



NIDCAP Nursery Program

NIDCAP Nursery Certification Renewal Application Guide

Overview, Review Process, & Renewal Application Flow Charts

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NIDCAP Nursery Program

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Introduction

Newborn Individualized Developmental Care and Assessment Program (NIDCAP)

NIDCAP¹⁻¹¹ (www.nidcap.org) lends itself to system-based, process-oriented, attuned and responsive support of individualized developmental care for each infant and family currently residing in the nursery. Over the last 20 years a number of randomized controlled trials have established NIDCAP as evidence based,¹²⁻³⁸ and a successful self-monitored and quality-assured training and education framework has been developed by senior NIDCAP professionals under the auspices of the NIDCAP Federation International (NFI). These extensive research and training efforts and activities have made it evident that NIDCAP involves much more than a specific approach to the care of the individual infant. NIDCAP requires changes in the immediate and extended environment and the culture of a nursery. In order to make NIDCAP successful, caregiving processes must change systemically from protocol-driven, crisis oriented intensive care delivery to calm, nurturing, family-centered and relationship-based care that acknowledges the infant as the guide and structurer of care, and the family as the infant's appropriate ecological niche and the infant's primary caregivers and life-long advocates.^{3,5,10,11}

NIDCAP Nursery Program

The NIDCAP Nursery Program³⁹ was developed in order to guide toward and recognize the excellence of a hospital system's commitment to its nursery and to encourage the continued full integration of the principles of NIDCAP. NIDCAP pertains to all aspects of care, which means the care of the infants and families whom the nursery serves; the care, support and education of the staff and professionals who contribute to the nursery's daily functioning; and the care of the nursery's environment. The NIDCAP Nursery Program provides a six step assessment and application process that supports the applicant toward the goal of NFI NIDCAP Nursery Certification. Specific guidance, mentoring and education is offered to all applicants in support of their next steps of growth. The hospital nursery's developmental leadership team and staff are supported from the onset in solidifying their developmental program toward successful NIDCAP Nursery Certification. For more information, please refer to [NIDCAP Nursery Program: A Guide to Preparation, Application and Implementation of NIDCAP Nursery Certification](#).³⁹

The NIDCAP Nursery Certification Renewal Application Process

The NIDCAP Nursery Certification Renewal Application Process (www.nidcap.org) was developed in order to ensure that hospital nurseries, which in the past have received NFI NIDCAP Nursery Certification, continue to maintain and/or grow further in providing a high standard of their NIDCAP nursery environment and their NIDCAP care of infants and their families and of the caregivers and staff, who care for them. This progressive quality assurance practice certifies that NFI-certified NIDCAP nurseries continue to excel in the following ways: 1) They demonstrate the consistent promotion of best short and long term development of all infants and families in their care; 2) They support their professionals and staff in accordance with the principles of assuring best personal and professional development towards relationship-based care implementation; and 3) They provide a dynamic environment for the full integration of expert medical and nursing care that is securely embedded within the active pursuit of mutual respect, caring, nurturance of and collaboration with infants and families, as well as among all professionals and staff members.

The NIDCAP Nursery Certification Renewal Application Process is scheduled for **2, 4, and 6 years** after the nursery's NFI certification as a NIDCAP Nursery. The renewal process varies depending on the number of years elapsed since the original certification. The NIDCAP Nursery Certification Renewal Application Process in Years 2, 4 and 6 is outlined below.

NIDCAP Nursery Certification Renewal Application: YEAR 2

Step 1: The nursery applicant submits to the NIDCAP Nursery Program Director the *NIDCAP Nursery Certification Renewal Application, Year 2*. See the [How to Apply](#) page on NFI website. The application includes the following components:

a. The Identification of Contact and Leadership Professionals

The applicant lists pertinent contact professionals, the Administrative Leadership, Nursery NIDCAP Leaders, and the nursery interdisciplinary developmental care team members.

b. Description of Nursery and Documentation of Unit Changes

The applicant provides a current description of the nursery and documents any changes in the nursery over the course of last two years. This includes description of the hospital's accreditation and licensure; the population served; NIDCAP Training that the nursery staff currently receives and has received in the last two years; and changes within the nursery that may have affected the care of the infants, their families and/or the nursery's staff and professional caregivers, and/or the environment.

c. Assurance of Support

The applicant assures that the nursery leadership and staff across all disciplines are formally committed to the practice of the NIDCAP approach to care. Furthermore the applicant assures that financial resources are available for additional staff members to be trained in the NIDCAP approach to care as well as for continued NIDCAP Nursery Certification maintenance and renewal.

d. Provision of Overall Nursery Self-Reflection and Evaluation

The nursery leadership team evaluates the current developmental status of the nursery including the environment, and the care of the infants, the families and the professionals and staff, who care for them.

Step 2: The NIDCAP Nursery Program Director reviews and evaluates the applicant's submission of the *NIDCAP Nursery Certification Renewal Application: Year 2*

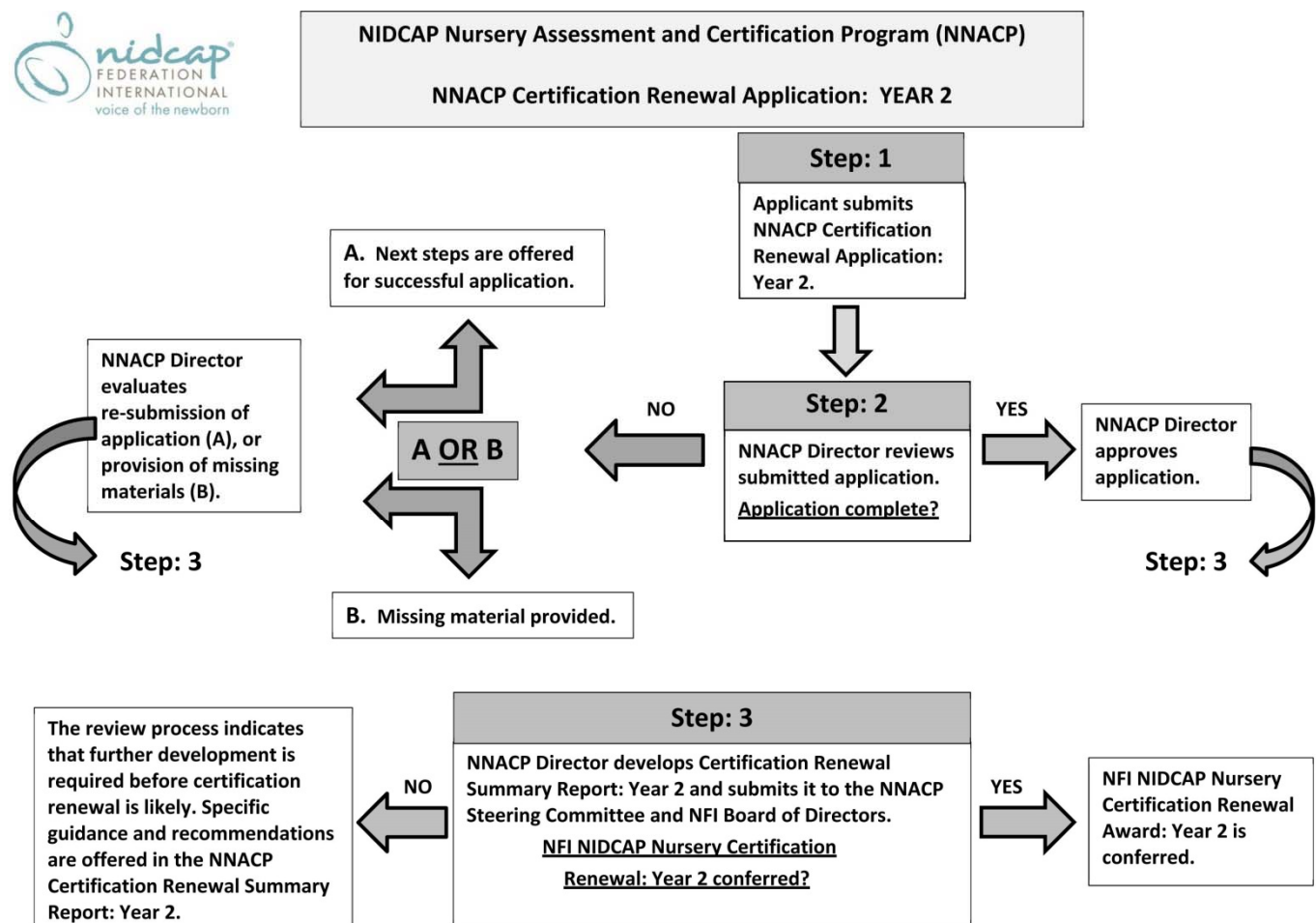
Should the applicant's submission be missing information upon review, the applicant is invited to provide further information. Once the application is complete, the NIDCAP Nursery Director evaluates the application and develops the *NIDCAP Nursery Certification Renewal Summary Report: Year 2*, and shares it with the NIDCAP Nursery Steering Committee and subsequently the NFI Board.

Step 3: Certification Renewal – The NFI Board decides on the ultimate status of the NIDCAP Nursery Certification Renewal Application, Year 2

- a. Should the application, in the Board's judgment, warrant certification renewal, the applicant nursery receives the NIDCAP Nursery Certification Renewal Summary Report and continued certification.

- b. Should the Board's review of the materials submitted indicate that further development is required the NIDCAP Nursery Director, in collaboration with the NIDCAP Nursery Steering Committee will make recommendations to the applicant nursery. These may include further consultation with the site; the offer of education and preparation of the site by attending one of the NIDCAP Nursery workshops; further mentoring from a NIDCAP Trainer; and/or further NIDCAP Training. Specific guidance for the growth of the nursery's developmental program will be offered. The nursery's developmental leadership team will be supported in solidifying their developmental program towards successful NIDCAP Nursery Certification Renewal.

Please see the ***NIDCAP Nursery Certification Renewal Application Flow Chart: Year 2***, for further clarification of the application process.



NIDCAP Nursery Certification Renewal Application: Year 4

Step 1: The applicant submits to the NIDCAP Nursery Director the *NIDCAP Nursery Certification Renewal Application, Year 4*. See the [How to Apply](#) page on NFI website. The application includes the following components:

a. The Identification of Contact and Leadership Professionals

The applicant lists pertinent contact professionals, the Administrative Leadership, Nursery NIDCAP Leaders, and the nursery interdisciplinary developmental care team members.

b. Description of Nursery and Documentation of Unit Changes

The applicant submits detailed information regarding: hospital and nursery unit characteristics; specific leadership structures; hospital/nursery structural and organizational characteristics; developmental care support characteristics; developmental care history and goals; a description of the dynamics of the relationships that currently exist between the NICU staff (e.g., nurse-to-nurse relationships, nurse-to-doctor relationships), between staff and administration; as well as infant/family/staff relationships. The applicant documents changes that have occurred within the nursery that have had an effect upon the care of the infants, the families and/or the professional caregivers and staff who care for them, and/or the environment.

c. Assurance of Support

The applicant assures that the nursery leadership and staff across all disciplines are formally committed to the practice of the NIDCAP approach to care. Furthermore the applicant assures that financial resources are available for additional staff members to be trained in the NIDCAP approach to care as well as for continued NIDCAP Nursery Certification maintenance and renewal.

d. Provision of Overall Nursery Evaluation

The nursery leadership team evaluates the current developmental status of the nursery including the care of the environment, the infants, the families and the professionals and staff, who care for them.

e. Supporting Evidence

The applicant: 1) Rates the nursery in each of the scales of the four categories of the *Nursery Assessment Manual* (i.e., Environment, Infant, Family, Staff); 2) Enters the scores in the *Nursery Assessment Manual Excel Workbook Site Edition*; 3) Generates the *Summary Report of the Self-Rated Nursery Assessment*; and 4) Submits this report with the NIDCAP Nursery Certification Renewal Application: Year 4.

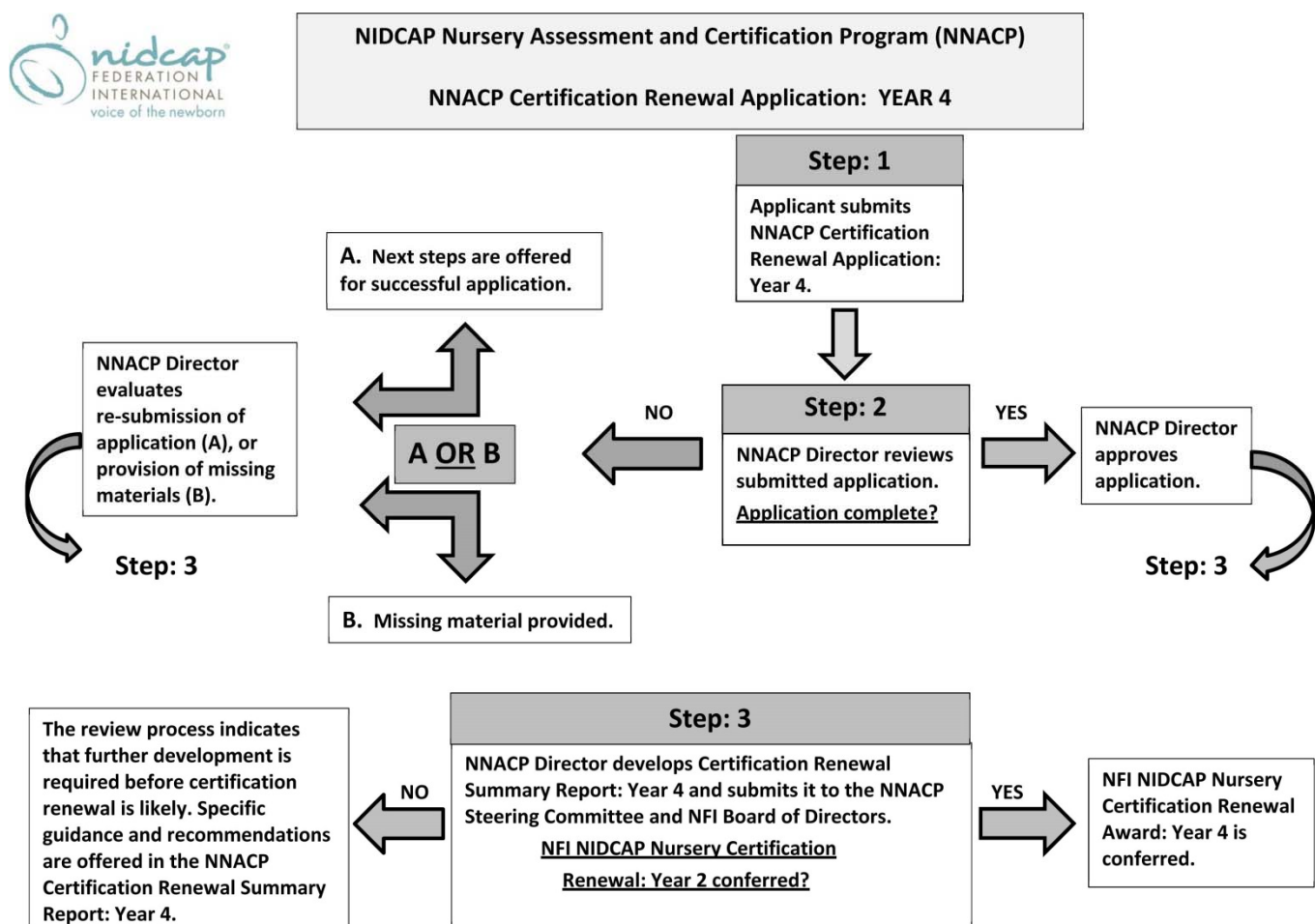
Step 2: The Program Director reviews and evaluates the applicant's submission of the NIDCAP Nursery Certification Renewal Application: Year 4.

Should the applicant's submission be missing information upon review, the applicant is invited to provide further information. Once the application is complete, the Program Director evaluates the application and develops the *NIDCAP Nursery Certification Renewal Summary Report: Year 4*, and shares it with the NIDCAP Nursery Steering Committee and subsequently the NFI Board.

Step 3: Certification Renewal — The NFI Board of Directors decides on the ultimate status of the NIDCAP Nursery Certification Renewal Application, Year 4.

- a. Should the application, in the Board's judgment, warrant certification renewal, the applicant nursery receives the NIDCAP Nursery Certification Renewal Summary Report and continued certification.
- b. Should the Board's review of the materials submitted indicate that further development is required, the Program Director, in collaboration with the Steering Committee will make recommendations to the applicant nursery. These may include further consultation with the site; the offer of education and preparation of the site by attending one of the NIDCAP Nursery Program workshops; further mentoring from a NIDCAP Trainer; and/or further NIDCAP Training. Specific guidance for the growth of the nursery's developmental program will be offered. The nursery's developmental leadership team will be supported in solidifying their developmental program towards successful NIDCAP Nursery Certification Renewal.

For further clarification of this application process, please see the following ***NIDCAP Nursery Certification Renewal Application Flow Chart: Year 4:***



NIDCAP Nursery Certification Renewal Application: Year 6

Step 1: The applicant submits the *NIDCAP Nursery Certification Renewal Application, Year 6*. See the [How to Apply](#) page on NFI website. The application includes the following components:

a. The Identification of Contact and Leadership Professionals

The applicant lists pertinent contact professionals, the Administrative Leadership, Nursery NIDCAP Leaders, and the nursery interdisciplinary developmental care team members.

b. Description of Nursery and Documentation of Unit Changes

The applicant submits detailed information regarding: hospital and nursery unit characteristics; specific leadership structures; hospital/nursery structural and organizational characteristics; developmental care support characteristics; developmental care history and goals; a description of the dynamics of the relationships that currently exist between the NICU staff (e.g., nurse-to-nurse relationships, nurse-to-doctor relationships), between staff and administration; as well as infant/family/staff relationships. The applicant documents changes that have occurred within the nursery that have had an effect upon the care of the infants, the families and/or the professional caregivers and staff who care for them, and/or the environment.

c. Supporting Evidence

The applicant submits:

1) The Summary Report of the Self-Rated Nursery Assessment

The applicant: 1) Rates the nursery in each of the scales of the four categories of the *Nursery Assessment Manual* (i.e., Environment, Infant, Family, Staff); 2) Enters the scores in the *Nursery Assessment Manual Excel Workbook Site Edition*; 3) Generates the *Summary Report of the Self-Rated Nursery Assessment*; and 4) Submits this report with the NIDCAP Nursery Certification Renewal Application: Year 6. This process of self-evaluation serves to identify the nursery's current status in terms of meeting NIDCAP Nursery Certification standards and expectations.

2) The Nursery Assessment Manual: Provision of Evidence

The *Nursery Assessment Manual: Provision of Evidence* offers the applicant the opportunity to demonstrate its implementation of relationship-based, family-centered, developmental care. Should the scale score(s) attained in any of the four categories of the *Nursery Assessment Manual* (i.e., Environment, Infant, Family, and Staff) be rated as a four (4) or five (5) the applicant utilizes the *Nursery Assessment Manual: Provision of Evidence* to corroborate the higher score(s) and submits it according to the instructions found within this document.

3) The Institutional Evidence

The applicant submits six Letters of Support from Hospital and Nursery Leadership (i.e., Nursing Hospital Leadership, Financial Hospital Leadership, Administrative Hospital Leadership for the nursery, Medical Leadership, and Family Leader Representative[s]).

Step 2: The Program Director reviews the applicant's submission of the *NIDCAP Nursery Certification Renewal Application: Year 6*

- a. The applicant is invited to provide any missing information.
- b. Once complete the Program Director sends the application, along with previously submitted materials (i.e., NIDCAP Nursery Certification Renewal Applications: Years 2 and 4; the initial NFI NIDCAP Nursery Certification Award letter; and the Site Reviewers' Nursery Assessment Scale Scores) to the two-member NIDCAP Nursery Site Review Team for their review and evaluation.

Step 3: The Site Review Team reviews and evaluates *NIDCAP Nursery Certification Application: Year 6* and the previously submitted materials.

- a. Should additional information be required, the applicant is invited to provide such.
- b. Once complete and deemed likely to be successful in achieving NIDCAP Nursery Certification Renewal for year six, the Program Director communicates with the applicant and the NIDCAP Nursery Site Reviewers to develop the NIDCAP Nursery Certification Renewal Site Review Schedule (see ***Preparation for NIDCAP Nursery Recertification Site Review***). The schedule addresses the dates and times that particular activities (e.g., observations, interviews, chart reviews, etc.) will be conducted, and specifies the logistics for the site visit).

Step 4: NIDCAP Nursery One-Day Site Review.

- a. ***On-Site Visit*** In the course of this visit, the Site Review Team walks the path through the hospital that families take to their infants' bedsides; observes the nursery environment and various care interactions in progress; reviews unit policies, procedures and guidelines; meets with the hospital and nursery administrative leadership and representatives from the various disciplines active in the nursery; and observes Rounds, the NICU Follow-Up Clinic, etc.
- b. ***Integration of Submitted Applications and Observations: Nursery Assessment Rating.*** The NIDCAP Nursery Site Review Team reviews the information gleaned from the Site Visit and integrates this information with the information gleaned from the application materials already reviewed prior to the visit. The Site Review Team then scores the Nursery Assessment Manual, based upon the Site's submitted written materials and the on-site observations. The scores derived during this process yield ***the Scale Scores by Category; and the Overall Hospital and Nursery Summary Score*** (see ***Nursery Assessment Manual***; www.nidcap.org). In addition, the NIDCAP Nursery Site Review Team summarizes the information and impressions that were gleaned from the site visit, and makes a recommendation as to the success of the nursery's certification renewal application.

Step 5: Certification Renewal – The Site Review Team prepares the NIDCAP Nursery Certification Renewal Summary Report: Year 6. The NFI Board decides on the ultimate status of the NIDCAP Nursery Certification Renewal Application, Year 6.

- a. Should the application, in the Board's judgment, warrant certification renewal, the applicant nursery

receives the NIDCAP Nursery Certification Renewal Summary Report and continued certification.

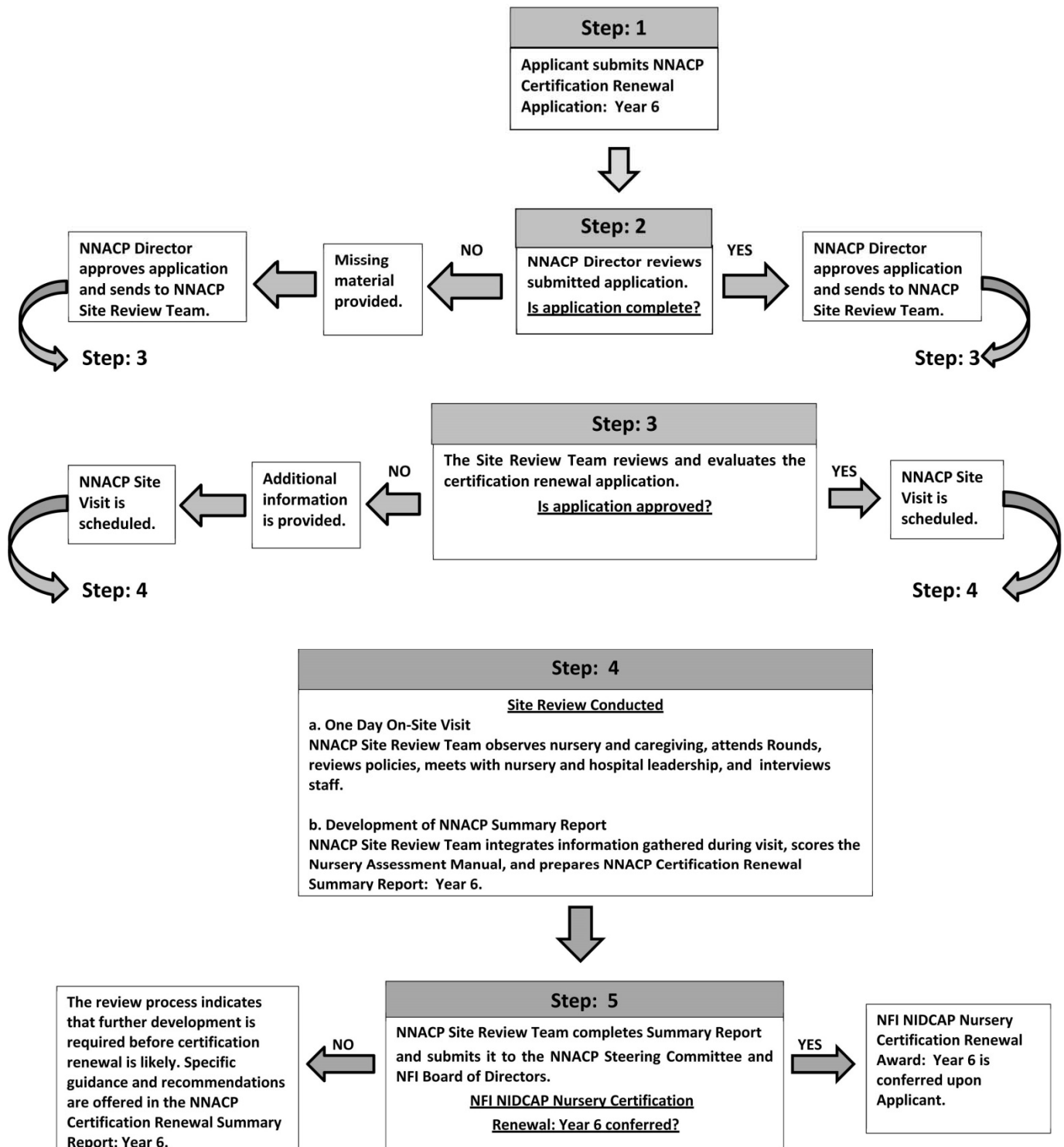
- b. Should the Board's review of the materials submitted indicate that further development is required the NIDCAP Nursery Director, in collaboration with the NIDCAP Nursery Steering Committee will make recommendations to the applicant nursery. These may include further consultation with the site; the offer of education and preparation of the site by attending one of the NIDCAP Nursery workshops; further mentoring from a NIDCAP Trainer; and/or further NIDCAP Training. Specific guidance for the growth of the nursery's developmental program will be offered. The nursery's developmental leadership team will be supported in solidifying their developmental program towards successful NIDCAP Nursery Certification Renewal.

For further clarification of this application process please see the ***NIDCAP Nursery Certification Renewal Application Flow Chart: Year 6*** on the next page.



NIDCAP Nursery Assessment and Certification Program (NNACP)

NNACP Certification Renewal Application: YEAR 6



References

1. Als, H, Lester BM, Brazelton TB. Dynamics of the behavioural organization of the premature infant: A theoretical perspective. In Field TM, Sostek AM, Goldberg S, Shuman HH (eds), *Infants Born at Risk*.1979; 173-192. New York: Spectrum.
2. Als H. Toward a synactive theory of development: Promise for the assessment of infant individuality. *Infant Mental Health Journal* 1982; 3: 229-243.
3. Als H. A synactive model of neonatal behavioral organization: Framework for the assessment and support of the neurobehavioral development of the premature infant and his parents in the environment of the neonatal intensive care unit. In JK Sweeney (ed), *The High-Risk Neonate: Developmental Therapy Perspectives. Physical & Occupational Therapy in Pediatrics*. 1986; 6,3-55.
4. Als H, Lawhon G, Brown E, Gibes R, Duffy FH, McAnulty GB, Blickman JG. Individualized behavioral and environmental care for the VLBW preterm infant at high risk for bronchopulmonary dysplasia: NICU and developmental outcome. *Pediatrics*.1986; 78:1123-1132.
5. Als H. Individualized, family-focused developmental care for the very low birthweight preterm infant in the NICU. In SL Friedman & MD Sigman (eds), *The Psychological Development of Low Birthweight Children*. 1992; 341-388. Norwood, NJ: Ablex Publishing.
6. Als H, Lawhon G, Duffy FH, McAnulty GB, Gibes-Grossman R, &Blickman JG. Individualized developmental care for the very low birthweight preterm infant. Medical and neurofunctional effects. *Journal of the American Medical Association*.1994; 272: 853–858.
7. Als H, Lawhon G, Duffy FH, McAnulty GB, Gibes-Grossman R, &Blickman JG. Individualized developmental care for the very-low-birth-weight infant: medical and neurofunctional effects. *Journal of the American Medical Association*.1994; 272: 853–858.
8. Buehler DM, Als H, Duffy FH, McAnulty GB, &Liederman J. Effectiveness of individualized developmental care for low-risk preterm infants: behavioral and electrophysiological evidence. *Pediatrics*.1995; 96: 923–932.
9. Fleisher BF, VandenBerg KA, Constantinou J, et al. Individualized developmental care for very-low-birth-weight premature infants. *ClinPediatr (Phila)*. 1995; 34: 523–529.
10. Als H, Gilkerson L. The role of relationship-based developmentally supportive newborn intensive care in strengthening outcome of preterm infants. *Seminars in Perinatology*. 1997; 21, 178-189.
11. Als H. Reading the premature infant. In: Goldson E, ed. *Developmental Interventions in the Neonatal Intensive Care Nursery*. New York, NY:Oxford University Press. 1999:18–85.
12. McAnulty G, Duffy F, Butler S, Bernstein J, Zurakowski D, Als H. Effects of the newborn individualized developmental care and assessment program (NIDCAP) at age 8 years: Preliminary data. *Clin Pediatr*. 2010; 49:258-270.
13. McAnulty G, Duffy F, Butler S, Parad R, Ringer S, Zurakowski D, Als H. Individualized developmental care for a large sample of very preterm infants: Health, neurobehavior and neurophysiology. *ActaPaediatr*.2009; 98:1920-1926.
14. Peters K, Rosychuk R, Henderson L, Cote J, McPherson C, Tyebkhan J. Improvement of short- and long-term outcomes for very low birth weight infants: The edmonton NIDCAP trial. *Pediatrics*. 2009 124:1009-1020.
15. Als H, Duffy FH, McAnulty GB, Rivkin MJ, Vajapeyam S, Mulkern RV, Warfield SK, Huppi PS, Butler SC, Conneman K, Fischer C, Eichenwald EC. Early experience alters brain function and structure. *Pediatrics*. 2004; 113(4): 846-857.
16. Als H, Gilkerson L, Duffy FH, et al. A three-center randomized controlled trial of individualized developmental care for very low birth weight preterm infants: medical, neurodevelopmental, parenting and caregiving effects. *Journal of Developmental Behavioral Pediatrics*.2003; 24: 399–408.

17. Westrup B, Böhm B, Lagercrantz H, Stjernqvist K. Preschool outcome in children born very prematurely and cared for according to the newborn individualized development care and assessment program (NIDCAP). In *Developmentally supportive neonatal care: A study of the Newborn Individualized Developmental Care and Assessment Program (NIDCAP) in Swedish settings*. 2003. Stockholm: Repro Print AB;VI:1-21.
18. Kleberg A, Westrup B, Stjernqvist K, & Lagercrantz H. Indication of improved cognitive development at one year of age among infants born very prematurely who received care based on the newborn individualized developmental care and assessment program (NIDCAP®). *Early Human Development*. 2002; 68, 83-91.
19. Kleberg A, Westrup B, Stjernqvist K. Developmental outcome, child behavior and mother-child interaction at 3 years of age following newborn individualized developmental care and intervention program (NIDCAP) intervention. *Early Human Development*. 2000; 60: 123-135.
20. Westrup B, Kleberg A, von Eichwald K, Stjernqvist K, Lagercrantz H. A randomized controlled trial to evaluate the effects of the newborn individualized developmental care and assessment program in a Swedish setting. *Pediatrics*. 2000; 105(1): 66-72.
21. Buehler DM, Als H, Duffy FH, McAnulty GB, Liederman J. Effectiveness of individualized developmental care for low risk preterm infants: Behavioral and electrophysiological evidence. *Pediatrics*. 1995; 96, 923-932.
22. Fleisher BF, VandenBerg KA, Constantinou J, et al. Individualized developmental care for very-low-birthweight premature infants. *Clinical Pediatrics*. 1995; 34: 523-529.
23. Als H, Lawhon g, Duffy FH, McAnulty GB, Gibes-Grossman R, & Blickman JG. Individualized developmental care for the very-low-birth-weight infant: medical and neurofunctional effects. *Journal of the American Medical Association*. 1994; 272: 853-858.
24. Becker PT, Grunwald PC, Moorman J, Stuhr S. Effects of developmental care on behavioral organization in very-low-birthweight infants. *Nursing Research*. 1993; 42(4), 214-220.
25. Parker S, Zahr L, Cole JG, Brecht M. Outcome after developmental intervention in the neonatal intensive care unit for mothers of preterm infants with low socioeconomic status. *Journal of Pediatrics*. 1992; 120, 780-785.
26. Becker PT, Grunwald PC, Moorman J, Stuhr S. Outcomes of developmentally supportive nursing care for very-low birth-weight infants. *Nursing Research*. 1991; 40:150-155.
27. Als H, Lawhon g, Brown E, Gibes R, Duffy FH, McAnulty GB, Blickman JG. Individualized behavioral and environmental care for the VLBW preterm infant at high risk for bronchopulmonary dysplasia: NICU and developmental outcome. *Pediatrics*. 1986; 78:1123-1132.
28. Kleberg A, Westrup B, Stjernqvist K, & Lagercrantz H. Indications of improved cognitive development at one year of age among infants born very prematurely who received care based on the Newborn Individualized Developmental Care and Assessment Program (NIDCAP). *Early Human Development*. 2002; 68: 83-91.
29. Westrup B, Kleberg A, von Eichwald K, Stjernqvist K, & Lagercrantz H. A randomized, controlled trial to evaluate the effects of the newborn individualized developmental care and assessment program in a Swedish setting. *Pediatrics*. 2000; 105: 66-72.
30. McAnulty G, Duffy F, Butler S, Bernstein J, Zurakowski D, Als H. Effects of the newborn individualized developmental care and assessment program (NIDCAP) at age 8 years: Preliminary data. *Clin Pediatr*. 2010; 49:258-270.
31. McAnulty G, Duffy F, Butler S, Parad R, Ringer S, Zurakowski D, Als H. Individualized developmental care for a large sample of very preterm infants: Health, neurobehavior and neurophysiology. *Acta Paediatr*. 2009; 98:1920-1926.

32. Peters K, Rosychuk R, Hendson L, Cote J, McPherson C, Tyebkhan J. Improvement of short- and long-term outcomes for very low birth weight infants: The edmonton NIDCAP trial. *Pediatrics*. 2009 124:1009-1020.
33. Als H, Duffy FH, McAnulty GB, Rivkin MJ, Vajapeyam S, Mulkern RV, Warfield SK, Huppi PS, Butler SC, Conneman K, Fischer C, Eichenwald EC. Early experience alters brain function and structure. *Pediatrics*. 2004; 113(4): 846-857.
34. Als H, Gilkerson L, Duffy FH, et al. A three-center randomized controlled trial of individualized developmental care for very low birth weight preterm infants: medical, neurodevelopmental, parenting and caregiving effects. *Journal of Developmental Behavioral Pediatrics*. 2003; 24: 399–408.
35. Westrup B, Böhm B, Lagercrantz H, Stjernqvist K. Preschool outcome in children born very prematurely and cared for according to the newborn individualized development care and assessment program (NIDCAP). In *Developmentally supportive neonatal care: A study of the Newborn Individualized Developmental Care and Assessment Program (NIDCAP) in Swedish settings*. 2003. Stockholm: Repro Print AB;VI:1-21.
36. Kleberg A, Westrup B, Stjernqvist K, & Lagercrantz H. Indication of improved cognitive development at one year of age among infants born very prematurely who received care based on the newborn individualized developmental care and assessment program (NIDCAP®). *Early Human Development*. 2002; 68, 83-91.
37. Kleberg A, Westrup B, Stjernqvist K. Developmental outcome, child behavior and mother-child interaction at 3 years of age following newborn individualized developmental care and intervention program (NIDCAP) intervention. *Early Human Development*. 2000; 60: 123–135.
38. Westrup B, Kleberg A, von Eichwald K, Stjernqvist K, Lagercrantz H. A randomized controlled trial to evaluate the effects of the newborn individualized developmental care and assessment program in a Swedish setting. *Pediatrics*. 2000; 105(1): 66–72.
39. Als H. *NIDCAP Nursery Assessment and Certification Program*. 2006. Boston, Mass: NIDCAP Federation International, Inc. Smith K, Buehler D, Hedlund R, Kosta S, & Als H. *NIDCAP Nursery Assessment and Certification Program (NIDCAP Nursery): A Guide to Preparation, Application and Implementation of NIDCAP Nursery Certification*. July, 2011. Boston, Massachusetts: NIDCAP Federation International, Inc.
40. Smith K, Buehler D, & Als H. *NIDCAP Nursery Assessment and Certification Program Nursery Assessment Manual* 2015. Boston, Mass: NIDCAP Federation International, Inc.