-advocacy skills.
- 2646 • Maintains a therapeutic and professional relationship with the healthcare consumer with IDD
2647 within appropriate professional role boundaries.
- 2648 • Protects, promotes, and advocates for the health and safety of the healthcare consumer with
2649 IDD and their family/guardian(s).
- 2650 • Has authority, accountability, and responsibility for the nursing practice act; makes decisions;
2651 and takes actions consistent with the obligation to promote health and provide optimal care of
2652 the healthcare consumer with IDD and their family/guardian(s).
- 2653 • Owes the same duties to self as to others, including the responsibility to promote health and
2654 safety for consumers with IDD, their family/guardian(s); preserve wholeness of character and
2655 integrity, maintain competence, and continue personal and professional growth
- 2656 • Establishes, maintains, and improves the ethical environment of the work setting and conditions
2657 of employment that are conducive to safe, quality health care for the consumer with IDD,
2658 family/guardian(s) and colleagues.
- 2659 • Takes appropriate action regarding instances of illegal, unethical, or inappropriate behavior that
2660 can endanger or jeopardize the best interests of the healthcare consumer with IDD or situation.

- 2661 • Questions healthcare practice when necessary for safety and quality improvement.
- 2662 • Advocates for equitable healthcare consumer care.
- 2663 • Informs administrators or others of the risks, benefits, and outcomes of programs and decisions
2664 that affect healthcare delivery.
- 2665 • Respects the right of the healthcare consumer with IDD to self-determination and inclusion the
2666 healthcare consumer in decisions unless the healthcare consumer's incapacity to participate in a
2667 specific decision is demonstrated. Family or a legally designated guardian(s) is included in
2668 decision-making or makes the decision as a surrogate decision-maker if legally required.
- 2669 • Identifies a surrogate for healthcare decisions in lieu of a formal guardianship process, when
2670 appropriate and in accordance with local and/or state statutes.
- 2671 • Advocates for the healthcare consumer with IDD in self-determination decisions when in conflict
2672 with the surrogate decision-maker.
- 2673 • Facilitates the self-determination decisions of the healthcare consumer with IDD in all
2674 healthcare settings.
- 2675 • Acts as an advocate for the healthcare consumer with IDD and family/legal guardian(s) and
2676 initiates referral to a qualified advocate for healthcare consumers with IDD when appropriate.
- 2677 • Works to prevent abuse or exploitation of the healthcare consumer with IDD and promptly
2678 responds to suspicion or evidence by reporting to appropriate authorities.
- 2679 • Assists in assuring that the living arrangement for the healthcare consumer with IDD is the most
2680 appropriate and inclusive environment.
- 2681 • Contributes to the educational program recommendations and advocates for inclusive
2682 environments to maximize the potential of the healthcare consumer with IDD.
- 2683 • Contributes to the life plan via advocacy for the most appropriate employment situation for the
2684 healthcare consumer with IDD. The nurse assists in identifying reasonable accommodations to
2685 maximize the healthcare consumer's performance and satisfaction with chosen employment.
- 2686 • Assists in the referral process for local, state, regional, and federal assistance programs.
- 2687 • Supports the expression of sexuality of the healthcare consumer with IDD in a manner that is
2688 consistent with the healthcare consumer's native culture, gender preference, religious
2689 upbringing, family values, and level of maturity and provides counseling as appropriate.
- 2690 • Contributes to an environment that protects the healthcare consumer with IDD from sexual
2691 exploitation at home, school, work, and community.

- 2692 • Serves as an advocate to ensure that the healthcare consumer with IDD receives coordinated,
2693 continuous, and accessible health care that is provided by a professional who is competent in
2694 managing health concerns of healthcare consumers with IDD and family/guardian(s).
- 2695 • Provides or arranges for effective and appropriate palliative care for healthcare consumers with
2696 IDD who undergo tests or treatments for illnesses, have chronic conditions, and/or are at the
2697 end of life.
- 2698 • Advocates for life-sustaining treatment or refusal/withdrawal of life-sustaining treatment as the
2699 healthcare consumer with IDD and family or legal guardian(s) decide.
- 2700 • Provides support and resources for end-of-life care, grief, and bereavement when healthcare
2701 consumers with IDD experience loss.
- 2702 • Participates on interprofessional teams that address ethical risks, benefits, and outcomes.
- 2703 • Advances the profession through research and scholarly inquiry, professional standards
2704 development, and influences the generation of both nursing and health policy.
- 2705 • Collaborates with other health professionals and the public to protect human rights, promote
2706 health diplomacy, and reduce health disparities for the healthcare consumer with IDD and their
2707 family/legal guardian(s).
- 2708 • Articulates nursing values in work with professional organizations
- 2709 • Maintains the integrity of the profession
- 2710
- 2711 • Integrates principles of social justice into nursing and health policy on behalf of consumers with
2712 IDD, their families and legal guardian(s).

2713 **Additional competencies for the advanced practice registered nurse**

2714 The advanced practice registered nurse who specializes in IDD:

- 2715 • Informs the healthcare consumer with IDD and family/legal guardian(s) of the risks, benefits,
2716 and outcomes of healthcare regimens to allow informed decision-making, including informed
2717 consent and informed refusal.

2718 **Standard 8. Culturally Congruent Practice**

2719 The registered nurse who specializes in IDD practices in a manner that is congruent with cultural
2720 diversity and inclusion principles, especially as it relates to individuals with IDD.

2721 **Competencies**

2722 The IDD registered nurse:

- 2723 •Demonstrates respect, equity, and empathy in actions and interactions with all healthcare
2724 consumers with IDD and families/legal guardian(s).
- 2725 •Participates in life-long learning to understand cultural preferences, worldview, choices, and
2726 decision-making processes of diverse consumers with IDD and their families/legal guardian(s).
- 2727 •Creates an inventory of one’s own values, beliefs, and cultural heritage.
- 2728 •Applies knowledge of variations in health beliefs, practices, and communication patterns in all
2729 nursing practice activities.
- 2730 •Identifies the stage of the consumer’s acculturation and accompanying patterns of needs and
2731 engagement.
- 2732 •Considers the effects and impact of discrimination and oppression on practice within and among
2733 vulnerable cultural groups.
- 2734 •Uses skills and tools that are appropriately vetted for the culture, literacy, and language of the
2735 population with IDD and their families/legal guardian(s) served.
- 2736 •Communicates with appropriate language and behaviors, including the use of medical interpreters
2737 and translators and assistive devices in accordance with consumer with IDD and family/legal
2738 guardian(s) preferences.
- 2739 •Identifies the cultural-specific meaning of interactions, terms, and content.
- 2740 •Respects consumer with IDD decisions based on age, tradition, belief and family influence, and
2741 stage of acculturation.
- 2742 •Advocates for policies that promote health and prevent harm among culturally diverse, under-
2743 served, or under-represented consumers with IDD, their families/legal guardian(s).
- 2744 •Promotes equal access for consumers with IDD, families/legal guardian(s) to services, tests,
2745 interventions, health promotion programs, enrollment in research, education, and other
2746 opportunities.
- 2747 •Educates nurse colleagues and other professionals about cultural similarities and differences of
2748 healthcare consumers with IDD, families/legal guardian(s), groups, communities, and
2749 populations.

2750 **Additional competencies for the graduate-level prepared registered nurse**

2751 In addition to the competencies of the registered nurse, the graduate-level prepared registered nurse
2752 who specializes in IDD:

- 2753 •Evaluates tools, instruments, and services provided to culturally diverse populations.
- 2754 •Advances organizational policies, programs, services, and practice that reflect respect, equity, and
2755 values for diversity and inclusion of consumers with IDD and families/legal guardian(s).

- 2756 •Engages consumers with IDD, families/legal guardian(s), key stakeholders, and others in designing
2757 and establishing internal and external cross-cultural partnerships.
- 2758 •Conducts research to improve health care and healthcare outcomes for culturally diverse
2759 consumers with IDD and their families/legal guardian(s).
- 2760 •Develops recruitment and retention strategies to achieve a multicultural workforce.

2761 **Additional competencies for the advanced practice registered nurse**

2762 In addition to the competencies of the registered nurse and graduate-level prepared registered nurse, the
2763 advanced practice registered nurse who specializes in IDD:

- 2764 •Promotes shared decision-making solutions in planning, prescribing, and evaluating processes
2765 when the healthcare consumer's with IDD and their families/legal guardian(s) cultural
2766 preferences and norms may create incompatibility with evidence-based practice.
- 2767 •Leads interprofessional teams to identify the cultural and language needs of the consumer with
2768 IDD and family/legal guardian(s).

2769 **Standard 9. Communication**

2770 The registered nurse who specializes in IDD communicates effectively in a variety of formats in all areas
2771 of practice.

2772 **Competencies**

2773 The IDD registered nurse:

- 2774 • Conveys information to healthcare consumers, families/legal guardian(s), the interprofessional
2775 team, and others in communication formats that promote accuracy, health literacy and in the
2776 native language of non-English speakers.
- 2777 • Discloses observations or concerns related to hazards and errors in care or the practice
2778 environment to the appropriate level of professional and/or institutional oversight and
2779 regulation.
- 2780 • Establishes communication with other providers to minimize risks associated with forthcoming
2781 and actual transfers and transition in care delivery.
- 2782 • Contributes her or his own professional perspectives in discussions pertaining to the care of
2783 individuals with IDD, their families/legal guardian(s) with the interprofessional team.
- 2784 • Uses current knowledge of the adaptive, and communication skills of the healthcare consumer
2785 with IDD to communicate effectively with the healthcare consumer.

2786 • Facilitates communication between the healthcare consumer with IDD, family/legal guardian(s),
 2787 and members of the interprofessional team, building on the adaptive and communication
 2788 strengths of the healthcare consumer with IDD.

2789 • Confers with interdisciplinary team members including speech and language specialists and
 2790 audiologists on the need of the individual with IDD to use assistive devices and hearing aids for
 2791 communication.

2792

2793 **Standard 10. Collaboration**

2794 The registered nurse who specializes in IDD collaborates with the healthcare consumer with IDD,
 2795 family/legal guardian(s), and other key stakeholders in the conduct of nursing practice.

2796

2797 **Competencies**

2798 The IDD registered nurse:

2799 • Partners with others to effect change and produce positive person-centered and family-
 2800 centered outcomes through the sharing of IDD knowledge of the healthcare consumer with IDD,
 2801 the family/legal guardian(s) and/or situation.

2802

2803 • Communicates with the healthcare consumer with IDD, family/legal guardian(s), members of
 2804 the interprofessional team, healthcare providers, and community providers regarding
 2805 healthcare consumer care and the nurse's role in the provision of IDD care.

2806

2807 • Promotes conflict management and engagement within the professional scope of practice.

2808

2809 • Participates in building consensus or resolving conflict in the context of patient care for
 2810 individuals with IDD, their families/legal guardian(s).

2811

2812 • Applies group process and negotiation techniques with the healthcare consumer with IDD, the
 2813 family/legal guardian(s) and colleagues.

2814

2815 • Adheres to standards and applicable codes of conduct that govern behavior among peers and
 2816 colleagues to create a work environment that promotes cooperation, respect, and trust.

2817

2818 • Cooperates in creating a documented person-centered and family-centered plan focused on
 2819 outcomes and decisions related to care and delivery of services that indicates communication
 and involvement with healthcare consumers with IDD, families/legal guardian(s), and others.

2820

2821 • Engages in teamwork and team-building processes for the provision of person-centered and
 2822 family-centered care for individuals with IDD, their families/legal guardian(s).

2823

2824 • Partners with other disciplines to enhance the outcomes of person-centered and family-
 2825 centered care of healthcare consumers with IDD through interprofessional activities, such as

- 2826 education, consultation, management, technological development, continuous quality
 2827 improvement or research opportunities.
 2828
- 2829 • Documents plans, communications, rationales for person-centered/family-centered plan
 2830 changes, and collaborative discussions with the individual with IDD, the family/legal guardian(s)
 2831 and interprofessional and nursing colleagues.
 2832
 - 2833 • Partners with the healthcare consumer with IDD and family/legal guardian(s) or significant
 2834 others to support the efforts of healthcare consumers and family/legal guardian(s) to make
 2835 appropriate decisions about utilization and allocation of resources.

2836 **Additional competencies for the advanced practice registered nurse**

2837 In addition to the competencies of the registered nurse, the advanced practice registered nurse who
 2838 specializes in IDD:

- 2839 • Partners with other disciplines to enhance the care of healthcare consumers with IDD through
 2840 interprofessional activities, such as education, consultation, management, technological
 2841 development, continuous quality improvement, or research opportunities.
 2842
- 2843 • Invites the contribution of the healthcare consumer with IDD, family/legal guardian(s), and
 2844 interprofessional and nursing team members in order to achieve optimal person-centered and
 2845 family-centered outcomes.
 2846
- 2847 • Leads in establishing, improving, and sustaining collaborative interprofessional and interagency
 2848 relationships to achieve safe, quality evidence-based health care.
 2849
- 2850 • Documents communications regarding the person-centered/family-centered plan of care,
 2851 rationales for changes to the plan, and collaborative interprofessional and individual with IDD,
 2852 family/legal guardian's discussions to improve the care of healthcare consumers with IDD.
 2853
- 2854 • Partners with other interprofessional administrative team members in policy-making and in
 2855 overall agency and community planning, implementation, and evaluation of services to and
 2856 programs for healthcare consumers with IDD. Their families/legal guardian(s).

2857 **Standard 11. Leadership**

2858 The registered nurse who specializes in IDD leads in the professional practice setting and the profession.

2859 **Competencies**

2860 The IDD registered nurse:

- 2861 • Oversees the nursing care given by others while retaining accountability for the quality of
 2862 person-centered and family-centered care given to the healthcare consumer with IDD, the
 2863 family/legal guardian.

- 2864 • Abides by the vision, the associated goals, and the person-centered plan to implement and
2865 measure progress of a healthcare consumer with IDD or progress within the context of the
2866 healthcare organization.
- 2867 • Demonstrates a commitment to continuous, lifelong learning and education for self and others
2868 in IDD and related fields.
- 2869 • Mentors interprofessional and nursing colleagues for the advancement of IDD interprofessional
2870 and nursing practice, the profession, and quality health care for individuals with IDD, their
2871 families/guardian(s).
- 2872 • Develops communication and conflict resolution skills.
- 2873 • Participates in nursing and IDD professional organizations.
- 2874 • Participates in efforts to influence healthcare policy involving healthcare consumers with IDD,
2875 their families/legal guardian(s) and the IDD and nursing profession.
- 2876 • Influences institutional, professional and public decision-making bodies to improve the
2877 professional practice environment and healthcare outcomes of healthcare consumers with IDD
2878 and their families/legal guardian(s).
- 2879
- 2880 • Provides direction to enhance the effectiveness of the interprofessional team that provides
2881 services to individuals with IDD, their families/legal guardian(s) based upon a person-centered
2882 and family-centered framework of care that is evidence based.
- 2883
- 2884 • Interprets the role of IDD nursing for healthcare consumers with IDD, families/legal guardian(s),
2885 interprofessional colleagues and policymakers.
- 2886 • Promotes communication of information and advancement of the profession as it relates to
2887 nursing and the field of IDD through writing, publishing, and presentations for interprofessional
2888 and nursing professional or lay audiences.
- 2889 • Designs innovations to effect change in IDD nursing practice and outcomes of care for
2890 individuals with IDD, their families/guardian(s).

2891 **Additional competencies for the advanced practice registered nurse**

2892 In addition to the competencies of the registered nurse, the advanced practice registered nurse who
2893 specializes in IDD:

- 2894 • Influences decision-making bodies to improve the professional practice environment and
2895 healthcare outcomes for healthcare consumers with IDD, their families/legal guardian(s).
- 2896 • Promotes advanced practice nursing and role development by interpreting its role for
2897 healthcare consumers with IDD, families/legal guardian(s), interprofessional colleagues and
2898 policymakers.

- 2899 • Models expert IDD nursing practice to interprofessional team members and healthcare
2900 consumers with IDD, their families/legal guardian(s).
- 2901 • Mentors interprofessional and nursing colleagues in the acquisition of IDD clinical knowledge,
2902 skills, abilities, and judgment.

2903 **Standard 12. Education**

2904 The registered nurse who specializes in IDD attains knowledge and competence that reflect current
2905 nursing practice and promotes futuristic thinking.

2906

2907 **Competencies**

2908 The IDD registered nurse:

- 2909 • Identifies learning needs based on nursing knowledge, the various roles the IDD nurse may
2910 assume, and the changing needs of the IDD population.
- 2911 • Participates in ongoing educational activities related to appropriate knowledge bases and
2912 professional issues needed to provide comprehensive, consumer and family-centered care to
2913 individuals with IDD across the lifespan, the family/guardian(s).
- 2914 • Demonstrates a commitment to lifelong learning in the field of IDD and related areas of practice
2915 (i.e. psychology, occupational therapy, nutrition) through self-reflection and inquiry to address
2916 ongoing learning needs and personal growth needs.
- 2917 • Seeks experiences that reflect current practice to maintain knowledge, skills, abilities, and
2918 judgment in clinical practice or role performance in the field of IDD and related areas of practice
2919 (i.e. psychology, occupational therapy, nutrition).
- 2920 • Acquires knowledge and skills appropriate to the IDD role, population, specialty, setting, or
2921 situation.
- 2922 • Seeks formal and independent learning experiences to develop and maintain clinical and
2923 professional skills and knowledge in the field of IDD and related areas of practice (i.e.
2924 psychology, occupational therapy, nutrition).
- 2925 • Participates in formal or informal IDD consultations to address issues in IDD nursing practice as
2926 an application of education, knowledge base, and evidence-based practice.
- 2927 • Shares educational findings, experiences, and ideas with peers in the field of IDD and related
2928 areas of practice (i.e. psychology, occupational therapy, nutrition).
- 2929 • Contributes to a work environment conducive to the education of interdisciplinary healthcare
2930 professionals and paraprofessionals

- 2931 • Maintains professional records that provide evidence of competence and lifelong learning in the
2932 field of IDD and related areas of practice (i.e. psychology, occupational therapy, nutrition) for
2933 licensure and certification purposes.
- 2934 • Uses current healthcare research findings and other evidence related to the care of healthcare
2935 consumers with IDD to expand competencies pertaining to knowledge, skills, abilities, and
2936 judgment; to enhance role performance; and to increase knowledge of professional issues
2937 related to IDD nursing.

2938 **Standard 13. Evidence-Based Practice and Research**

2939 The registered nurse who specializes in IDD integrates evidence and research findings into practice.

2940

2941 **Competencies**

2942 The IDD registered nurse:

- 2943 • Utilizes current evidence-based nursing knowledge, including research findings generated in the
2944 IDD field and related fields, to guide practice.
- 2945 • Incorporates evidence when initiating changes in IDD nursing practice.
- 2946 • Participates, as appropriate to education level and position and IDD area of specialization, in the
2947 formulation of evidence-based practice through research and quality improvement.
- 2948 • Shares personal or third-party IDD and related fields research findings with colleagues and
2949 peers.
- 2950 • Participates, as appropriate to education level and position, in research, quality improvement
2951 and scholarly activities (i.e. systematic reviews) activities to improve the health and health care
2952 of healthcare consumers with IDD and their families/legal guardian(s).
- 2953 • Engages healthcare consumers with IDD and their families/legal guardian(s) in research activities
2954 consistent with their informed consent, assent and informed refusal.

2955 **Additional competencies for the advanced practice registered nurse**

2956 In addition to the competencies of the registered nurse, the advanced practice registered nurse who
2957 specializes in IDD:

- 2958 • Contributes to IDD nursing knowledge by conducting or synthesizing research, quality
2959 improvement, scholarly activities (i.e. systematic reviews) and other evidence that discovers,
2960 examines, and evaluates current practice, knowledge, theories, criteria, and creative approaches
2961 to improve healthcare outcomes of healthcare consumers with IDD, their families/legal
2962 guardian(s).
- 2963 • Promotes a climate of research and clinical inquiry in the IDD field.

- 2964 • Disseminates research findings through activities such as podium and poster presentations,
2965 publications, consultations, and journal clubs.

2966 **Standard 14. Quality of Practice**

2967 The registered nurse who specializes in IDD contributes to quality nursing practice.

2968

2969 **Competencies**

2970 The IDD registered nurse:

- 2971 • Demonstrates quality nursing care by documenting the application of the nursing process in a
2972 responsible, accountable, and ethical manner that are evidence-based.
- 2973 • Uses creativity and innovation to enhance comprehensive nursing care that is person and
2974 family-centered of healthcare consumers with IDD and their families/legal guardian(s).
- 2975 • Participates in quality improvement. Activities may include: examination of care practices in the
2976 hospital setting; implementation of intervention in community-based setting designed to
2977 prevent transmission of infections; and person-centered
- 2978 • Provides leadership in the implementation of quality improvements for healthcare consumers
2979 with IDD and their families/legal guardian(s).
- 2980 • Designs innovations to effect evidence-based change in practice and improve health and quality
2981 of life outcomes of healthcare consumers with IDD and their families.
- 2982 • Participates in the programmatic evaluation of the practice environment and continuous quality
2983 improvement projects of nursing care provided to healthcare consumers with IDD and their
2984 families/legal guardian(s).
- 2985 • Evaluates nursing care delegated to other professionals, direct care support professionals,
2986 unlicensed assistive personnel, or the family/legal guardian(s).
- 2987 • Monitors health outcomes of the healthcare consumer with IDD in terms of measures of
2988 consumer satisfaction, measurable consumer outcomes and costs.
- 2989 • Identifies opportunities for the generation, dissemination and use of research and evidence in
2990 IDD nursing.
- 2991 • Participates in IDD and interprofessional organizations that strive to improve the quality of
2992 nursing and health care provided to healthcare consumers with IDD and their families/legal
2993 guardian(s).

2994 **Additional competencies for the advanced practice registered nurse**

2995 In addition to the competencies of the registered nurse, the advanced practice registered nurse who
 2996 specializes in IDD nursing:

- 2997 • Provides leadership in the design and implementation of continuous quality improvements
 2998 projects.
- 2999 • Evaluates on a continual basis, the practice environment and quality of nursing care rendered to
 3000 individuals with IDD, families/legal guardian(s) in relation to existing evidence.
- 3001 • Identifies opportunities for the generation, dissemination and use of IDD research and evidence
 3002 in professional and consumer forums.
- 3003 • Obtains and maintains IDD professional certification, as needed.
- 3004 • Uses the results of continuous quality improvement to initiate changes in IDD nursing practice
 3005 and the healthcare delivery system for individuals with IDD, their families/legal guardian(s).

3006 **Standard 15. Professional Practice Evaluation**

3007 The registered nurse who specializes in IDD evaluates one's own and others' nursing practice in relation
 3008 to professional practice standards and guidelines, relevant statutes, rules, and regulations.

3009 **Competencies**
 3010

3011 The IDD registered nurse:

- 3012 • Engages in self-evaluation of practice on a regular basis, identifying areas of strength, as well as
 3013 areas in which professional development in IDD and related fields would be beneficial.
- 3014 • Obtains informal feedback regarding her or his own practice from healthcare consumers with
 3015 IDD, family/legal guardian(s), peers, professional nursing and interprofessional colleagues, and
 3016 others, including direct care support professionals.
- 3017 • Participates in systematic peer review as appropriate.
- 3018 • Takes action to achieve goals identified during the evaluation process.
- 3019 • Provides the evidence for practice decisions and actions as part of the informal and formal
 3020 evaluation processes.
- 3021 • Interacts with peers and colleagues to enhance her or his own professional IDD nursing practice
 3022 or role performance.
- 3023 • Provides peers with formal or informal constructive feedback regarding their IDD practice or
 3024 role performance.

3025 **Additional competencies for the advanced practice registered nurse**

3026 In addition to the competencies of the registered nurse, the advanced practice registered nurse who
 3027 specializes in IDD:

- 3028 • Engages in a formal process seeking feedback regarding her or his own practice from healthcare
 3029 consumers, peers, professional nursing and interprofessional colleagues, and others, including
 3030 direct care support professionals.

3031 **Standard 16. Resource Utilization**

3032 The registered nurse specializing in IDD utilizes appropriate resources to plan, provide and sustain
 3033 evidence-based nursing services that are safe, effective, and fiscally responsible to healthcare
 3034 consumers with IDD.

3035 **Competencies**

3036 The IDD registered nurse:

- 3037 • Assesses healthcare consumer care needs and the resources available to achieve desired
 3038 outcomes for individuals with IDD, their families/legal guardian(s).
- 3039 • Identifies resource allocation for the needs of the healthcare consumer with IDD, desired
 3040 outcome, complexity of the strategy to meet their comprehensive needs, and the potential for
 3041 harm if needs are not addressed.
- 3042 • Delegates elements of person-centered/family-centered care to appropriate healthcare workers
 3043 in accordance with any applicable legal or policy parameters or principles.
- 3044 • Identifies the evidence when evaluating resources for individuals with IDD, their families/legal
 3045 guardian(s).
- 3046 • Advocates for resources, including technology, that enhance IDD nursing practice.
 3047
- 3048 • Modifies IDD nursing practice when necessary to promote positive interaction between
 3049 healthcare consumers with IDD, their families/parents, care providers, and technology.
 3050
- 3051 • Assists the healthcare consumer with IDD and family/legal guardian(s) in identifying and
 3052 securing appropriate services to address their needs across the healthcare continuum and
 3053 lifespan.
 3054
- 3055 • Assists the healthcare consumer with IDD and family/legal guardian(s) in factoring costs, risks,
 3056 and benefits in decisions about treatment and care.
 3057
- 3058 • Applies innovative solutions and strategies to obtain appropriate resources for individuals with
 3059 IDD, their families/legal guardian(s).
 3060

- 3061 • Utilizes organizational resources to ensure a work environment that is conducive to completing
3062 the identified person-centered/family-centered plan and outcomes for individuals with IDD,
3063 their families/legal guardian(s).
3064
- 3065 • Designs evaluation methods that measure safety and effectiveness of person-centered/family-
3066 centered interventions and outcomes for individuals with IDD, their families/legal guardian(s).
3067
- 3068 • Promotes activities that assist healthcare professionals and health care and community-based
3069 providers and policymakers, as appropriate, in becoming informed about costs, risks, and
3070 benefits of care, or of the plan and solution.
3071
- 3072 • Addresses discriminatory healthcare practices and the impact on resource allocation, especially
3073 for the IDD population and their caregivers.

3074 **Additional competencies for the advanced practice registered nurse**

3075 In addition to the competencies of the registered nurse, the advanced practice registered nurse who
3076 specializes in IDD:

- 3077
- 3078 • Utilizes organizational and community resources to formulate interprofessional person-
3079 centered/family centered plans of care for individuals with IDD, their families/legal guardian(s).
3080
- 3081 • Formulates innovative solutions for healthcare consumer care for individuals with IDD, their
3082 families/legal guardian(s) that utilize resources effectively and maintain quality of care.
3083
- 3084 • Designs evaluation strategies that demonstrate cost-effectiveness, cost benefit, and efficiency
3085 factors associated with IDD nursing practice.

3086 **Standard 17. Environmental Health**

3087 The registered nurse who specializes in IDD practices in an environmentally safe and healthy manner
3088 that promotes environmentally safe settings beneficial to the health and well-being of individuals with
3089 IDD.
3090

3091 **Competencies**

3092 The IDD registered nurse:

- 3093 • Attains knowledge of environmental health concepts, such as implementation of environmental
3094 health strategies.
- 3095 • Promotes a practice environment that reduces environmental health risks for workers and
3096 healthcare consumers with IDD, their families/legal guardian(s).
- 3097 • Assesses the practice environment for factors such as sound, odor, noise, and light that threaten
3098 health.

- 3099 • Advocates for the safe, judicious and appropriate use of products in health care.
- 3100 • Communicates information about environmental health risks and exposure reduction strategies
- 3101 to healthcare consumers with IDD, families/legal guardian(s), colleagues, and communities.
- 3102 • Utilizes scientific evidence to determine if a product or treatment is an environmental threat.
- 3103
- 3104 • Participates in strategies to promote healthy communities for individuals with IDD, their
- 3105 families/legal guardian(s).
- 3106
- 3107 • Identifies developmental and behavioral characteristics that predispose healthcare consumers
- 3108 with IDD to increased risk of exposure to environmental hazards and risks.
- 3109
- 3110 • Carefully assesses the home, school, and/or work environments of healthcare consumers with
- 3111 IDD, their families/legal guardian(s) for potential threat of exposure to environ-mental hazards
- 3112 and risks.
- 3113
- 3114 • Uses knowledge of chronic health disorders and IDD to distinguish between signs and symptoms
- 3115 associated with disorders and disabilities and signs and symptoms associated with harmful
- 3116 environmental exposures.
- 3117
- 3118 • Develops strategies to prevent and/or minimize environmental health risks for healthcare
- 3119 consumers with IDD, their families and legal guardian(s).

3120 **Additional competencies for the advanced practice registered nurse**

3121 In addition to the competencies of the registered nurse, the advanced practice registered nurse who
3122 specializes in IDD:

- 3123 • Creates interagency and interprofessional partnerships that promote sustainable environmental
- 3124 health policies and conditions for individuals with IDD, their families/legal guardian(s).
- 3125
- 3126 • Analyzes the impact of social, political, and economic influences on the environment and human
- 3127 health risk exposures for individuals with IDD across the lifespan, their families/legal guardian(s).
- 3128
- 3129 • Critically evaluates the manner in which environmental health issues related to the needs of
- 3130 individuals with IDD, their families/legal guardian(s) are presented by the popular media.
- 3131
- 3132 • Advocates for implementation of environmental principles for IDD nursing practice.
- 3133
- 3134 • Supports IDD nurses in advocating for and implementing environmental principles in IDD nursing
- 3135 practice.

3136 Glossary

3137

3138 **Advanced Practice Registered Nurses (APRNs).** A nurse who completed an accredited
 3139 graduate-level education program preparing her or him for the role of certified nurse practitioner,
 3140 certified registered nurse anesthetist, certified nurse-midwife, or clinical nurse specialist; has passed a
 3141 national certification examination that measures the APRN role and population-focused competencies;
 3142 maintains continued competence as evidenced by recertification; and is licensed to practice as an APRN
 3143 (adapted from APRN Joint Dialogue Group, 2008).

3144

3145 **Advanced Practice Registered Nurses (APRNs) specializing in IDD.** An APRN with IDD specialization
 3146 requires specialized knowledge and skills obtained through formal and continuing education (i.e.,
 3147 Leadership Education in Neurodevelopmental Disabilities-LEND, meeting presentations on IDD health
 3148 issues) related to the health care and management of conditions that are general or unique to the IDD
 3149 population and their families.
 3150

3151 **Assessment.** A systematic, dynamic process by which the registered nurse, through interaction with the
 3152 patient, family/legal guardian(s), groups, communities, populations, and healthcare providers, collects
 3153 pertinent data, including but not limited to demographics, social determinants of health, health
 3154 disparities, and physical, functional, psychosocial, emotional, cognitive, sexual, cultural, age-related,
 3155 environmental, spiritual/transpersonal, and economical assessments in a systematic, ongoing process
 3156 with compassion and respect for the inherent dignity, worth, and unique attributes of every person. This
 3157 may involve observation, interviewing, and the use of screening and assessment tools. Diagnostic tests
 3158 may be used as part of the assessment process if the nurse has specific training in that area (e.g.,
 3159 developmental diagnostic testing).

3160 **Assistive Technology (AT).** These adaptative devices can be used to assist individuals with IDD to
 3161 improve and maintain level of functioning. They can be used to assist with all forms of activities such as
 3162 the activities of daily living (ADL) that include bathing, dressing, grooming and eating. Examples of ADL
 3163 assistive technologies include wheelchairs, walkers, bath bench, grab bars, ramps, adaptive utensils and
 3164 long-handled devices for dressing, reaching. AT devices are used to support work-related activities and
 3165 facilitate learning such as the use of computers, workstation adaptations, automated page turners, and
 3166 hearing aids.

3167 **Autonomy.** The capacity of a nurse to determine her or his own actions through independent
 3168 choice, including demonstration of competence, within the full scope of nursing practice.
 3169

3170 **Caregiver.** A person who provides direct care for another, such as a child, dependent adult, the
 3171 individual with a disability or chronic illness.
 3172

3173 **Code of ethics (nursing).** A list of provisions that makes explicit the primary goals, values, and
 3174 obligations of the nursing profession and expresses its values, duties, and commitments to the society of
 3175 which it is a part. In the United States, nurses abide by and adhere to *Code of Ethics for Nurses with*
 3176 *Interpretive Statements* (ANA, 2015).
 3177

3178 **Collaboration.** A professional healthcare partnership grounded in a reciprocal and respectful recognition
 3179 and acceptance of: each partner's unique expertise, power, and sphere of influence and responsibilities;
 3180 the commonality of goals; the mutual safeguarding of the legitimate interest of each party; and the
 3181 advantages of such a relationship (ANA, 2015a).

- 3182
3183 **Competency.** An expected and measurable level of nursing performance that integrates
3184 knowledge, skills, abilities, and judgment, based on established scientific knowledge and
3185 expectations for nursing practice.
3186
- 3187 **Comprehensive care.** Care that integrates health (primary, secondary, and tertiary levels) and
3188 social/family/legal guardian support and service programs with educational or vocational
3189 services.
3190
- 3191 **Continuity of care.** An interprofessional process that includes healthcare consumers,
3192 families/legal guardian(s), and other stakeholders in the development of a coordinated plan of
3193 care. This process facilitates the healthcare consumer's transition between settings and
3194 healthcare providers, based on changing needs and available resources.
3195
- 3196 **Coordinated care** (also known as coordination of care). Care that facilitates access to needed resources
3197 and services and promotes continuity of care among multiple providers and diverse service systems.
3198 Work is done collaboratively with the healthcare consumer and/or family/legal guardian(s) to achieve
3199 mutually agreed-upon goals. Timeliness, appropriateness, and completeness of care are central to this
3200 concept.
3201
- 3202 **Cultural competence.** Care that respects, honors, and incorporates beliefs, norms, attitudes,
3203 and life practices of healthcare consumers and their families/legal guardian(s) congruent with
3204 their values and practices.
3205
- 3206 **Cultural knowledge.** The concepts and language of an ethnic or social group used to describe their
3207 health-related values, beliefs, and traditional practices, as well as the etiologies of their conditions,
3208 preferred treatments, and any contraindications for treatments or pharmacological interventions.
3209 Historical events, such as war-related migration, oppression, and structural discrimination are also
3210 included, when relevant (ANA, 2015a).
3211
- 3212 **Cultural skills.** The integration of cultural knowledge and expertise into practice when assessing,
3213 communicating with, and providing care for members of a racial, ethnic or social group (ANA, 2015a).
3214
- 3215 **Delegation.** The transfer of responsibility for the performance of a task from one individual to
3216 another while retaining accountability for the outcome. Example: The RN, in delegating a task to
3217 unlicensed assistive personnel, transfers the responsibility for performance of the task but
3218 retains professional accountability for the overall care.
3219
- 3220 **Developmentally appropriate.** Care focused on the unique needs of healthcare consumers
3221 across the lifespan to promote developmental skills and independence congruent with the
3222 healthcare consumer's present functional abilities rather than chronological age.
3223
- 3224 **Developmental screening.** Generally assessing a person's global or specific domains of
3225 development for evidence of developmental deviation. The results of screening are not
3226 diagnostic; if the results reveal a possibility of delay, they must be repeated within a short
3227 period of time. If developmental delay is suspected after the repeated screening, the person
3228 should be referred for diagnosis and appropriate treatment and intervention.
3229

- 3230 **Diagnosis.** A clinical judgment about the healthcare consumer’s response to actual or potential
 3231 health conditions or needs. The diagnosis provides the basis for development and determination
 3232 of a plan to achieve expected outcomes. Registered nurses use nursing and medical diagnoses
 3233 depending upon educational and clinical preparation and legal authority.
 3234
- 3235 **Diagnostic overshadowing.** Assigning a mental health diagnosis to a person with IDD because
 3236 the person has IDD. Example: An adolescent with Down syndrome is “feeling down” after a
 3237 breakup with a boyfriend. The adolescent’s provider diagnoses depression without any
 3238 assessment other than the history.
 3239
- 3240 **Early intervention.** The provision of health, social, and educational services in an
 3241 interprofessional setting for children from birth to three years of age who are at risk for or who
 3242 have IDD.
 3243
- 3244 **Environment.** The surrounding habitat, context, milieu, conditions, and atmosphere in which all living
 3245 systems participate and interact. It includes the physical habitat as well as cultural, psychological, social,
 3246 and historical influences. It includes both the external physical space as well as an individual’s internal
 3247 physical, mental, emotional, social, and spiritual experience (ANA, 2015; AHNA & ANA, 2013)
 3248
- 3249 **Environmental health.** Aspects of human health, including quality of life, that are determined by
 3250 physical, chemical, biological, social, and psychological influences in the environment. It also refers to
 3251 the theory and practice of assessing, correcting, controlling, and preventing those factors in the
 3252 environment that can potentially adversely affect the health of present and future generations.
 3253
- 3254 **Evaluation.** The process of determining the progress toward attainment of expected outcomes,
 3255 including the effectiveness of care.
 3256
- 3257 **Evidence-based practice.** A life-long problem-solving approach that integrates the best evidence from
 3258 well-designed research studies and evidence-based theories; clinical expertise and evidence from
 3259 assessment of the health consumer’s history and condition, as well as healthcare resources; and patient,
 3260 family, group, community, and population preferences and values. When EBP is delivered in a context of
 3261 caring, as well as an ecosystem or environment that supports it, the best clinical decisions are made to
 3262 yield positive healthcare consumer outcomes (ANA, 2015a; Melnyk, Gallagher-Ford, Long, & Fineout-
 3263 Overholt, 2014).
 3264
- 3265 **Expected outcomes.** End results that are measurable, desirable, and observable, and translate into
 3266 observable behaviors or relate to policies, funding, and/or organizations.
 3267
- 3268 **Family.** Family of origin or significant others, such as legal guardian(s), if identified by the
 3269 healthcare consumer.
 3270
- 3271 **Family-centered care.** Care to healthcare consumers in need of special services (e.g., therapies,
 3272 rehabilitation, adaptive equipment) that is provided within the context of the healthcare
 3273 consumer’s family. The strengths, individuality, and diversity of each family/legal guardian is
 3274 acknowledged and valued. The cornerstone of family-centered care is a partnership between
 3275 the family/legal guardian(s) and the professionals.
 3276
- 3277 **Health.** An experience that is often expressed in terms of wellness and illness, and may occur in

- 3278 the presence or absence of disease or injury.
3279
- 3280 **Healthcare consumer.** The person, client, family, group, community, or population who is the
3281 focus of attention and to whom the registered nurse is providing services as sanctioned by the
3282 state regulatory bodies.
3283
- 3284 **Health Home (Medical home).** Care that uses primary care providers to ensure the delivery of
3285 coordinated, comprehensive care.
3286
- 3287 **Healthcare providers.** Individuals with special expertise who provide healthcare services or
3288 assistance to healthcare consumers with IDD. They may include nurses, physicians,
3289 psychologists, social workers, nutritionist/dietitians, and various therapists.
3290
- 3291 **Illness.** The subjective experience of discomfort, disharmony, or imbalance. Not synonymous with
3292 disease.
3293
- 3294 **Implementation.** Activities such as teaching, monitoring, providing, counseling, delegating, and
3295 coordinating.
3296
- 3297 **Inclusion.** Integration of all persons, regardless of special needs and disabilities and/or the
3298 environment (e.g., school, community, etc.), with typical peers in the least restrictive setting.
3299 Innovative programs geared to the healthcare consumer's strengths and capabilities must be
3300 provided.
3301
- 3302 **Individualized education plan (IEP).** An annual educational program plan and goals that are
3303 jointly determined by the school teachers, therapists, school nurse, and parents of the school-
3304 aged child with IDD and members of their support system. The IEP includes all developmental
3305 and academic testing results, the child's health status, and the child's strengths and
3306 weaknesses, as well as transition plans. This plan may include vocational goals beginning at age
3307 14 and is known as the individualized transition plan (ITP).
3308
- 3309 **Individualized family service plan (IFSP).** An annual family service plan that includes goals and
3310 interventions for the entire family of a child, aged birth to three years, with or at risk for an IDD.
3311 The IFSP includes the child's strengths and weaknesses, the results of developmental testing in
3312 all areas of adaptive living, family needs, the identification of community resources, and
3313 transitional plans to the school setting. This plan is devised by the interprofessional team and
3314 the parents/legal guardian(s) of the child with IDD and members of their support system.
3315
- 3316 **Individualized plan for employment (IPE).** An annual work or habilitation plan, usually
3317 completed for adults with IDD that includes goals and interventions as determined by the
3318 healthcare consumer, his or her family/legal guardian(s), and the interprofessional team at the
3319 healthcare consumer's place of employment and/or residence. The IPE includes all
3320 developmental, adaptive skill levels, habilitative training and skill levels, and the healthcare
3321 consumer's strengths and weaknesses, which are summarized in the plan.
3322
- 3323 **Individualized transition plan (ITP).** An annual transition plan, to begin when the adolescent
3324 with IDD becomes 14 to 16 years of age. Includes goals and interventions as determined by the
3325 healthcare consumer, his or her family/legal guardian(s), and the interprofessional team for the

3326 transition to adulthood. The ITP also includes the healthcare consumer's health, developmental,
3327 and adaptive skill levels, strengths and weaknesses, and goals for a successful transition into
3328 adulthood that incorporates all aspects of the healthcare consumer's life.
3329

3330 **Information.** Data that are interpreted, organized, or structured.
3331

3332 **Interprofessional.** Reliant on the overlapping knowledge, skills, and abilities of each professional
3333 team member, resulting in synergistic effects by which outcomes are enhanced and become
3334 more comprehensive than a simple aggregation of the individual efforts of the team members.
3335

3336 **Interprofessional collaboration.** Integrated enactment of knowledge, skills, and values and attitudes
3337 that define working together across the professions, with other healthcare workers, and with patients,
3338 along with families and communities, as appropriate to improve health outcomes (IECEP, 2011).
3339

3340 **Interprofessional team.** A group of professionals with varied and specialized backgrounds who
3341 work with the healthcare consumer and/or family/legal guardian(s) to make decisions about all
3342 aspects of the life of the healthcare consumer with IDD, including health, education, and
3343 vocational needs. This planning should be person-centered. The membership of the
3344 interprofessional team should be determined by the type of expertise needed to meet the
3345 healthcare consumer's needs.
3346

3347 **Least restrictive environment.** The environment that offers the person with IDD the least
3348 amount of restriction in carrying out activities of daily living.
3349

3350 **Motion analysis.** Motion analysis captures video of human motion with specialized computer software
3351 that analyzes the motion in detail. The technique gives health care providers a detailed picture of a
3352 person's specific movement challenges to guide proper therapy.
3353

3354 **Musculoskeletal modeling and simulations.** These computer simulations of the human body can
3355 pinpoint underlying mechanical problems in a person with a movement-related disability. This technique
3356 can help improve assistive aids or physical therapies.
3357

3358 **Normalization.** Providing a supportive environment for healthcare consumers with IDD to make
3359 decisions regarding activities of daily living and to live as close as possible to the norms and
3360 patterns in the mainstream of the society in which they reside. If this is not possible, then
3361 supporting the family/legal guardian(s) who care for the healthcare consumer with IDD.
3362

3363 **Nursing.** The protection, promotion, and optimization of health and abilities; prevention of illness and
3364 injury; facilitation of healing; alleviation of suffering through the diagnosis and treatment of human
3365 response; and advocacy in the care of individuals, families/legal guardian(s), communities, and
3366 populations.
3367

3368 **Nursing practice.** The collective professional activities of nurses, characterized by the
3369 interrelations of human responses, theory application, nursing actions, and outcomes.
3370

3371 **Nursing process.** A critical thinking model used by nurses that comprises the integration of the
3372 singular, concurrent actions of these six components: assessment, diagnosis, identification of
3373 outcomes, planning, implementation, and evaluation.

- 3374
3375 **Patient.** See Healthcare consumer.
3376
3377 **Peer review.** A collegial, systematic, and periodic process by which registered nurses are held
3378 accountable for practice and that fosters the refinement of a nurse's knowledge, skills, and
3379 decision-making at all levels and in all areas of practice.
3380
3381 **Person-centered care.** Care that is focused on the wishes of the healthcare consumer with IDD
3382 after the healthcare consumer (and the healthcare consumer's family/legal guardian(s)) is fully
3383 informed of the knowledge and options available regarding his or her care.
3384
3385 **Plan.** A comprehensive outline of the components that must be addressed to attain expected
3386 outcomes.
3387
3388 **Quality.** The degree to which health services for patients, families/legal guardian(s), groups,
3389 communities, or populations increase the likelihood of desired outcomes and are consistent
3390 with current professional knowledge.
3391
3392 **Registered nurse (RN).** An individual registered or licensed by a state, commonwealth, territory,
3393 government, or other regulatory body to practice as a registered nurse.
- 3394 **Robotics.** Specialized robots help regain and improve function in arms or legs after a stroke.
3395
3396 **Scope of Nursing Practice.** The description of the *who, what, where, when, why, and how* of
3397 nursing practice that addresses the range of nursing practice activities common to all registered
3398 nurses. When considered in conjunction with *Standards of Professional Nursing Practice (2015a)*
3399 and *Code of Ethics for Nurses (2015b)*, comprehensively describes the competent level of
3400 nursing common to all registered nurses.
3401
3402 **Standards.** Authoritative statements defined and promoted by the profession by which the
3403 quality of practice, service, or education can be evaluated.
3404
3405 **Standards of Practice.** Describe a competent level of nursing care as demonstrated by the
3406 nursing process. See *also* Nursing process.
3407
3408 **Standards of Professional Nursing Practice.** Authoritative statements of the duties that all
3409 registered nurses, regardless of role, population, or specialty, are expected to perform
3410 competently.
3411
3412 **Standards of Professional Performance.** Describe a competent level of behavior in the
3413 professional role.
3414
3415 **Transcranial direct current stimulation (tDCS).** In tDCS, a mild electrical current travels through the skull
3416 and stimulates the brain. This can help recover movement in patients recovering from stroke or other
3417 conditions.
3418
3419 **Transcranial magnetic stimulation (TMS).** TMS sends magnetic impulses through the skull to stimulate
3420 the brain. This system can help people who have had a stroke recover movement and brain function.

3421 **Transition.** Refers to the passage from a stage of development, service system of care to another. The
3422 transition requires the individual to prepare for the change, learn new skills and knowledge needed to
3423 make the change and adapt to the new set of circumstances.
3424

3425 **Virtual reality.** People who are recovering from injury can retrain themselves to perform motions within
3426 a virtual environment.

3427 **Wellness.** Integrated, congruent functioning aimed toward reaching one's highest potential (AHNA &
3428 ANA, 2013; ANA, 2015a).
3429

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References and Bibliography

- 3431
- 3432 Acharya, K., Schindler, A., & Heller, T. (2016). Aging: Demographics, trajectories, and health system
3433 issues. In L. Rubin & A. Crocker, Health care for people with intellectual and developmental disabilities
3434 across the lifespan, 3rd edition, [L. Rubin, J. Merrick, D. Greydanus & D. Patel (Eds)], (pp. 1423-1432).
3435 Basel, Switzerland: Springer Publishing
- 3436 Advanced Practice Registered Nurses Joint Dialogue Group. (2008, July 7). Consensus model for APRN
3437 regulation: Licensure, accreditation, certification & education. Retrieved from
3438 <http://www.nursingworld.org/ConsensusModelforAPRN>
- 3439 Agency for Healthcare Research and Quality. Retrieved from TeamSTEPPS: Strategies and tools to
3440 enhance performance and patient safety [http://www.ahrq.gov/professionals/education/curriculum-](http://www.ahrq.gov/professionals/education/curriculum-tools/teamstepps/)
3441 [tools/teamstepps/](http://www.ahrq.gov/professionals/education/curriculum-tools/teamstepps/)
- 3442 Aggen, R. L., & Moore, N. J. (1984). Standards of nursing practice in mental retardation/developmental
3443 disabilities. Albany, NY: New York State Office of Mental Retardation and Developmental Disabilities.
- 3444 Aiken, L. H., Clarke, S. P., Sloan, D. M., Lake, E. T., & Cheney, T. (2008). Effects of hospital care
3445 environment in patient mortality and nurse outcomes. *Journal of Nursing Administration*, 38, 223–229.
- 3446 Alliance for Health Policy (2012). Health care work force. Retrieved on March 29, 2019 from:
3447 http://www.allhealthpolicy.org/wp-content/uploads/2017/01/Nursing_Toolkit_FINAL_8-27-12_111.pdf
- 3448 Al-Motlaq M.A., Carter, B., Neill, S., Hallstrom, I.K., Foster, M., Coyne I, Arabiat, D., Darbyshire, P., Feeg,
3449 V., & Shields, L. (2018). Toward developing consensus on family-centred care: An international
3450 descriptive study and discussion. *Journal of Child Health Care*, 1367493518795341.
3451 doi:10.1177/1367493518795341, 10.1177/1367493518795341
- 3452 American Association of Colleges of Nursing (2019). Fact Sheet: Degree Completion Programs for
3453 Registered Nurses: RN to Master’s Degree and RN to Baccalaureate Programs, Washington, DC: Author
3454 Retrieved on May 12, 2019 from: [https://www.aacnnursing.org/Portals/42/News/Factsheets/Degree-](https://www.aacnnursing.org/Portals/42/News/Factsheets/Degree-Completion-Factsheet.pdf)
3455 [Completion-Factsheet.pdf](https://www.aacnnursing.org/Portals/42/News/Factsheets/Degree-Completion-Factsheet.pdf)
- 3456 American Association of Colleges of Nursing (AACN). (2008). The essentials of baccalaureate education
3457 for professional nursing practice. Washington, DC: Author.
- 3458
3459 American Association of Colleges of Nursing (AACN). (1995). Interdisciplinary education and practice.
3460 Retrieved from [http://www.aacn.nche.edu/publications/position/interdisciplinary-education-and](http://www.aacn.nche.edu/publications/position/interdisciplinary-education-and-Practice)
3461 [Practice](http://www.aacn.nche.edu/publications/position/interdisciplinary-education-and-Practice)
- 3462
3463 American Academy of Pediatrics (2013) Vaccine Evidence: Examine the Evidence. Retrieved on July 31,
3464 2018 from: [https://www.healthychildren.org/English/safety-prevention/immunizations/Pages/Vaccine-](https://www.healthychildren.org/English/safety-prevention/immunizations/Pages/Vaccine-Studies-Examine-the-Evidence.aspx)
3465 [Studies-Examine-the-Evidence.aspx](https://www.healthychildren.org/English/safety-prevention/immunizations/Pages/Vaccine-Studies-Examine-the-Evidence.aspx)

- 3466 American Academy of Pediatrics; American Academy of Family Physicians; American College of
3467 Physicians-American Society of Internal Medicine. (2002). A consensus statement on health care
3468 transitions for young adults with special health care needs. *Pediatrics*, 110, 1304-1306.
- 3469 American Association of Critical Care Nurses. (2016). AACN standards for establishing and sustaining
3470 healthy work environments: A journey to excellence, 2nd Ed. Aliso Viejo, CA: Author.
- 3471 American Association on Intellectual and Developmental Disabilities (AAIDD) Board of Directors, The Arc
3472 of the United States (Arc) Board of Directors, and Chapters of The Arc. (2018). Self-Determination.
3473 Retrieved from <https://aaid.org/news-policy/policy/position-statements/self-determination>.
- 3474 American Foundation for the Blind. (n.d.). Screen readers and text-to-speech synthesizers. Retrieved
3475 October 8, 2018, from [http://www.afb.org/info/for-employers/accommodations-for-workers-with-](http://www.afb.org/info/for-employers/accommodations-for-workers-with-vision-loss/screen-readers-and-text-to-speech-synthesizers/345)
3476 [vision-loss/screen-readers-and-text-to-speech-synthesizers/345](http://www.afb.org/info/for-employers/accommodations-for-workers-with-vision-loss/screen-readers-and-text-to-speech-synthesizers/345)
- 3477 American Holistic Nurses Association and American Nurses Association (2013). *Holistic Nursing Scope &*
3478 *Standards 2nd Edition*. Silver Springs, MD: Nursebooks.org.
- 3479 American Nurses Credentialing Center (ANCC). (2014). Magnet Model. Retrieved from
3480 <http://www.nursecredentialing.org/Magnet/ProgramOverview/New-Magnet-Model>
- 3481 American Nurses Credentialing Center (ANCC). (2012). Practice standards [webpage]. Retrieved from
3482 <http://www.nursecredentialing.org/Pathway/AboutPathway/PathwayPracticeStandards>
- 3483 American Nurses Association (2015a). *Nursing: Scope and standards of practice, 3rd Edition*. Silver
3484 Spring, MD: Nursebooks.org.
- 3485 American Nurses Association (2015b). Code of ethics for nurses with interpretative statements. Silver
3486 Spring, MD: Nursebooks.org
- 3487 American Nurses Association (2015). *Principles for nursing: Documentation for registered nurses and*
3488 *professional nursing*. Silver Springs, MD: Nursebooks.org.
- 3489 American Nurses Association (ANA). (2014). Addressing nurse fatigue to promote safety and health:
3490 Joint responsibilities of registered nurses and employers to reduce risks [webpage]. Retrieved from
3491 [http://www.nursingworld.org/MainMenuCategories/Policy-Advocacy/Positions-and-](http://www.nursingworld.org/MainMenuCategories/Policy-Advocacy/Positions-and-Resolutions/ANAPositionStatements/Position-Statements-Alphabetically/Addressing-Nurse-Fatigue-to-Promote-Safety-and-Health.html)
3492 [Resolutions/ANAPositionStatements/Position-Statements-Alphabetically/Addressing-Nurse-Fatigue-to-](http://www.nursingworld.org/MainMenuCategories/Policy-Advocacy/Positions-and-Resolutions/ANAPositionStatements/Position-Statements-Alphabetically/Addressing-Nurse-Fatigue-to-Promote-Safety-and-Health.html)
3493 [Promote-Safety-and-Health.html](http://www.nursingworld.org/MainMenuCategories/Policy-Advocacy/Positions-and-Resolutions/ANAPositionStatements/Position-Statements-Alphabetically/Addressing-Nurse-Fatigue-to-Promote-Safety-and-Health.html)
- 3494 American Nurses Association. (2014). Professional Role Competence Position Statement. Accessed on
3495 December 3, 2018 from: [https://www.nursingworld.org/globalassets/practiceandpolicy/nursing-](https://www.nursingworld.org/globalassets/practiceandpolicy/nursing-excellence/ana-position-statements-secure/nursing-practice/professional-role-competence.pdf)
3496 [excellence/ana-position-statements-secure/nursing-practice/professional-role-competence.pdf](https://www.nursingworld.org/globalassets/practiceandpolicy/nursing-excellence/ana-position-statements-secure/nursing-practice/professional-role-competence.pdf)
- 3497 American Nurses Association (2013). *Public health nursing: Scope and standards of practice, 2nd edition*
3498 Silver Springs, MD: Nursebooks.org

- 3499 American Nurses Association (ANA). (2013a). Framework for measuring nurses' contributions to care
3500 coordination. [http://www.nursingworld.org/Framework-for-Measuring-Nurses-Contributions-to-Care-](http://www.nursingworld.org/Framework-for-Measuring-Nurses-Contributions-to-Care-Coordination)
3501 [Coordination](http://www.nursingworld.org/Framework-for-Measuring-Nurses-Contributions-to-Care-Coordination)
- 3502 American Nurses Association (ANA). (2013). Safe Patient Handling and Mobility: Interprofessional
3503 National Standards. Across the Care Continuum. Silver Spring, MD: Nursesbooks.org.
- 3504 American Nurses Association (ANA). (2013b). HealthyNurse™ [webpage]. Retrieved from
3505 <http://www.nursingworld.org/MainMenuCategories/WorkplaceSafety/Healthy-Nurse>
- 3506 American Nurses Association (ANA). (2012). ANA's principles of nurse staffing. Silver Spring, MD: Author.
- 3507 American Nurses Association (ANA). (2010). Nursing's social policy statement: The essence of the
3508 profession. Silver Spring, MD: Nursesbooks.org
- 3509 American Nurses Association (ANA). (2014). Professional role competence: ANA position statement.
3510 Silver Spring, MD: Nursesbooks.org.
- 3511 American Nurses Association (2007). ANA's Principles of environmental health for nursing practice with
3512 implementation strategies. Silver Springs, MD: Author.
- 3513 American Nurses Association (ANA). (2003). Nursing's social policy statement (2nd ed.). Silver Spring,
3514 MD: <http://www.nursesbooks.org>
- 3515 American Nurses Association. (1995). Nursing's social policy statement. Washington, DC: Author.
- 3516 American Nurses Association. (1980). Nursing: A social policy statement. Kansas City, MO: Author.
- 3517 American Nurses Association Consensus Committee. (1994). Standards of nursing practice for the care
3518 of children and adolescents with special health and developmental needs. Lexington, KY: University of
3519 Kentucky, College of Nursing.
- 3520 American Nurses Association Consensus Committee. (1993). National standards of nursing practice for
3521 early intervention services. Lexington, KY: University of Kentucky, College of Nursing.
- 3522 American Nurses Association (ANA). (n.d.) Healthy Nurse, Healthy Nation. Retrieved on March 27, 2019
3523 from: [https://www.nursingworld.org/practice-policy/work-environment/health-safety/healthy-nurse-](https://www.nursingworld.org/practice-policy/work-environment/health-safety/healthy-nurse-healthy-nation/)
3524 [healthy-nation/](https://www.nursingworld.org/practice-policy/work-environment/health-safety/healthy-nurse-healthy-nation/)
- 3525 American Psychiatric Nurses Association, International Society of Psychiatric-Mental Health Nurses, &
3526 American Nurses Association (2014). Psychiatric-mental health nursing: Scope and standards of practice,
3527 2nd edition. Silver Springs, MD: Nursebooks.org
- 3528 Anderson, L., Hewitt, A., Pettingell, S., Lulinski, A., Taylor, M., & Reagan, J. (2018) Family and Individual
3529 Needs for Disability Supports (v.2) Community Report 2017. Minnesota: Research and Training Center
3530 on Community Living, Institute on Community Integration, University of Minnesota.

- 3531 Appelgren, M., Bahsevani, C., Persson, K., & Borglin, G. (2018). Nurses' experiences of
3532 caring for patients with intellectual developmental disorders: A systematic review
3533 using a meta-ethnographic approach. *BMC Nursing*, 17(15), 1-19. doi:
3534 <https://doi.org/10.1186/s12912-018-0316-9>.
- 3535
3536 Auerbach, D., Staiger, D., & Buerhaus, P. (2018). Growing ranks of advanced practice clinicians —
3537 Implications for the physician workforce. *The New England Journal of Medicine*, 378, 2358–2360.
3538 <https://doi.org/10.1056/NEJMp1801869>
- 3539
3540 Auberry, Kathy (2018). Intellectual and developmental disability nursing: Current
3541 challenges in the USA. *Nursing: Research and Reviews*, 8, 23-28.
3542 doi: <https://doi.org/10.2147/NRR.S154511>
- 3543
3544 Austin, J., Challela, M., Huber, C., Sciarillo, W., & Stade, C. (1987). Standards for the clinical advanced
3545 practice registered nurse in developmental disabilities/handicapping conditions. Washington, DC:
3546 American Association of University Affiliated Programs.
- 3547
3548 Barclay, A., Goulet, L. R., Holtgrewe, M. M., & Sharp, A. R. (1962). Parental evaluations of clinical services
3549 for retarded children. *American Journal on Mental Deficiency*, 67, 231–237.
- 3549
3550 Barnard, K. E. (1968). Teaching the retarded child is a family affair. *American Journal of Nursing*, 68,
3551 305–311.
- 3551
3552 Barnard, K. E. (1966). Symposium on mental retardation. *Nursing Clinics of North America*, 1(4), 629–
3553 630.
- 3553
3554 Bathish M., Wilson, C., Potempa, K. (2018). Deliberate practice and nurse competence. *Applied*
3555 *Nursing Research*, 40, 106-109. doi: 10.1016/j.apnr.2018.01.002. Epub 2018 Feb 3.
- 3556
3557 Bauer, L. & Bodenheimer, T. (2017). Expanded roles of registered nurses in primary care delivery of the
3558 future, *Nursing Outlook*, 65, 624-632, doi.org/10.1016/j.outlook.2017.03.011.
- 3558
3559 Benner, P. (1984). *From novice to expert: Excellence and power in clinical nursing practice*. Menlo Park,
3560 CA: Addison-Wesley.
- 3560
3561 Betz, C.L. (2017). SPN position statement: transition of pediatric patients into adult care. *Journal of*
3562 *Pediatric Nursing* 35, 160-164. <https://doi.org/10.1016/j.pedn.2017.05.003>
- 3562
3563 Betz, C.L., Krajicek, M., & Craft-Rosenberg, M. (Eds.) (2018). *Nursing Excellence in the Care of Children,*
3564 *Youth and Families*, 2nd Edition New York: Springer Publishing Inc
- 3564
3565 Betz, C., Nehring, W. M., & Lobo, M. L. (2015). Transition needs of parents of adolescents and emerging
3566 adults with special health care needs and disabilities. *Journal of Family Nursing*, 21 (3), 362-412.
- 3566
3567 Betz, C.L., & Sawin, K.J. (2018). Children and youth with disabilities and/or special health care needs and
3568 their families receive the full range of services. In C.L. Betz, M.J. Krajicek, & M. Craft-Rosenberg (Eds.).
3569 *Guidelines for nursing excellence in the care of children, youth and families* (2nd ed., pp. 249-263).

- 3569 Bigby, C. and Beadle-Brown, J. (2018), Improving Quality of Life Outcomes in Supported Accommodation
3570 for People with Intellectual Disability: What Makes a Difference? *Journal of Applied Research in*
3571 *Intellectual Disabilities*, 31: e182-e200. doi:10.1111/jar.12291
- 3572 Blum, R.W., Garell, D., Hodgman, C.H., Jorissen, T.W., Okinow, N.A., Orr, D.P., & Slap, G.B. (1993).
3573 Transition from child-centered to adult health-care systems for adolescents with chronic conditions. A
3574 position paper of the Society for Adolescent Medicine. *Journal of Adolescent Health*, 14, 570-576.
- 3575 Braddock, D.I., Hemp, R.E., Tanis, E.S., Wu, L. & Haffer, J. (2017). *State of the States in Intellectual and*
3576 *Developmental Disabilities*, 11th edition. Denver, CO: Coleman Institute for Cognitive Disabilities.
- 3577 Brown, M. (2016). The professional nursing role in support of people with intellectual and
3578 developmental disabilities. In I.L. Rubin, J. Merrick, D.E. Greydanus, & D.R. Patel (Eds.). *Health care for*
3579 *people with intellectual and developmental disabilities across the Lifespan. Part II* (3rd ed., pp. 1803-
3580 1821). Switzerland: Springer International Publishing.
- 3581 Buerhaus, P.I., Skinner, H.I., Auerbach, D.I., & Staiger, D.O. (2017). Four challenges facing the nursing
3582 workforce in the United States. *Journal of Nursing Regulation*, 8, 40-46.
- 3583 Butler M, McCreedy E, Schwer N, Burgess, D., Call, K., Przedworski, J., Rosser, S., Larson, L., Allen, M., Fu,
3584 S., & Kane, R.L. (2016). Improving Cultural Competence to Reduce Health Disparities [Internet]. Rockville
3585 (MD): Agency for Healthcare Research and Quality (US); (Comparative Effectiveness Reviews, No. 170.)
3586 2, Disability Populations. Available from: <https://www.ncbi.nlm.nih.gov/books/NBK361117/>
- 3587 [Byrne, G. \(2018\). Prevalence and psychological sequelae of sexual abuse among individuals with an](#)
3588 [intellectual disability: A review of the recent literature. *Journal of Intellectual Disabilities*, 22\(3\), 294-310.](#)
- 3589 Calzone, K. A., Culp, S., Jenkins, J., Caskey, S., Edwards, P. B., Fuchs, M. A., Reints, A., Strange, B.,
3590 Questad, J., & Badzek, L. (2016). Test-Retest Reliability of the Genetics and Genomics in Nursing Practice
3591 Survey Instrument. *Journal of nursing measurement*, 24(1), 54–68. doi:10.1891/1061-3749.24.1.54
- 3592 Campinha-Bacote, J. (2011a). Coming to know cultural competence: An evolutionary process.
3593 *International Journal for Human Caring*, 15(3), 42–48.
- 3594 Campinha-Bacote, J. (2011b). Delivering patient-centered care in the midst of a cultural conflict: The
3595 role of cultural competence. *The Online Journal of Issue in Nursing*, 16(2), Manuscript 5. Retrieved from
3596 [http://gm6.nursingworld.org/MainMenuCategories/ANAMarketplace/ANAPeriodicals/OJIN/TableofCont](http://gm6.nursingworld.org/MainMenuCategories/ANAMarketplace/ANAPeriodicals/OJIN/TableofContents/Vol-16-2011/No2-May-2011/Delivering-Patient-Centered-Care-in-the-Midst-of-a-Cultural-Conflict.aspx#Framework)
3597 [ents/Vol-16-2011/No2-May-2011/Delivering-Patient-Centered-Care-in-the-Midst-of-a-Cultural-](http://gm6.nursingworld.org/MainMenuCategories/ANAMarketplace/ANAPeriodicals/OJIN/TableofContents/Vol-16-2011/No2-May-2011/Delivering-Patient-Centered-Care-in-the-Midst-of-a-Cultural-Conflict.aspx#Framework)
3598 [Conflict.aspx#Framework](http://gm6.nursingworld.org/MainMenuCategories/ANAMarketplace/ANAPeriodicals/OJIN/TableofContents/Vol-16-2011/No2-May-2011/Delivering-Patient-Centered-Care-in-the-Midst-of-a-Cultural-Conflict.aspx#Framework)
- 3599 Carling-Jenkins, R., Torr, J., Iacono, T., & Bigby, C. (2012). Experiences of supporting people with Down
3600 syndrome and Alzheimer’s disease in aged care and family environments. *Journal of Intellectual &*
3601 *Developmental Disability*, 37(1), 54–60. <https://doi.org/10.3109/13668250.2011.645473>

- 3602 Caruso, C.C., Baldwin, C.M., Berger, A., Chasens, E.R., Landis, C., Redeker, N.S., Scott, L.D., & Trinkoff, A.
3603 (2017) Position statement: Reducing fatigue associated with sleep deficiency and work hours in nurses,
3604 Nursing Outlook, 65, 766 – 768.
- 3605 Center on Technology and Disability. (2018). Assistive technology 101. Retrieved September 28, 2018,
3606 from https://www.ctdinstitute.org/sites/default/files/file_attachments/CTD-AT101-V4.pdf
- 3607 Charles C, Gafni A & Whelan T. (1997). Shared decision-making in the medical encounter: what does it
3608 mean? (or it takes at least two to tango). Social Science & Medicine, 44(5), 681-92. Retrieved from
3609 <http://ovidsp.ovid.com/ovidweb.cgi?T=JS&PAGE=reference&D=med4&NEWS=N&AN=9032835>.
- 3610 Chou, Y., Chiao, C., & Fu, L. (2011). Health status, social support, and quality of life among family carers
3611 of adults with profound intellectual and multiple disabilities (PIMD) in Taiwan. Journal of Intellectual &
3612 Developmental Disability, 36(1), 73–79. <https://doi.org/10.3109/13668250.2010.529803>
- 3613 Cipriano, P. (2009) in IOM (Institute of Medicine). 2010. A summary of the October 2009 forum on the
3614 future of nursing: Acute care. Washington, DC: The National Academies Press.
- 3615 Cipriano, P.F. (2014). Technology in transition. The American Nurse. 46, 3.
- 3616 Cipriano, Pamela F. (2011). The future of nursing and health IT: the quality elixir. Nursing economic\$.
3617 29(5):286-289, 282.
- 3618 Cipriano, P.F., Bowles, K., Dailey, M., Dykes, P., Lamb, G. & Naylor, M. (2013). The importance of health
3619 information technology in care coordination and transitional care. Nursing outlook. 61(6):475-489.
- 3620 Cowan, D. T., Norman, I., & Coopamah, V. P. (2007). Competence in nursing practice: A controversial
3621 concept—A focused review of literature. Accident & Emergency Nursing, 15, 20–26.
- 3622 Delahunty, L. (2017). Understanding the nurse’s role in identifying children with intellectual disability.
3623 Nursing Children and Young People., 29, 33–36. <https://doi.org/10.7748/ncyp.2017.e863>
- 3624 Department of Defense (2014). Military Health System (MHS) and Defense Health Agency (DHA).
3625 TeamSTEPPS. Retrieved on from [http://www.health.mil/Military-Health-Topics/Access-Cost-Quality-
3626 and-Safety/Quality-And-Safety-of-Healthcare/Patient-Safety/Patient-Safety-Products-And-
3627 Services/TeamSTEPPS](http://www.health.mil/Military-Health-Topics/Access-Cost-Quality-and-Safety/Quality-And-Safety-of-Healthcare/Patient-Safety/Patient-Safety-Products-And-Services/TeamSTEPPS)
- 3628 Developmental Disabilities Assistance and Bill of Rights Act of 2000, Pub. L, 106–402 114 STAT. 1678
- 3629 Devine, P. (1983). Mental retardation: An early subspecialty in psychiatric nursing. Journal of Psychiatric
3630 Nursing & Mental Health Services, 21, 21–30.
- 3631 Dix, D. (1847). The appeal of Dorothy Dix to Illinois General Assembly for better treatment of the insane.
3632 Springfield, IL.

- 3633 Dix, D. L. (1976). Memorial to the legislature of Massachusetts, 1843. In M. Rosen, G. R. Clark, & M. S.
3634 Kivitz (Eds.). *The history of mental retardation: Collected papers* (Vol. 1, pp. 1–30). Baltimore, MD:
3635 University Park Press.
- 3636 Earp, J. A., French, E. A., & Gilkey, M. B. (Eds.). (2008). *Patient advocacy for health care quality:
3637 Strategies for achieving patient-centered care*. Sudbury, MA: Jones and Bartlett Publishers.
- 3638 Estabrooks C.A., D. S. Thompson, J.J. Lovely, & A. Hofmeyer. (2006). A guide to knowledge translation
3639 theory. *Journal of Continuing Education in the Health Professions* (1):25–36. Winter.
- 3640 Federal Register (January 16, 2014). Medicaid Program; State Plan Home and Community-Based
3641 Services, 5-Year Period for Waivers, Provider Payment Reassignment, and Home and Community-Based
3642 Setting Requirements for Community First Choice (Section 1915(k) of the Act) and Home and
3643 Community-Based Services (HCBS) Waivers (Section 1915(c) of the Act)
- 3644 Figueiredo-Ferraz, H., Grau-Alberola, E., Gil-Monte, P. R, García-Juesas, J.A. (2012). Burnout and job
3645 satisfaction among nursing professionals, *Psicothema*, 24, 271-276.
- 3646 Field, M., & Jette, A., (Eds.), and Committee on Disability in America, Board on Health Sciences Policy,
3647 Institute of Medicine of the National Academies. *The Future of Disability in America* [Internet].
3648 Washington, DC: National Academies Press; 2007 [cited 2014 Mar 10]. Available from:
3649 http://www.nap.edu/catalog.php?record_id=1189
- 3650 Finfgeld-Connett, D. (2006). Meta-synthesis of caring in nursing. *Journal of Clinical Nursing*, 17, 196–204.
- 3651 Frey, R. Igielnik, R., & Patten, E. (2018). How Millennials today compare with their grandparents 50 years
3652 ago. Fact tank, news in the numbers, Pew Research Center. Retrieved on December 17, 2018 from:
3653 <http://www.pewresearch.org/fact-tank/2018/03/16/how-millennials-compare-with-their-grandparents/>
- 3654 Fry, R. (2018) Millennials projected to overtake Baby Boomers as America’s largest generation. Fact
3655 tank, news in the numbers, Pew Research Center, Retrieved on December 17, 2018 from
3656 <http://www.pewresearch.org/fact-tank/2018/03/01/millennials-overtake-baby-boomers/>
- 3657 Gallagher-Lepak, S., & Kubsch, S. (2009). Transpersonal caring: A nursing practice guideline. *Holistic
3658 Nursing Practice*, 23, 171–182.
- 3659 Hagerty, B. M. K., Lynch-Sauer, K., Patusky, K. L., & Bouwseman, M. (1993). An emerging theory of
3660 human relatedness. *Image*, 25, 291–296.
- 3661 Hahn, J. E. (2003). Addressing the need for education: Curriculum development for nurses about
3662 intellectual and developmental disabilities. *The Nursing Clinics of North America*, 38, 185-204.
- 3663 Haynes, U. (1974). *Overview of the National Collaborative Infant Project*. Washington, DC: United
3664 Cerebral Palsy Association.

- 3665 Haynes, U. (1968). Guidelines for nursing standards in residential centers for the mentally retarded.
3666 Washington, DC: United Cerebral Palsy Association.
- 3667 Hedov, G., Annerén, G. Wikblad, K. (2000). Self-perceived health in Swedish parents of children with
3668 Down's syndrome, *Quality of Life Research*, 9, 415-422.
- 3669 Hewitt, A., Lightfoot, E., Bogenschutz, M., McCormick, K., Sedlezky, L. & Doljanac, R. (2010) Parental
3670 Caregivers' Desires for Lifetime Assistance Planning for Future Supports for Their Children with
3671 Intellectual and Developmental Disabilities, *Journal of Family Social Work*, 13:5, 420-
3672 434, doi: 10.1080/10522158.2010.514678
- 3673 Huston, C. (2013). The impact of emerging technology on nursing care: Warp speed ahead. Online
3674 *Journal of Issues in Nursing*, 18(2), Manuscript 1. Retrieved from
3675 [http://www.nursingworld.org/MainMenuCategories/ANAMarketplace/ANAPeriodicals/OJIN/TableofCon](http://www.nursingworld.org/MainMenuCategories/ANAMarketplace/ANAPeriodicals/OJIN/TableofContents/Vol-18-2013/No2-May-2013/Impact-of-Emerging-Technology.html)
3676 [tents/Vol-18-2013/No2-May-2013/Impact-of-Emerging-Technology.html](http://www.nursingworld.org/MainMenuCategories/ANAMarketplace/ANAPeriodicals/OJIN/TableofContents/Vol-18-2013/No2-May-2013/Impact-of-Emerging-Technology.html)
- 3677 Igoe, J. B., Green, P., Heim, H., Licata, M., MacDonough, G. P., & McHugh, B. A. (1980). School nurses
3678 working with handicapped children. Kansas City, MO: American Nurses Association.
- 3679 Institute of Medicine (IOM). 2011. *The Future of Nursing: Leading Change, Advancing Health*.
3680 Washington, DC: The National Academies Press.
- 3681 Institute of Medicine (IOM). (2003). *Health professions education: A bridge to quality*. Washington, DC:
3682 National Academies Press.
- 3683 Institute of Medicine (IOM). (2001). *Crossing the quality chasm: A new health system for the 21st*
3684 *century*. Washington, DC: National Academies Press.
- 3685 Interprofessional Education Collaborative Expert Panel (IECEP). (2011). *Core competencies for*
3686 *interprofessional collaborative practice: Report of an expert panel*. Washington, D.C.: Interprofessional
3687 Education Collaborative. Also available online: [http://www.aacn.nche.edu/education-](http://www.aacn.nche.edu/education-resources/ipcreport.pdf)
3688 [resources/ipcreport.pdf](http://www.aacn.nche.edu/education-resources/ipcreport.pdf)
3689
- 3690 International Society of Nurses in Genetics & American Nurses Association. (2016). *Genetics/genomics*
3691 *nursing: Scope and standards of practice*, 2nd Edition. Silver Springs, MD: Nursebooks.org
3692
- 3693 International Society of Nurses in Genetics, Inc. (ISONG) & American Nurses Association. (2006).
3694 *Genetics-genomics nursing: Scope and standards of practice*. Silver Spring, MD: Nursesbooks.org.
- 3695 International Society of Nurses in Genetics, Inc. (ISONG) & American Nurses Association. (1998).
3696 *Statement on the scope and standards of genetics clinical nursing practice*. Washington, DC: American
3697 Nurses Publishing.
3698
- 3699 Interprofessional Education Collaborative Expert Panel. (2011). *Core competencies for interprofessional*
3700 *collaborative practice: Report of an expert panel*. Washington, D.C.: Interprofessional Education
3701 Collaborative.
3702

- 3703 Janicki, M.P., Dalton, A.J., Henderson, C.M., Davidson, P.W. (1999). Mortality and morbidity among older
3704 adults with intellectual disability: Health services considerations. *Disability Rehabilitation*, 21, 284-294.
- 3705 Jaques, H., Lewis, P., O'Reilly, K., Wiese, M., Wilson, N. J. (2018). Understanding the contemporary role
3706 of the intellectual disability nurse: A review of the literature. *Journal of Clinical Nursing*. 27, 3858-3871.
- 3707 Jiang, J. (2018). Millennials stand out for their technology use, but older generations also embrace digital
3708 life, Pew Research Center. Retrieved on May 12, 2019 from: [https://www.pewresearch.org/fact-](https://www.pewresearch.org/fact-tank/2018/05/02/millennials-stand-out-for-their-technology-use-but-older-generations-also-embrace-digital-life/)
3709 [tank/2018/05/02/millennials-stand-out-for-their-technology-use-but-older-generations-also-embrace-](https://www.pewresearch.org/fact-tank/2018/05/02/millennials-stand-out-for-their-technology-use-but-older-generations-also-embrace-digital-life/)
3710 [digital-life/](https://www.pewresearch.org/fact-tank/2018/05/02/millennials-stand-out-for-their-technology-use-but-older-generations-also-embrace-digital-life/)
- 3711 Kane, R.L., Shamilyan, T., Mueller, C., Duvall, S. & Wilt, T.J. (2007). Nurse staffing and quality of patient
3712 care. In: Agency for Healthcare Research and Quality Publication No. 07-E005. Rockville, MD: Agency for
3713 Healthcare Research and Quality.
- 3714 Kearney, S. H. (2009). Report of findings from the Post Entry Competence Study. NCSBN Research Brief.
3715 29: June. Retrieved from <http://www.ncsbn.org/986.htm>
- 3716 Kelly, L. A., McHugh, M. D., & Aiken, L. H. (2011). Nurse outcomes in Magnet® and non-Magnet
3717 hospitals. *Journal of Nursing Administration*, 41, 428–433.
- 3718 Kirch, D.G., Petelle K. Addressing the physician shortage: The peril of ignoring demography. *JAMA*.
3719 2017;317(19):1947–1948. doi:10.1001/jama.2017.2714.
- 3720 Kleier, J (2016). Adult Patients with Developmental Disorders: Are You Prepared? *Urologic Nursing*; 36
3721 (4), 161-162. doi:10.7257/1053-816X.2016.36.4.161
- 3722 Krishna A. (2018). Poison or Prevention? Understanding the Linkages between Vaccine-Negative
3723 Individuals' Knowledge Deficiency, Motivations, and Active Communication Behaviors. *Health*
3724 *Communication*, 33, 1088-1096. doi:10.1080/10410236.2017.1331307,
3725 10.1080/10410236.2017.1331307
- 3726 Kronk, R., Colbert, A., Smeltzer, S., & Blunt, E. (2019) Development of Prelicensure Nursing
3727 Competencies in Caring for People with Disabilities through Delphi Methodology, *Nurse Educator*
- 3728 Larson, S.A., Eschenbacher, H.J., Anderson, L.L., Taylor, B., Pettingell, S., Hewitt, A., Sowers, M., &
3729 Bourne, M.L. (2017). In-home and residential long-term supports and services for persons with
3730 intellectual or developmental disabilities: Status and trends through 2015. Minneapolis: University of
3731 Minnesota, Research and Training Center on Community Living, Institute on Community Integration.
- 3732 Lazarus, J. B., & Lee, N. G. (2006). Factoring consumers' perspectives into policy decisions for nursing
3733 competence. *Policy, Politics, & Nursing Practice*, 7, 195–207.
- 3734 Lechtenberger D. (2010) Education for All Handicapped Children Act of 1975. In: Clauss-Ehlers C.S. (eds)
3735 *Encyclopedia of Cross-Cultural School Psychology*. Springer, Boston, MA

- 3736 Leininger, M. M. (1988). Leininger's theory of nursing: Cultural care diversity and universality. *Nursing*
3737 *Science Quarterly*, 1(4), 152–160.
- 3738 Leininger, M. M., & McFarland, M. R. (2002). *Transcultural nursing: Concepts, theories, research and*
3739 *practice*. n.p.: McGraw-Hill Education.
- 3740 Livingston, G. (2018) More than a million Millennials are becoming moms each year. Fact tank, news in
3741 the numbers, Pew Research Center Retrieved on December 17, 2018 from:
3742 [http://www.pewresearch.org/fact-tank/2018/05/04/more-than-a-million-millennials-are-becoming-](http://www.pewresearch.org/fact-tank/2018/05/04/more-than-a-million-millennials-are-becoming-moms-each-year/)
3743 [moms-each-year/](http://www.pewresearch.org/fact-tank/2018/05/04/more-than-a-million-millennials-are-becoming-moms-each-year/)
- 3744 Lulinski, A., Jorwic, N.T., Tanis, E.S., & Braddock, D. (2018). Rebalancing of Long-Term Supports and
3745 Services for Individuals with Intellectual and Developmental Disabilities in the United States. *The State*
3746 *of the States in Intellectual and Developmental Disabilities, Data Brief*, (2) Retrieved on March 29, 2019
3747 from: Figure [https://www.colemaninstitute.org/wp-content/uploads/2018/04/SOS-Brief-](https://www.colemaninstitute.org/wp-content/uploads/2018/04/SOS-Brief-2018_2_Rebalancing.pdf)
3748 [2018_2_Rebalancing.pdf](https://www.colemaninstitute.org/wp-content/uploads/2018/04/SOS-Brief-2018_2_Rebalancing.pdf)
- 3749 Mahan, J. D., Betz, C. L., Okumura, M. J., & Ferris, M. E. (2017). Self-management and transition to adult
3750 health care in adolescents and young adults: A team process. *Pediatrics in Review*, 38 (7), 305-319.
- 3751 McFarland, M. R., & Wehbe-Alamah, H. B. (2015). The theory of culture care diversity and universality. In
3752 M. R. McFarland and H. B. Wehbe-Alamah (Eds.), *Leininger's culture care diversity and universality: A*
3753 *worldwide nursing theory* (3rd ed., p. 25). Burlington, MA: Jones and Bartlett Learning.
- 3754 McNelly, P. C. (1966, December). Operation six-pack. Paper presented at the Academy for Cerebral Palsy
3755 Meeting. New Orleans, LA (December 2–6).
- 3756 McMullan, M., Endacott, R., Gray, M., Jasper, M., Miller, C., Scholes, J., et al. (2003). Portfolios and
3757 assessment of competence: A review of the literature. *Journal of Advanced Nursing*, 41, 283–294.
- 3758 McPherson, M., Arango, P., Fox, H., Lauver, C., McManus, M., Newacheck, P., Perrin, J., Shonkoff, J., &
3759 Strickland, B. (1998). A new definition of children with special health care needs, *Pediatrics*, 102, 137-
3760 140
- 3761 Miller, J. A. (1979). A history of nursing at Central Wisconsin Center for the developmentally disabled.
3762 Unpublished manuscript, University of Illinois at Chicago.
- 3763 Moffitt, Phillip (2004), in M. Koloroutis (ed.) *Relationship-based care: A model for transforming practice*.
3764 Minneapolis: Creative Health Care Management.
- 3765 Moulton, B., & King, J.S. (2010). Aligning ethics with medical decision-making: the quest for informed
3766 patient choice. *Journal of Law and Medical Ethics*, 38, 85-97. doi: 10.1111/j.1748-720X.2010.00469. x.
- 3767 National Association of School Nurses (NASN). (2019a). Transition planning for students with healthcare
3768 needs (Position Statement). [Internet] Silver Spring, MD: NASN. Retrieved on May 29, 2019 from:
3769 <https://www.nasn.org.ps-transition>.

- 3770 National Association of School Nurses (NASN). (2019b) Special needs school nurses. Retrieved on May
3771 29, 2019 from: [https://www.nasn.org/nasn/membership/current-members/sigs/membership-get-
connected-snsn](https://www.nasn.org/nasn/membership/current-members/sigs/membership-get-
3772 connected-snsn)
- 3773 National Association of School Nurses. (2018). The role of the 21st century school nurse (Position
3774 Statement). Silver Spring, MD: Author.
- 3775 National Association of School Nurses. (2017). Students with chronic health conditions: The role of the
3776 school nurse (Position Statement). Silver Spring, MD: Author.
- 3777 National Association of School Nurses. (2014). Transition planning for students with chronic health
3778 conditions (Position Statement). Silver Spring, MD: Author.
- 3779 National Association of School Nurses & American Nurses Association (2017). School nursing: Scope and
3780 standards of practice 3rd edition. Silver Springs, MD: Nursebooks.org [https://www.nasn.org/nasn/nasn-
resources/professional-topics/scope-standards](https://www.nasn.org/nasn/nasn-
3781 resources/professional-topics/scope-standards)
- 3782 National Council of State Boards of Nursing (NCSBN). (2005). Meeting the ongoing challenge of
3783 continued competence. Chicago, IL: Author. <http://www.ncsbn.org>
- 3784 National Institutes of Health, Fact Sheets, Intellectual and Developmental Disabilities, Retrieved on
3785 March 25, 2019 from: <https://report.nih.gov/nihfactsheets/ViewFactSheet.aspx?csid=100>.
- 3786 Needleman, J. (2015). Nurse Staffing: The knowns and unknowns. *Nursing economic\$. 33*, 15–7.
- 3787 Nehring, W. M. (2010). Historical perspective and emerging trends. In C.L. Betz & W.M. Nehring (Eds.).
3788 Nursing care for individuals with intellectual and developmental disabilities: An integrated approach (pp.
3789 1-17). Baltimore: Brookes Publishing.
- 3790 Nehring, W. M. (Ed.). (2005). Core curriculum for specializing in intellectual and developmental
3791 disability: A resource for nurses and other health care professionals. Boston, MA: Jones and Bartlett.
- 3792 Nehring, W. M. (1999). A history of nursing in the field of mental retardation and developmental
3793 disabilities. Washington, DC: American Association on Mental Retardation.
- 3794 Nehring, W. M., & Lindsey, B. (2016). History of health care for people with intellectual and
3795 developmental disability. In I.L. Rubin, J. Merrick, D.E. Greydanus, & D.R. Patel (Eds.). Health care for
3796 people with intellectual and developmental disabilities across the lifespan. Part 1 (pp. 33-46).
3797 Switzerland: Springer International Publishing.
- 3798 Nehring, W.M., Natvig, D., Betz, C.L., Savage, T., & Krajicek, M. (Eds.). (2013). Intellectual and
3799 Developmental Nursing: Scope and Standards of Practice. Silver Spring, MD: American Nurses
3800 Association and Nursing Division of the American Association on Intellectual and Developmental
3801 Disabilities.
- 3802 Nickel, W.K., Weinberger, S.E., Guze, P.A., & Patient Partnership in Healthcare Committee of the

- 3803 American College of Physicians. (2018). Principles for Patient and Family Partnership in Care: An
3804 American College of Physicians Position Paper. *Annals of Internal Medicine*, 169, 796-799.
3805
- 3806 Nightingale, F. (1859). *Notes on nursing: What it is and what it is not*. London, UK: John W. Parker and
3807 Son.
- 3808 Nursing Division of the American Association on Mental Retardation & American Nurses Association.
3809 (1998). *Statement on the scope and standards for the nurse who specializes in developmental*
3810 *disabilities and/or mental retardation*. Washington, DC: American Nurses Publishing.
- 3811 O'Reilly, K., Lewis, P., Wiese, M., Goddard, L., Trip, H., Conder, J., Charnock, D., Lin, Z., Jacques, H., &
3812 Wilson, N.J., (2018). An exploration of the practice, policy and legislative issues of the specialist area of
3813 nursing people with intellectual disability: A scoping review. *Nursing Inquiry*., 25(4), e12258.
3814 <https://doi.org/10.1111/nin.12258>
- 3815 Patja, K., Iivanainen, M., Vesala, H., Oksanen, H., & Ruoppila, I. (2000). Life expectancy of people with
3816 intellectual disability: a 35-year follow-up study. *Journal of Intellectual Disability Research*., 44(5), 591–
3817 599. <https://doi.org/10.1046/j.1365-2788.2000.00280.x>
- 3818 Papastavrou, E., Efstathiou, G., Acaroglu, R., Luz, M. D., Berg, A., Idvall, E., et al. (2011). A seven country
3819 comparison of nurses' perceptions of their professional practice environment. *Journal of Nursing*
3820 *Management*. doi:10.1111/j.1365-2834.2011.01289.x.
- 3821 Progress and Precision: The NCSBN 2018 Environmental Scan, *Journal of Nursing Regulation*, 8,
3822 Supplement, S3-S6, doi.org/10.1016/S2155-8256(18)30014-0.
- 3823 Prouty, R.W., Alba, K., & Lakin, C.K. (2008). *Residential services for persons with developmental*
3824 *disabilities: Status and trends through 2007*, Research and Training Center on Community Living.
3825 Minneapolis, MN: University of Minnesota
- 3826 Reiss, S., Levitan, G.W., Szyszko, J. (1982). Emotional disturbance and mental retardation: Diagnostic
3827 overshadowing. *American Journal of Mental Deficiency*. 86, 567–574.
- 3828 Robert Wood Johnson Foundation (2013). *The case for academic progression. Charting nursing's future*.
3829 Retrieved on December 3, 2018 from:
3830 https://www.rwjf.org/content/dam/farm/reports/issue_briefs/2013/rwjf407597
- 3831 Rosen, D.S. (2003). Transition to adult health care for adolescents and young adults with chronic
3832 conditions. *Journal of Adolescent Health*, 33, 309-311.
- 3833 Roth, S. P., & Morse, J. S. (Eds.). (1994). *A life-span approach to nursing care for individuals with*
3834 *developmental disabilities*. Baltimore, MD: Paul H. Brookes.
- 3835 Schalock, R. L., Borthwick-Duffy, S.A., Bradley, V.J., Buntix, W.H.E., Coulter, D.L., Craig, E.M., Gomez, S.C.,
3836 Lachapelle, Y., Luckasson, R., Reeve, A., Shogren, K.A., Snell, M.E., Spreat, S., Tasse, M.J., Thompson, J.R.,
3837 Verdugo-Alonso, M.A., Wehmeyer, M.L., & Yeager, M.H., (2010). *Intellectual Disability: Definition,*

- 3838 Classification, and Systems of Supports (11th Edition) Silver Spring, MD: American Association on
3839 Intellectual and Developmental Disabilities (AAIDD).
- 3840 Scott Tilley, D. D. (2008). Competency in nursing: A concept analysis. *Journal of Continuing Education in*
3841 *Nursing*, 39(2), 58–64.
- 3842 Smith, S. (2012). Nurse Competence: A Concept Analysis. *International Journal of Nursing Knowledge.*,
3843 23, 172–182. <https://doi.org/10.1111/j.2047-3095.2012.01225.x>
- 3844 Society of Pediatric Nurses, National Association of Pediatric Nurse Practitioners, & American Nurses
3845 Association. (2015). *Pediatric nursing: Scope and standards of practice*, 2nd Edition. Silver Springs, MD:
3846 Nursebooks.org
- 3847 Stephens. & Gunther, M.E. (2016). Twitter, millennials, and nursing education research. *Nursing Edu*
- 3848 Styles, M. M., Schumann, M. J., Bickford, C. J., & White, K. (2008). *Specializing and credentialing in*
3849 *nursing revisited: Understanding the issues, advancing the profession*. Silver Spring, MD: American
3850 Nurses Association.
- 3851 Sumner, G., & Spietz, A. (1994). *NCAST caregiver/parent-child interaction teaching manual*. Seattle, WA:
3852 NCAST Publications, University of Washington, School of Nursing.
- 3853 Talente, G., LeComte, J. (2013) SGIM announces the formation of the adults with complex conditions
3854 originating in childhood task force. *SGIM Forum*: 36, 1, 12.
- 3855 The Joint Commission (2012). *Hot topics in health care: Transitions of care: The need for a more*
3856 *effective approach to continuing patient care*. Author: Oakbrook Terrace, IL. Retrieved from
3857 http://www.jointcommission.org/assets/1/18/Hot_Topics_Transitions_of_Care.pdf
- 3858 Towle, A., Godolphin, W., Grams, G., Lamarre, A., (2006). Putting informed and shared decision making
3859 into practice. *Health Expectations*, 9, 321-332.
- 3860 Trollor, J.N., Eagleson, C., Turner, B., Salomon, C., Cashin, A., Iacono, T., Goddard, L., & Lennox, N.
3861 (2018). Intellectual disability content within pre-registration nursing curriculum: How is it taught? *Nurse*
3862 *Education Today*, 69, 48-52. doi:10.1016/j.nedt.2018.07.002, 10.1016/j.nedt.2018.07.002
- 3863 United States Census Bureau (2017). *Population projections: 2017*, Retrieved on December 17, 2018
3864 from: <https://www.census.gov/programs-surveys/popproj/data/datasets.html>
- 3865 U.S. Department of Health and Human Services (2019). *Healthy People 2020: Disability and Health*.
3866 Retrieved on March 27, 2019 from: [https://www.healthypeople.gov/2020/topics-](https://www.healthypeople.gov/2020/topics-objectives/topic/disability-and-health)
3867 [objectives/topic/disability-and-health](https://www.healthypeople.gov/2020/topics-objectives/topic/disability-and-health)
- 3868 U.S. Department of Health and Human Services. National Institutes of Health. Eunice Kennedy Shriver
3869 National Institute of Child Health and Human Development (2018a). *What are some types of assistive*

- 3870 devices and how are they used? Retrieved on May 29, 2019 from:
3871 <https://www.nichd.nih.gov/health/topics/rehabtech/conditioninfo/device>
- 3872 U.S. Department of Health and Human Services. National Institutes of Health. Eunice Kennedy Shriver
3873 National Institute of Child Health and Human Development (2018b). What are some types of
3874 rehabilitative technologies? Retrieved on May 29, 2019 from:
3875 <https://www.nichd.nih.gov/health/topics/rehabtech/conditioninfo/use>
3876
- 3877 United States Department of Labor. Bureau of Labor Statistics, (2018). Occupational Employment and
3878 Wages, May 2018, 29-1141 Registered Nurses. Accessed May 12, 2019 from:
3879 <https://www.bls.gov/oes/current/oes291141.htm#ind>
- 3880 United States Department of Labor. Bureau of Labor Statistics, (2016b). Occupational Outlook
3881 Handbook, Nurse Anesthetists, Nurse Midwives, and Nurse Practitioners Accessed December 3, 2018
3882 from: [https://www.bls.gov/ooh/healthcare/nurse-anesthetists-nurse-midwives-and-nurse-](https://www.bls.gov/ooh/healthcare/nurse-anesthetists-nurse-midwives-and-nurse-practitioners.htm)
3883 [practitioners.htm](https://www.bls.gov/ooh/healthcare/nurse-anesthetists-nurse-midwives-and-nurse-practitioners.htm)
- 3884 U.S. Department of Labor, Occupational Safety and Health Administration (OSHA). (2015). Guidelines for
3885 preventing workplace violence for healthcare and social service workers. No. 3148-04R. Washington,
3886 D.C.: DOL, OSHA. Retrieved on March 27, 2019 from: <https://www.osha.gov/Publications/osa3148.pdf>
- 3887 U.S. Public Health Service. (2002). Closing the gap: A national blueprint for improving the health of
3888 individuals with mental retardation. (Report of the Surgeon General's Conference on Health Disparities
3889 and Mental Retardation.) Washington, DC: Author.
- 3890 United States Senate (2017). Senate Aging Committee examines aging with disabilities. Retrieved on
3891 March 30, 2019 from: [https://www.aging.senate.gov/press-releases/senate-aging-committee-examines-](https://www.aging.senate.gov/press-releases/senate-aging-committee-examines-aging-with-disabilities)
3892 [aging-with-disabilities](https://www.aging.senate.gov/press-releases/senate-aging-committee-examines-aging-with-disabilities)
- 3893 Vanderbilt Kennedy Center for Excellence in Developmental Disabilities. (2018). Informed consent in
3894 adults with intellectual or developmental disabilities. Retrieved from
3895 <https://vkc.mc.vanderbilt.edu/etoolkit/general-issues/informed-consent/>
- 3896 Watson, J. (2012). Human caring science: A theory of nursing (2nd ed.). Sudbury, MA: Jones and Bartlett
3897 Learning.
- 3898 Watson, J. (2008). The philosophy and science of caring. Boulder, CO: University Press of Colorado.
- 3899 Watson, J. (1999). Postmodern nursing and beyond. Edinburgh, UK: Churchill Livingstone.
- 3900 White PH, Cooley WC; Transitions Clinical Report Authoring Group; American Academy of Pediatrics;
3901 American Academy of Family Physicians; American College of Physicians. Supporting the Health Care
3902 Transition from Adolescence to Adulthood in the Medical Home. Pediatrics. 2018;142(5): e20182587

- 3903 Xue, Y., Kannan, V., Greener, E., Smith, J., Brasch, J., Brent, A.J., & Spetz, J. (2018). Full scope-of-practice
3904 regulation is associated with higher supply of nurse practitioners in rural and primary care health
3905 professional shortage counties. *Journal of Nursing Regulation*, 8, 5-13. [10.1016/S2155-8256\(17\)30176-X](https://doi.org/10.1016/S2155-8256(17)30176-X).
- 3906 Ying, X., Kannan, V., Greener, E., Smith, J.A., Brasch, J., Johnson, B.A., & Spetz, J. (2018). Full scope-of-
3907 practice regulation is associated with higher supply of nurse practitioners in rural and primary care
3908 health professional shortage counties, *Journal of Nursing Regulation*, 8, 5-13, [doi.org/10.1016/S2155-
3909 8256\(17\)30176-X](https://doi.org/10.1016/S2155-8256(17)30176-X).

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