

1 **PRINCIPLES OF STAFFING & WORKFORCE MANAGEMENT:**  
2 **THE FUTURE OF NURSING AS HOLISTIC PROVIDERS AND ADVOCATES OF CARE**

3  
4 **The Principles of Nurse Resources Aligned with the Triple Aim**

5 The Institute for Healthcare Improvement's (IHI's) Triple Aim strives to optimize health system  
6 performance. Initially articulated by Berwick  
7 (2008), per the Triple Aim, reforming health care  
8 requires the simultaneous pursuit of three  
9 dimensions:

- 10 • Improving patient experience of care  
11 (including quality and satisfaction)
- 12 • Improving health of populations
- 13 • Reducing per capita cost of health care

The Institute for Healthcare Improvement (IHI).was officially founded in 1991, but its antecedents began in the late 1980s as part of the National Demonstration Project on Quality Improvement in Health Care. IHI is committed to redesigning health care into a system without errors, waste, delay, and unsustainable costs.

14 Bodenheimer & Sinkov (2014) recommend that  
15 the Triple Aim should be updated to include a fourth aim: address clinician and staff  
16 satisfaction, and work-life balance. Staff satisfaction is also the underpinning for the Magnet  
17 Program development (ANA, ANCC, n.d.). It is built around the variables that institutions and  
18 nursing services create—the magnetism—that attracts and retains quality nurses.

19 The Triple/Quadruple Aim (henceforth as *Triple Aim*) sets to achieve quality care delivery at  
20 the level of patient centered care. Nurses, as providers of care, are uniquely qualified to best  
21 orchestrate and maximize each dimension of the Triple Aim framework:

22 *Nursing is a practice discipline and occurs as one nurse and one patient, family*  
23 *or community at a time. The encounter between a nurse and patient forms a*  
24 *fundamental bond that defines not only nursing as a profession, but each*  
25 *individual nurse as a provider of care. Nursing practice drives value and nurses*  
26 *have a direct and intimate influence on the quality, safety, and costs of patient*  
27 *centered care. If we define nursing value as the function of outcomes divided by*  
28 *costs, there is a need to better define those measures and analytics for patient*

29 *level costs and outcomes of nursing care. This fundamental shift to capture the*  
30 *patient or consumer impact of nursing care is an important expansion of how*  
31 *nursing value is quantified. This will require rethinking how we view nursing care*  
32 *delivery beyond solely measuring nursing in terms of tasks or ratios and staffing*  
33 *levels, to one that recognizes the individual and collective accomplishments and*  
34 *results provided by each nurse across the broad spectrum of care. True nursing*  
35 *value can only be described by measurement of the clinical and financial impact*  
36 *of nursing care. (Pappas & Welton, 2015)*

37 The Triple Aim and overall  
38 impact on care delivery are  
39 meant to translate across the  
40 continuum of care, beginning  
41 at the individual level and  
42 expanding to population health  
43 at the systems level. For  
44 example, the Centers for  
45 Medicare & Medicaid Services  
46 (CMMS) *Reform of*  
47 *Requirements for Long-Term*  
48 *Care Facilities* (2016) is an  
49 update of the original 1991 document to reflect not only changes in theory and  
50 practice, but to reinforce the Triple Aim tenets to strengthen and modernize the  
51 nation's health care system, providing access to high quality care and improved health  
52 at lower cost.

Registered nurses (RNs) are chartered with 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 (ANA, n.d., c). As providers and advocates of care, RNs practice in all healthcare settings: hospitals, nursing homes, medical offices, ambulatory care centers, community health centers, schools, and retail clinics. They also provide health care in more surprising locations such as camps, homeless shelters, prisons, sporting events, and tourist destinations (ANA, n.d., d).

### 53 **Preface: Nurses and Staffing—A Complex and Multilevel Healthcare and Delivery Issue**

54 Since the original 1999 publication of ANA's *Principles for Nurse Staffing*, staffing issues  
55 facing the profession have reached multidimensional heights in complexity. Aging populations  
56 of patients and nurses, competing priorities for health care dollars, and regional registered

57 nurse shortages individually and collectively place the profession in a potentially perilous  
58 situation. To add to the mix future nursing school graduates may not be able to meet  
59 increasing workforce demands characterized by a blossoming baby boomer population and  
60 retiring senior nurses. Such pressures on registered nurses (RNs) to provide expert care across  
61 the spectrum of healthcare consumers—from neonates to frail elders—cause nurses to seek  
62 the definitive answer for ascertaining the right number of patients per RN within care units; the  
63 optimum staffing system; and the optimum skill mix of licensed and unlicensed nursing  
64 personnel needed to meet a patient’s needs (Kurtzman, 2010a). Research has addressed these  
65 issues and begins to provide solutions (See Annex-- Safe Staffing Literature Review, 2017).  
66 However, further research is needed to provide answers and workable staffing models in  
67 demanding settings.

## 68 **The Many Dimensions of Nursing and Staffing**

### 69 *Nurses’ Professional Characteristics, Outcomes of Care, and Levels of Care*

70 Nurse staffing is more than just meeting a “ratio” of a certain number of nurses for a given  
71 number of patients. Ultimately, any nursing care delivery system must provide the necessary  
72 nursing resources to meet each patient’s individual needs and the unit’s collective needs. All  
73 nurses are providers of care. As such, the individual characteristics of each nurse—experience,  
74 knowledge, specific skill set, and overall attitude and professional judgment—directly impact  
75 the outcomes of care. This is achieved individually as part of the professional accountability and  
76 responsibility for each nurse, but also collectively among groups of nurses working  
77 collaboratively with other healthcare team members to provide the optimal care to each  
78 patient at an optimum price (cost) to achieve best value. From a systems standpoint, each care  
79 setting must balance both quality and safety towards achievement of best practices and  
80 outcomes with the overall expenditure of nursing resources and the costs associated with those  
81 resources to achieve an optimum outcome of care (Li, et al., 2011; Welton & Harper, 2015).

82 ANA believes that the interaction where care is given—the encounter between a nurse and  
83 patient/healthcare consumer, family, or community—is where these concerns need to be  
84 addressed and solutions developed. The *Principles* document provides a framework to help

85 direct care nurses, nurse leaders and health care administrators address questions about  
86 appropriate staffing levels, provide measurable criteria to assess the sufficiency of staffing, skill  
87 mix, experience, assignment patterns, and readiness of nurses and nursing staff to provide  
88 patient care, and the criteria for reviewing staffing systems within a nursing care delivery  
89 system (Cathro, 2013; Sir, Dundar, Barker Steege & Pasupathy, 2015). The *Principles* document  
90 also provides a framework to ensure there are comprehensive mechanisms in place within a  
91 nursing care delivery system to address fluctuations in the nursing workforce and to ensure  
92 that nursing resources are adapted and applied in a timely manner to meet the changing needs  
93 of patients, units, populations, or communities.

94 Registered nursing is a “knowledge-based” practice with a significant psychomotor skills  
95 component. Although RNs perform tasks such as sterile dressing changes and medication  
96 administration, the knowledge and expertise they obtain through their educational programs  
97 and work experiences guide the clinical decision-making and cognitive skills needed to provide  
98 the full scope of nursing care to the right patient at the right time in the right setting. Having an  
99 adequate complement of registered nurses and other nursing personnel within a particular  
100 clinical setting is a necessary first step to providing optimum care. However, a nurse’s  
101 experience, expertise with a patient population, educational preparation, as well as attitude,  
102 professional bearing, and belief in essential nurse caring and healing also have an important  
103 role in achieving optimum outcomes of care.

104 Major ethical and foundational work guide ANA’s conceptualization of the forces that drive  
105 nurse staffing decisions. First and foremost is the concern for the patient and the type of care  
106 the patient requires. Second is the concern for the well-being of the nurse, which directly and  
107 indirectly affects patient care. As is required of registered nurses in each of the profession’s  
108 foundational documents—*The Code of Ethics for Nurses with Interpretive Statements* (ANA,  
109 2015a), *Guide to Nursing’s Social Policy Statement* (Fowler, 2015), and *Nursing: Scope and  
110 Standards of Practice, 3<sup>rd</sup> Edition* (ANA, 2015b)—patient safety and well-being are the critical  
111 factor that guides all decision-making.

112 *The Care Settings of Registered Nurses and Staffing*

113 Nurses provide care in many different places, geographic locations, and at different times or  
114 days, but always in a continual professional relationship. The classic setting is an inpatient unit  
115 where nurses provide continuous, around the clock care. Other venues which provide  
116 continuous care are skilled nursing facilities, long term acute care (LTAC), rehabilitation  
117 facilities, and inpatient hospice. Alternatively, settings may provide intermittent encounters  
118 with patients/healthcare consumers, families or communities such as a home health nurse,  
119 school-based nurse, nurse educators, ambulatory care, surgery centers, or public health  
120 nursing. These divergent locales where nursing care is provided are relevant to understanding  
121 how to staff and assign nurses based on needs of the patients (or families and communities).  
122 For example, in settings that require continuous care, as in hospitals or skilled nursing facilities,  
123 nurses care for groups of patients simultaneously and there is a need to understand the acuity  
124 of the population in order to predict the number and expertise of each nurse needed during a  
125 particular time period, as well as assign patients to nurses who possess the expertise for that  
126 patient assignment (Needleman, 2013).

127 For intermittent encounters with patients, such as hospice or home health care, need is  
128 based on a particular visit and the individualized services provided during the time a nurse  
129 encounters the patient or between visits when activities such as care coordination may occur.  
130 Unlike inpatient nursing care, home or hospice visits are typically provided by a single nurse  
131 who travels to the patient so additional considerations are necessary to access the patient  
132 population and reasonably assess care needs and types of services required by each patient.  
133 The care setting is an important consideration in determining where and how nurses are  
134 allocated to patient care. In the inpatient environment, considerable overlap in care may exist.  
135 For example, an experienced nurse may mentor a new graduate, both of whom are providing  
136 care. In a home health or other settings where nurses may be providing care alone with a  
137 patient or family member, consideration needs to be given to the preparation and experience  
138 of that nurse to deliver optimum care. Supporting nursing care in settings where patients are  
139 remote or where access to supplies and technology may be factors in providing safe and high  
140 quality care, present yet another varied setting.

141 **Effective, Safe, Timely Care Delivery**

142 *Defining Appropriate Nurse Staffing*

143 Appropriate nurse staffing and assignment are a match of registered nurse education,  
144 experience and competence with the needs of the recipient of nursing care services in the  
145 context of the practice setting and situation. The provision of appropriate nurse personnel is  
146 necessary to reach safety and quality care outcomes. To achieve these outcomes, nurses at all  
147 levels engage in dynamic processes of multi-faceted decision-making that consider a wide range  
148 of variables to include, but not limited to: personal nurse attributes such as temperament,  
149 education/preparation, and experience; unit resources of number, type, and skill mix of RN,  
150 LPN/LVN, unlicensed assistive personnel (UAP); and environmental turbulence, i.e., rapid  
151 admissions, turnovers, and/or discharges (Aiken, et al., 2017).

152 *Core Components of Nurse Staffing (Avalere, 2015)*

153 In 2015, the American Nurses Association (ANA) collaborated with *Avalere, LLC* to explore the  
154 clinical case for using optimal nurse staffing models to achieve improvements in patient  
155 outcomes. Core components outlined include:

- 156 • All settings should have well-developed, dynamic staffing guidelines with  
157 measurable nurse-sensitive outcomes specific to that setting and healthcare  
158 consumer population.
- 159 • RNs at all levels are full partners working with other healthcare professionals in  
160 collaborative, interdisciplinary partnerships.
- 161 • RNs must have a substantive and active voice in staffing decisions to ensure the  
162 necessary time with patients to meet care needs and overall nursing responsibilities.
- 163 • Staffing needs are determined based on an analysis of a patient's status (e.g., degree  
164 of stability, intensity, and acuity), and the environment in which the care is provided.  
165 Other considerations to be included are: professional characteristics and skill set,  
166 and previous staffing patterns that have been shown to improve outcomes.
- 167 • Appropriate nurse staffing should be based on allocating the appropriate number of  
168 competent RNs to a care situation; pursuing quality of care indices; meeting

169 consumer-centered and organizational outcomes; meeting federal and state laws  
170 and regulations; and attending to a safe, quality work environment.

- 171 • Cost-effectiveness is an important consideration in delivery of safe, quality care. In  
172 order to maximize the true value of the nurse providing care, nursing costs per  
173 patient need to be measured and linked with reimbursement, performance metrics,  
174 and value-based nursing care models.
- 175 • Reimbursement structure should not influence nurse staffing patterns or the level of  
176 care provided. In order to do this, a better understanding of nursing finance is  
177 necessary, to identify nursing services costs as well as their revenues within the  
178 overall business of caring. Ultimately decisions on how many nurses and other  
179 personnel—the skill and experience mix—need to be considered and calculated at  
180 the individual patient level rather than broad bundling centered on staffing ratios.

181 Organizational transparency and accountability frequently aid efforts, through accessible and  
182 often comparative channels, to measure and hold institutional leadership and care providers  
183 responsible for their decisions and actions regarding criteria for employment and nurse staffing  
184 decisions, including assignments. Along with performance-based payment programs, both the  
185 Department of Health and Human Services (HHS) and the National Academy of Medicine (NAM)  
186 [formerly the Institute of Medicine (IOM)] have recognized transparency and accountability as  
187 key components to healing a US healthcare system that is inefficient, fragmented, and unsafe  
188 (Kurtzman, 2010b). Transparency can be addressed by using existing data to link the care of  
189 nurses to patient outcomes and costs of care. Future efforts to identify best practices on nurse  
190 staffing and assignment patterns will use increasingly sophisticated data collection and analysis  
191 techniques that use evolving data science and business intelligence methods to help nursing  
192 and health care leaders optimize nursing care delivery systems.

193 ANA's policy advocacy for quality care to promote transparency has been successful in key  
194 steps to achieve public reporting of staffing and skill mix data through work at the National  
195 Quality Forum (NQF). Specifically, reporting these nurse staffing measures and outcomes  
196 publicly will act as an effective quality policy lever to reduce staffing variance in hospital nurse  
197 staffing and skill mix that is associated with patient death and harm (ANA, n.d., a). Future policy

198 efforts may include pay for nursing performance measures as well as adjusting reimbursement  
199 to providers based on the value rather than amount of nursing care provided to each patient.

## 200 **Cost Efficient, Equitable, Patient Centered Care**

### 201 *RNs Fiscal Knowledge Base*

202 Today, nurses at all levels must understand the relationship between staffing; costs; and  
203 patient/healthcare consumer, employee and, organizational outcomes. Questions we can ask  
204 and areas for exploration include:

- 205 • How do nurse staffing levels and patient assignments maximize care delivery and what  
206 are the associated costs of nursing care at the individual patient level?
- 207 • What additional real-time data are needed to optimize nursing care delivery?
- 208 • How can we benchmark nursing care across different settings to assure best outcomes  
209 at optimum cost?
- 210 • Which settings are providing the best value nursing care and how can those practices be  
211 emulated across the broad spectrum of care settings?

212 Further discussion is needed on how the costs of nursing care, the actual time and direct costs  
213 of nurses are allocated to individual patients, as well as the indirect costs of a nursing care  
214 delivery system are incorporated into current billing and reimbursement for healthcare. In  
215 doing so, an alignment of payment for optimum nursing care provided can be articulated and  
216 two major public policy problems can be addressed:

- 217 1. In current healthcare payment policy, nursing care is generally hidden within daily room  
218 rates or facility fees; therefore, the actual expert professional care provided by  
219 registered nurses and these service costs are unknown to patients or administrators.  
220 Some patients consume more nursing care but are charged the average, other receive  
221 less care than average but are billed at a higher rate. There is clear evidence when  
222 nurse staffing falls below needed care, there is an increase in adverse events and higher  
223 costs of care compared to adequate staffing levels (Aiken, et al., 2007; McHugh, et al.,  
224 2016; Pappas, 2008).



225 2. There is a perverse incentive for facilities to cut nursing care as it represents one of the  
226 largest components of healthcare expenditures and is not  
227 directly linked to billing and payment for care. Therefore it  
228 is imperative that nursing care be identified within the  
229 national healthcare payment structure, allocated directly to  
230 usage consumed per patient, payment be aligned with  
231 adequate and appropriate nursing care consumed, and data  
232 from nurse billing systems be used to identify metrics of  
233 optimum nursing care.

A **perverse incentive** is one that has an undesirable or contrary result from that which is intended (Masaki Flynn, 2009).

234 The staffing process can be considered in four phases:

- 235 • **Forecasting**, to include budgeting and planning based on expected future patient  
236 volume and acuity
- 237 • **Scheduling** of adequate number of nurses and other nursing personnel to address  
238 current needs of patients
- 239 • **Assigning** staff based on needs of each patient and balanced workload across the  
240 scheduled nurses and nursing personnel
- 241 • **Improving**, to include monitoring and analyzing, performance, quality and safety,  
242 and outcomes of nursing care

243 Scheduling and staffing assignments help operationalize the budget plan, while the process of  
244 improving and adjusting these variables based on analysis ensures the delivery of an  
245 exceptional experience of care in a cost-effective manner (ANA, n.d., b).

246 **Principles Related to the Patient/Healthcare Consumer (ANA, 2012b)**

247 Nurse staffing decisions should be based on the characteristics and needs of the individual  
248 patient, family, and population served. These include, but are not limited to, patient:

- 249 • Age and functional ability
- 250 • Communication skills

- 251 • Cultural and linguistic diversities
- 252 • Complexity of care needs, based on severity, intensity, acuity, and stability of
- 253 condition,
- 254 • Existence and severity of multiple morbid conditions
- 255 • Scheduled procedure(s)
- 256 • Ability to meet healthcare requisites
- 257 • Availability of social supports
- 258 • Transitional care, within or beyond the healthcare setting
- 259 • Continuity of care
- 260 • Environmental turbulence (i.e., rapid admissions, turnovers, and/or discharges)
- 261 • Other specific needs identified by the patient/healthcare consumer, the family, and
- 262 the registered nurse.

263 In any approach used to determine appropriate nurse staffing, consideration must be given  
264 to the elements affecting care at the individual setting level. No single method, model or  
265 assessment tool (e.g., nursing hours per patient  
266 day [NHPPD], case mix index (CMI), nursing  
267 intensity weights, mandatory nurse-to-patient  
268 ratios) has provided sufficient evidence to be  
269 considered optimal in all settings and all  
270 situations. Each setting should have staffing  
271 guidelines based on safety indicators and  
272 outcomes specific to that area and population.

273 The following elements are to be considered when  
274 making the determination:

- 275 • Professional/Shared governance for
- 276 nursing practice
- 277 • Involvement in quality measurement
- 278 activities
- 279 • Quality of work environment of nurses

“Professional” governance structures underscore the role of professionals and their obligation to make a positive contribution to the lives of individuals and communities. The structures must address 4 core elements of professional practice: accountability, partnership, ownership, and equity. “Shared” governance was introduced over 45 years ago as an approach to structural empowerment where nurses embody and operationalize autonomy and control over practice (Clavelle, O’Grady, Weston, & Verran, 2016).

- 280 • Development and implementation of comprehensive plans of care
- 281 • Practice environment
- 282 • Architectural geography of unit and institution
- 283 • Evaluation of practice outcomes that include quality, safety and costs
- 284 • Available technology and support services
- 285 • Evolving evidence

## 286 **Principles Related to Organization and Workplace Culture**

287 Florence Nightingale in *Notes on Hospitals* (1863) eloquently observed:

288 *In attempting to arrive at the truth, I have applied everywhere for information,*  
289 *but in scarcely an instance have I been able to obtain hospital records fit for any*  
290 *purposes of comparison. If they could be obtained, they would enable us to*  
291 *decide many other questions besides the one alluded to. They would show*  
292 *subscribers how their money was being spent, what amount of good was really*  
293 *being done with it, or whether the money was not doing mischief rather than*  
294 *good; they would tell us the exact sanitary state of every hospital and of every*  
295 *ward in it, where to seek for causes of insalubrity and their nature; and, if wisely*  
296 *used, these improved statistics would tell us more of the relative value of*  
297 *particular operations and modes of treatment than we have any means of*  
298 *ascertaining at present. They would enable us, besides, to ascertain the influence*  
299 *of the hospital with its numerous diseased inmates, its overcrowded and possibly*  
300 *ill-ventilated wards, its bad site, bad drainage, impure water, and want of*  
301 *cleanliness - or the reverse of all these - upon the general course of operations*  
302 *and diseases passing through its wards; and the truth thus ascertained would*  
303 *enable us to save life and suffering, and to improve the treatment and*  
304 *management of the sick and maimed poor.*

305 Healthcare leaders must create a workplace environment that values registered nurses and  
306 other employees as critical assets. Policies should support the ability of RNs to practice to the  
307 full extent of their education, scope of practice, and top of their licensure. To maximize safe

308 patient care and quality outcomes, health system leaders should recognize that in addition to  
309 appropriate registered nurse staffing, they must provide inter-professional support and  
310 ancillary services. These include at a minimum:

- 311 • Sufficient orientation and preparation, including direct and indirect supervision by  
312 nurse preceptors, nurse experts, nurse educators and mentors to ensure registered  
313 nurse competency in patient care delivery and utilization of clinical technology
- 314 • Access to timely, accurate, relevant information provided by technology that links  
315 clinical, administrative, and outcome data to aid in care planning and  
316 implementation
- 317 • Timely coordination, supervision, and delegation to trained unlicensed assistive  
318 personnel as needed to maximize safety
- 319 • Support in ethical decision-making in care planning and care delivery
- 320 • Resources and pathways for care coordination and health education for the  
321 patient/healthcare consumer and/or family
- 322 • Effective, efficient, and timely support services (e.g., transport, clerical,  
323 housekeeping, and laboratory) to minimize service 'turn-around time'
- 324 • Preparation and ongoing training for competency in technology or other tools
- 325 • Sufficient time for accurate, contemporaneous patient documentation
- 326 • Time to accommodate documentation created by integration of technology,  
327 electronic records, surveillance systems, and regulatory requirements.
- 328 • Processes to facilitate transitions during work redesign, mergers, and other major  
329 changes in work life from the unit level to the organization system level
- 330 • Create a culture of values that support respect, trust, collaboration, and team  
331 building across the professions that cultivate loyalty and ultimately retention.
- 332 • Create unique opportunities and resources for the registered nurse to maintain  
333 continuing education and engagement in lifelong learning as part of professional  
334 responsibility.

335 The specific needs of the population served should determine the appropriate competencies  
336 of the registered nurse practicing in that area. The organization must specify the appropriate  
337 credentials, competencies required, and qualifications of RNs for its populations of patients,  
338 and hire RNs who meet those qualifications, while ensuring nurses are permitted to practice to  
339 the full extent of their education, competency, scope of practice, and top of licensure.

340 The following nurse characteristics should be taken into account when determining nurse  
341 staffing:

- 342 • Licensure
- 343 • Experience with the population being served
- 344 • Level of expertise (i.e., novice to expert)
- 345 • Competency with technology and clinical interventions
- 346 • Professional certification
- 347 • Educational preparation
- 348 • Language and communication capabilities
- 349 • Organizational experience

350 Staffing plans must accommodate for experienced registered nurses across the staffing  
351 schedule who can offer clinical support to other staff. Adjustments in staffing and assignments  
352 should be considered to incorporate mentoring and skill development needs of nurses.

353 Factors such as nurse satisfaction, burnout, turnover, retention, precepting students or new  
354 staff, mentoring, care coordination, skill with technology, use of agency or contractual staff,  
355 competency requirements, and staff development should be monitored regularly to ensure that  
356 staffing outcomes are measured and adjusted. **Nursing students and precepted students are**  
357 **not staff and cannot be treated as such.**

358 Registered nurses must have the decision-making authority to alter staffing in real time to  
359 accommodate changing and anticipated healthcare consumer needs, registered nurse  
360 competency and skill levels, in order to assure appropriate staffing in rapidly fluctuating  
361 situations.

362 *Documentation and Communication within the Healthcare Team (ANA, 2010)*

363 Nurses and other healthcare providers aim to share information about patients and  
364 organizational functions that is accurate, timely, contemporaneous, concise, thorough,  
365 organized, and confidential.

366 Information is communicated verbally and in written and electronic formats across all settings.  
367 Written and electronic documentation provide durable and retrievable records. Foremost of  
368 such electronic documentation is the electronic health record (EHR), which provides an  
369 integrated, real-time method of informing the healthcare team about the patient status. To  
370 enable the healthcare team to ensure informed decisions and provide high quality care in the  
371 continuity of patient care, timely documentation of the following types of information should  
372 be made and maintained in a patient's EHR :

- 373 • Assessments
- 374 • Clinical problems
- 375 • Communications with other healthcare professionals regarding the patient
- 376 • Communication with and education of the patient, family, and the patient's  
377 designated support person and other third parties
- 378 • Medication records (ie, MAR)
- 379 • Order acknowledgement, implementation, and management
- 380 • Patient clinical parameters
- 381 • Documentation of interventions
- 382 • Patient responses and outcomes, including changes in the patient's status
- 383 • Plans of care that reflect the social and cultural framework of the patient

384 High quality documentation is:

- 385 • Accessible
- 386 • Accurate, relevant, consistent and complete
- 387 • Auditable
- 388 • Clear, concise, and complete

- 389 • Legible/readable (particularly in terms of the resolution
- 390 • and related qualities of EHR content as it is displayed
- 391 • on the screens of various devices)
- 392 • Timely, contemporary, and sequential
- 393 • Reflective of the nursing process
- 394 • Authenticated; that is, the information is truthful, the author is identified, and
- 395 • nothing has been added or inserted

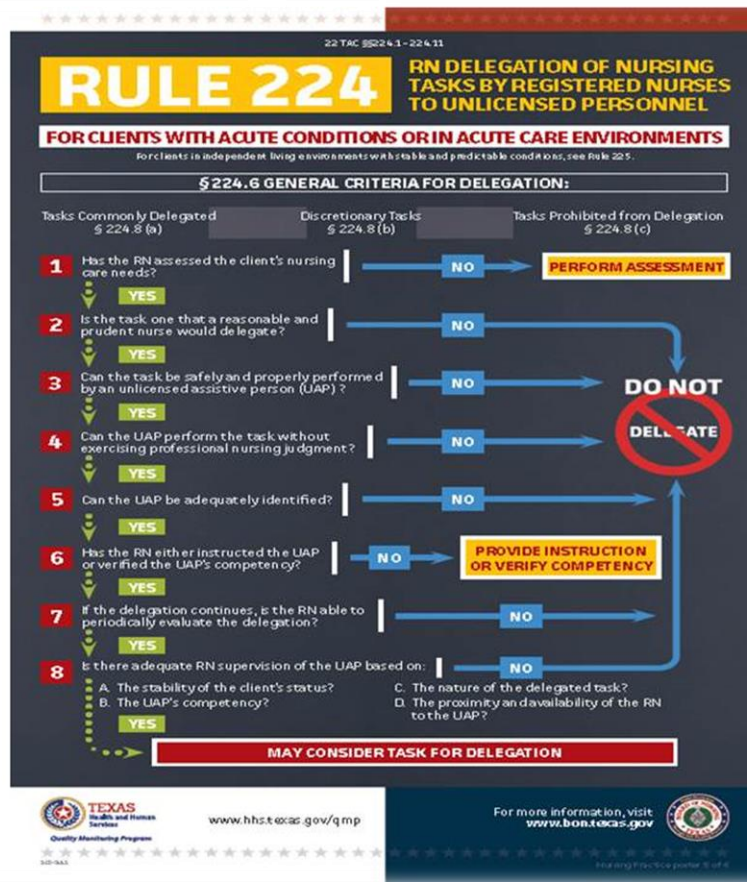
396 *Delegation by Registered Nurses to Unlicensed Assistive Personnel (UAP) (ANA, 2012a)*

397 The following principles provide guidance and inform the registered nurse's decision-making  
398 about delegation:

- 399 • The nursing profession determines the scope and standards of nursing practice
- 400 • The RN takes responsibility and accountability for the provision of nursing practice
- 401 • The RN directs care and determines the appropriate utilization of resources when
- 402 providing care
- 403 • The RN may delegate tasks or elements of care but does not delegate the nursing
- 404 process itself
- 405 • The RN considers facility/agency policies and procedures and the knowledge and
- 406 skills, training, diversity awareness, and experience of any individual to whom the
- 407 RN may delegate elements of care
- 408 • The decision to delegate is based upon the RN's judgment concerning the care
- 409 complexity of the patient, the availability and competence of the individual
- 410 accepting the delegation, and the type and intensity of supervision required
- 411 • The RN acknowledges that delegation involves the relational concept of mutual
- 412 respect
- 413 • Nurse leaders are accountable for establishing systems to assess, monitor, verify,
- 414 and communicate ongoing competence requirements in areas related to delegation
- 415 • The organization/agency is accountable to provide sufficient resources to enable
- 416 appropriate delegation

- 417 • The organization/agency is accountable for ensuring that the RN has access to
- 418 documented competency information for staff to whom the RN is delegating tasks
- 419 • Organizational/agency policies on delegation are developed with the active
- 420 participation of registered nurses

421 An example of a delegation algorithm:



422

423 *Principles Related to the Practice Environment (ANA, 2012b)*

424 Staffing is a structure and process that affects safety of patients, nurses themselves, and

425 others in the environment. Institutions employing a culture of safety must recognize

426 appropriate nurse staffing as integral to achieving goals for patient safety and quality:



- 427 • Registered nurses have a professional obligation to report unsafe conditions or  
428 inappropriate staffing that adversely impacts safe, quality care; and the right to do  
429 so without reprisal.
- 430 • Registered nurses should be provided a professional nursing practice environment in  
431 which they have control over nursing practice and autonomy in their workplace.
- 432 • Appropriate preparation, resources and information should be provided for those  
433 involved at all levels of decision-making. Opportunities must be provided for  
434 individuals to be involved in decision-making related to the practice of nursing.
- 435 • Routine mandatory overtime is an unacceptable solution to achieve appropriate  
436 nurse staffing. Policies on length of shifts; management of uninterrupted periods for  
437 meals and rest; and overtime should be in place to ensure the health and stamina of  
438 nurses and prevent fatigue-related errors.

#### 439 **Principles of Health Information Technology**

440 *ANA's Principles for Health System Transformation (ANA, 2016)*

441 For decades, ANA has been advocating for healthcare reforms that would guarantee access to  
442 high-quality healthcare for all. With the passage of the Patient Protection and Affordable Care  
443 Act (PPACA), millions of people have greater protection against losing or being denied health  
444 insurance coverage, and better access to primary and preventive services. In 2016, ANA  
445 developed Principles for Health System Transformation, to include:

- 446 • Ensure universal access to a standard package of essential healthcare services for all  
447 citizens and residents.
- 448 • Optimize primary, community-based and preventive services while supporting the cost-  
449 effective use of innovative, technology-driven, acute, hospital-based services.
- 450 • Encourage mechanisms to stimulate cost-effective use of healthcare services while  
451 supporting those who do not have the means to share in costs.
- 452 • Ensure a sufficient supply of a skilled workforce dedicated to providing high quality  
453 healthcare services.

454 *Healthcare Systems*

455 Documentation systems should be designed to have interoperability across the healthcare  
456 system such that the documentation can be sent to and received by other systems in a useable  
457 format. The documentation interoperability and information transfer includes nursing  
458 documentation. To facilitate interoperability and transferability, standardized terminologies  
459 should be utilized to:

- 460 • Describe all aspects of nursing care, including assessment, identification of  
461 problems, nursing diagnoses and interventions, nursing-sensitive outcomes,  
462 evaluation, and recommendations
- 463 • Provide method to accurately document errors (commission, omission, and near  
464 misses) that meet a national standard
- 465 • Ensure nurses (prepared in nurse informatics or similar specialties), at the level of  
466 the healthcare system, in collaboration with regulatory agencies, contribute to the  
467 design and development of data storage and retrieval systems that function in a  
468 timely and efficient manner

469 Determining the right number and type of nursing staff required to meet patient care needs  
470 historically is viewed as the foundation of workforce management systems. From Florence  
471 Nightingale's initial efforts to assign patients to particular wards based on severity of illness to  
472 more focused studies from the 1960's forward, the need for accurate data on patient care  
473 requirements has continued to grow.

474 *Patient Classification and Acuity Systems (ANA, n.d., b)*

475 The term Patient Classification Systems refers to measurement systems in nursing that reflect  
476 actual patient care needs for staffing purposes. The term is also referred to as Acuity Systems,  
477 although the concept of "Acuity" denotes unidimensional illness severity in the medical sense.  
478 A literature review demonstrates that the majority of the nursing community continues to  
479 prefer the more inclusive term Patient Classification to reflect the broader bio-psycho-social-

480 spiritual mandate of nursing. Therefore, for purposes of this discussion, the term Patient  
481 Classification/Acuity System (PCAS) is used. Design Principles for PCAS include the following:

- 482 • Validity and reliability
- 483 • Simplicity and efficiency
- 484 • Objectivity
- 485 • Acceptability
- 486 • Tool Development
- 487 • Nursing Work

488 If a Patient Classification/Acuity tool is valid and being used correctly, the results of the ratings  
489 should be accurate and dependable consistently. Reliability of these systems should be well  
490 established when initially developed or purchased, and the ongoing reliability of patient ratings  
491 should be assessed routinely. When a Patient Classification/Acuity System is under  
492 development, an RN with health information technology expertise in measurement methods  
493 should be involved throughout the tool development, and metrics integrated with the EHR be  
494 evaluated by additional RNs utilizing the system.

## 495 **Conclusion**

496 Despite the concerted efforts at all levels of the nursing profession to address 'staffing' in  
497 relation to nursing care, heightened and more immediate attention is required to assure the  
498 provision of safe, quality nursing care. Appropriate nurse staffing must be considered an asset  
499 to ever-evolving healthcare systems, rather than simply a cost factor. Evidence demonstrates  
500 that nursing care has a direct impact on the overall quality of services received, and that when  
501 registered nurse staffing is optimal, adverse events and costs decline, and overall outcomes  
502 improve. It is imperative that the healthcare paradigm shift towards better health at lower  
503 costs includes an increased emphasis on the importance of appropriate nurse staffing to aid  
504 healing and recovery and to avoid harm and poor outcomes. Nurses make a tremendous  
505 contribution to quality care and successful outcomes: the value of registered nurse staffing  
506 cannot be underestimated. With appropriate staffing, nurses can lead the Triple Aim charge to

507 improve the patient experience of care; improve the health of populations; and reduce the per  
508 capita cost of healthcare, while maximizing a satisfying professional experience.

509

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## Glossary

608 **Accreditation:** A voluntary, self-regulatory process by which governmental,  
609 nongovernmental, or voluntary associations or other statutory bodies grant formal  
610 recognition to programs or institutions that meet stated quality criteria.

611 **Assignment:** The downward or lateral transfer of both the responsibility and accountability of  
612 an activity from one individual to another. The lateral or downward transfer of skill,  
613 knowledge and judgment must be made to an individual. The activity must be within the  
614 individual's scope of practice.

615 **Assignment despite objection:** A registered nurse (RN) receiving an assignment that in her or  
616 his professional judgment places the patients at risk has an obligation to take action. The action  
617 of refusing an assignment requires the immediate completion of a form utilized to provide  
618 documentation that in the professional registered nurse's opinion, the assignment is unsafe  
619 and places the patients at risk.

620 **Benchmarking:** The continual and collaborative discipline of measuring and comparing the  
621 results of key work processes with those of the best performers. It is learning how to adapt best  
622 practices learned through the benchmarking process that promotes breakthrough process  
623 improvements and builds healthier communities.

624 **Code of ethics:** The provisions that make explicit the primary goals, values, and obligations of a  
625 profession. In the United States, professional nurses abide by and adhere to the ANA Code of  
626 Ethics for Nurses.

627 **Competency:** An individual's capability to perform up to defined expectations.

628 **Complexity of care:** A quantification of patient antecedents (including precipitating events,  
629 episode of care, intensity and so forth), volume and transactional issues.

630 **Credentialing:** Processes designating that an entity has met established standards set by an  
631 agent, governmental or non-governmental, that is acknowledged as being qualified to carry out  
632 this responsibility.

633 **Cultural competency:** A process in which the nurse continuously strives to achieve the ability  
634 and availability to effectively work within the cultural context of a client (individual, family,  
635 community).

636 **Delegation:** The transfer of responsibility for the performance of an activity from one individual  
637 to another while retaining accountability for the outcome. Example: the nurse, in delegating an  
638 activity to an unlicensed individual, transfers the responsibility for the performance of the  
639 activity but retains professional accountability for the overall care.



640 **Deployment:** To spread out, utilize or arrange, especially strategically.

641 **Direct care nurse:** The nurse providing care directly to patients, excluding the nurse manager  
642 and nurse executive. Direct care activities can be reflected as partial full-time equivalents  
643 (FTEs).

644 **Electronic health record (EHR):** A longitudinal electronic record of patient health information  
645 and automated and streamlined to the clinician's workflow. An EHR can help generate a  
646 complete record of a clinical patient encounter in any care delivery setting, and thus support  
647 other care-related activities, including evidence-based decision support, quality management,  
648 and outcomes reporting. Such information is generated by one or more encounters.

649 **Evidence-based practice:** A process founded on the collection, interpretation, and integration  
650 of valid, important, and applicable patient-reported, clinician observed, and research-derived  
651 evidence. The best available evidence, moderated by patient circumstances and preferences, is  
652 applied to improve the quality of clinical judgments.

653 **Indirect Patient Care Activities:** Indirect patient care activities are necessary to support  
654 patients and their environment, and only incidentally involve direct patient contact. These  
655 activities assist in providing a clean, efficient and safe patient care milieu and typically  
656 encompass chore services, companion care, housekeeping, transporting, clerical, stocking and  
657 maintenance tasks.

658 **Interdisciplinary:** Reliant on the overlapping skills and knowledge of each team member and  
659 discipline, resulting in synergistic effects where outcomes are enhanced and more  
660 comprehensive than the simple aggregation of the team members' individual efforts.

661 **Interprofessional:** Reliant on the overlapping knowledge, skills, and abilities of each  
662 professional team member. This can drive synergistic effects by which outcomes are enhanced  
663 and become more comprehensive than a simple aggregation of the individual efforts of the  
664 team members.

665 **Intensity:** The amount or degree of service provided to a patient.

666 **Matrix organization:** An organization that uses a multiple command system whereby an  
667 employee may be accountable to a particular manager for overall performance as well as to  
668 one or more leaders of particular projects.

669 **Nurse administrator/executive:** A registered nurse who orchestrates and influences the work  
670 of others in a defined environment, most often healthcare focused, to enhance the shared  
671 vision of an organization or institution. The goals of their efforts are a quality product focused  
672 on safety and the requisite infrastructures that seek to meet the expectations of the nursing  
673 profession, the consumer, and society.

674 **Nursing:** Nursing is the protection, promotion, and optimization of health and abilities,  
675 prevention of illness and injury, alleviation of suffering through the diagnosis and treatment of  
676 human response, and advocacy in the care of individuals, families, communities, and  
677 populations.

678 **Nursing-sensitive indicators:** Those that reflect the structure, process and outcomes of nursing  
679 care. Structure indicators measure aspects of the supply, skill level, and education and  
680 certification of nursing staff. Process indicators measure aspects of nursing care such as  
681 assessment, intervention, and RN job satisfaction. Nursing-sensitive patient outcome indicators  
682 (such as pressure ulcers, falls, and IV infiltrations) are those that improve with a greater  
683 quantity or quality of nursing care.

684 **Organizational context:** Architecture (geographic dispersion of patients, size and layout of  
685 individual patient rooms, arrangement of entire patient care units and so forth); technology  
686 (beepers, cellular phones, computers); same unit or cluster of patients.

687 **Quality (of) care:** The degree to which healthcare services for individuals and populations  
688 increases the probability of desired health outcomes and is consistent with current professional  
689 knowledge of best practice.

690 **Ratio:** The relationship between two counted sets of data, which may have a value of zero or  
691 greater.

692 **Safeguards:** Measures taken to protect an information system and its contents against  
693 unauthorized disclosure, and limit access to authorized users.

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695 **Sufficient:** Enough to meet the needs of a situation or a proposed end.

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697 **Supervision:** The active process of directing, guiding and influencing the outcome of an  
698 individual's performance of an activity. Supervision is generally categorized as on-site (the  
699 nurse being physically present or immediately available while the activity is being performed)  
700 or off-site (the nurse has the ability to provide direction through various means of written  
701 and verbal communications).

702

703 **Telehealth:** The use of electronic information and telecommunications technologies in such  
704 activities as long-distance clinical health care, patient and professional health-related  
705 education, public health, and health administration.

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707 **Transactional:** Related to a corresponding action or activity involving two parties or things that  
708 reciprocally affect or influence each other.

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## Annexes

Principles of Nurse Staffing, 2d Edition (2012):

<https://www.nursingworld.org/~4af4f2/globalassets/docs/ana/ethics/principles-of-nurse--staffing--2nd-edition.pdf>

Principles for Delegation by Registered Nurses to Unlicensed Assistive Personnel (UAP) (2012):

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Joint Statement on Delegation American Nurses Association (ANA) and the National Council of

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