Clinical Policy: NICU Discharge Guidelines
Reference Number: CP.MP.81
Last Review Date: 06/19

See Important Reminder at the end of this policy for important regulatory and legal information.

Description
Infants who require neonatal admission remain at increased risk for morbidity and mortality following discharge. These infants require comprehensive discharge planning to ensure a smooth transition from the neonatal intensive care unit (NICU) and reduce morbidity and mortality after discharge.

Policy/Criteria
It is the policy of health plans affiliated with Centene Corporation® that infants are considered medically ready for discharge if the following physiologic competencies in I-V are met, or for a lower level of care if the authorization protocol in VI are met:

I. Sufficient nutrition to support appropriate growth, both of the following:
   A. Adequate pattern of weight gain, one of the following:
      1. Preterm infants or term infants > 1 week of age demonstrate a consistent pattern of weight gain (typically about 3 days) via the current nutritional route;
      2. ≤ 7% of birth weight lost in term infants < 1 week of age.
   B. The nutritional product, enteric or intravenous, is appropriate for the nutritional needs of the infant and one of the following:
      1. The infant is on full oral nutrition;
      2. Home management of specialized nutrition needs, all of the following:
         a. Caregiver and provider agree to home management;
         b. Consultations (e.g. gastroenterology and nutrition) completed;
         c. Appropriate feeding evaluation, family assessment and therapeutic interventions completed;
         d. One of the following:
            i. Gavage feeding for an infant who cannot feed well enough orally and for whom feeding is the last issue requiring continued hospitalization;
            ii. Long-term gastrostomy tube feedings for infants with minimal or no ability to feed orally, or the expectation of such. Note: Gastrostomy tube placement may be prior to NICU discharge or after a short-term trial of nasogastric (NG)/oral feeds at home;
            iii. Intravenous (IV) total parenteral nutrition (TPN) as a nutritional source:
               a) Infant has an inadequate ability to absorb calories (short gut);
               b) Fluid and electrolyte requirements have stabilized, as documented by the physician.

II. Ability to maintain normal body temperature in a home environment
    A. Infant demonstrates the ability to maintain normal body temperature (>36.4 C axillary) while clothed in an open bed/crib with normal ambient temperature (23.9 to 25º C).
Note: Weaning from an isolette should be considered when an infant in a stable cardiopulmonary state reaches >1600 grams and is able to be swaddled.\textsuperscript{17,18}

III. Mature respiratory control, one of the following:
A. Infant is stable on room air;\textsuperscript{4,12-16}
B. Infant is stable but has ongoing respiratory needs requiring additional support, all of the following:
   1. Caregiver and physician agree to home management;
   2. Appropriate consultations and home equipment arrangements made;
   3. Infant has one or more of the following conditions:
      a. Bronchopulmonary dysplasia (BPD) and on low flow nasal cannula at any oxygen concentration with a flow rate of \( \leq 1.0 \text{ LPM} \) (liters per minute);
      b. Tracheostomy and requires positive pressure ventilation:
         i. Ventilator settings are stable and fraction of inspired \( O_2 \) is \( \leq 40\% \) utilizing a home ventilator;
         ii. Home nursing support is arranged;
      c. Ongoing medical conditions that increase risk for apnea, airway obstruction, or hypoxia and both of the following:
         i. Assessment completed to determine which type of home monitoring system is appropriate (pulse oximetry monitor, cardiorespiratory monitor);
         ii. Caregiver training in infant CPR.

Note: For guidelines for discharge of infants with apnea of prematurity, reference CP.MP.82 NICU Apnea and Bradycardia.

IV. Bilirubin levels are acceptable based on hours of life and risk factors (reference relevant nationally recognized clinical decision support criteria, and/or CP.MP.150 Home Phototherapy).

V. Free of infection, both of the following:
A. No serious infection;
B. Completion of a course of parenteral antibiotics at home, all of the following:
   1. The patient is otherwise clinically well (asymptomatic);
   2. The caregiver and physician agree to home antibiotics;

Note: Reference CP.MP.85 Neonatal Sepsis Management Guidelines.

VI. Authorization Protocol
A. As an infant stabilizes, a lower level of care is appropriate for addressing medical needs.
   If there are no significant medical issues necessitating continued stay in Level I, II, III or IV nursery, the transitional care nursery level should be approved for the following:
   1. Completion of an approved duration of antibiotic treatment (Please reference CP.MP.85 Neonatal Sepsis Management Guidelines);
   2. Weaning of \( O_2 \) for a BPD patient or periodic \( O_2 \) needed for a patient that is progressing toward discharge on room air, as supported by physician documentation;
3. Tube feeding < 50% of daily caloric requirement and progressing toward discharge on all oral feedings as supported by physician documentation;  
   \textit{Note:} Short term home NG feedings should be considered particularly when the infant is term or near term gestation.
4. Apnea or bradycardia monitoring with a new significant episode in the last 5 days and not planning to go home on a monitor (reference CP.MP.82 NICU Apnea Bradycardia Guidelines);


B. Review for Level I or transitional care nursery days for social reasons such as discharge teaching, awaiting foster placement, inappropriate maternal behavior/poor bonding, unsafe home environment or maternal lengthened postpartum course, illness or disability must be sent to the medical director for review. These days may be denied as \textbf{not medically necessary} if Benefit Plan Contract does not include coverage for social days as medically necessary.

\textit{Note:} Parent discharge teaching and rooming in should be completed coincidentally with the achievement of medical stability and not after achieving medical stability.

\textbf{NICU Discharge Recommended Practices}

\textbf{A. Verify before discharge all of the following:}
1. The home/foster care environment is deemed safe and accessible;
2. The parent or caregiver demonstrates the ability to manage the care of the infant;
3. Follow-up care planned and communicated between caregivers and providers;
4. Medications reconciled;
5. Transportation needs identified and addressed;
6. In cases of foster care placement, case worker contact information should be identified. The case worker should be involved and kept updated regarding discharge plans.

\textbf{B. Screening Tests}
1. State-mandated metabolic screening testing should be completed;
2. Screening for retinopathy of prematurity per AAP guidelines should be performed (or arranged as outpatient) with an ophthalmologist skilled in the evaluation of the retina of the preterm infant, with adequate follow-up for patients with active disease;
3. Hearing screening should be completed prior to discharge with follow-up plans for infants requiring a full audiology assessment;
4. An assessment of cardiorespiratory stability in a car seat is recommended prior to discharge for infants born at < 37 weeks gestation or with other risk factors for respiratory compromise (e.g. neuromuscular, orthopedic problems).

\textbf{C. Immunizations}
1. Infants should receive appropriate immunizations per CDC guidelines before discharge (or arranged as an outpatient) based on their post-natal age;
2. Specialized immunizations, when indicated (e.g. respiratory syncytial virus prophylaxis) should be administered prior to discharge;
3. Every effort should be made to assure that parents and caretakers have been immunized against pertussis with the TDaP vaccine;
D. All parents should be encouraged to attend infant CPR class.

Background:

_Nutritional competency_

Weight itself should not be a criterion for discharge. Early hospital discharge is safe and feasible for very-low-birth-weight infants when behavioral and parental criteria, rather than achieved weight, serve as discharge indicators. Term infants often have a 5-7% weight loss in the first week of life with an expectation that they will be back to birth weight by 10-14 days of age.

Respiratory Control

Preterm infants typically demonstrate mature respiratory control by 36-37 weeks post gestational age. Occasionally maturation of respiratory control can be delayed to up to 44 weeks.

Home oxygen therapy for infants with bronchopulmonary dysplasia has been used safely to achieve earlier hospital discharge. According to the Canadian pediatric society, some infants with prolonged oxygen dependency may be candidates for home oxygen therapy. In making decisions about home oxygen, each family’s needs should be considered individually, balancing the burden of prolonged hospitalization with the impact of caring for an infant on home oxygen.

Cardiorespiratory monitoring is indicated when an infant has an ongoing medical condition that increases risk for apnea, airway obstruction, or hypoxemia. Examples of conditions requiring home cardiorespiratory monitoring include, but are not limited to, the following:

- Pharmacological treatment of respiratory immaturity or continued apnea at term or near-term gestation (apnea of prematurity or apnea of infancy)
- Chronic lung disease (eg, bronchopulmonary dysplasia), especially those requiring supplemental oxygen, positive airway pressure, or mechanical ventilatory support
- Congenital myasthenic syndromes
- Tracheostomy or other airway abnormalities.

## Reviews, Revisions, and Approvals

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<tr>
<th>Description</th>
<th>Date</th>
<th>Approval Date</th>
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<tr>
<td>Policy developed and reviewed by Neonatologist</td>
<td>04/13</td>
<td>06/13</td>
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<tr>
<td>Updated to clarify language for social day approval/denial</td>
<td>09/13</td>
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<tr>
<td>Updated authorization protocol to reflect 2014 Interqual language</td>
<td>07/14</td>
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<td>Updated references in policy to appropriate policy numbers</td>
<td>09/14</td>
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<td>Section III.B.2 updated vent settings to FIO2 requirement only per Specialist review</td>
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<td>Reviewed by Neonatologist</td>
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<td>Converted into new template</td>
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<td>Removed ‘appropriate to authorize days’, and changed Interqual to nationally recognized support tool in Authorization Protocol section</td>
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IIA: Changed degrees in Fahrenheit to degrees in Celsius. III.B.2: changed fraction of inhaled oxygen to ≤ 40%. IV.A.2. added that the ROP screening be conducted by an ophthalmologist skilled in evaluation of the preterm infant.

| References reviewed and updated. | 09/17 | 09/17 |
| References reviewed and updated. | 08/18 | 08/18 |
| Restructured policy. Removed criteria regarding education, home evaluation, equipment, etc. from home TPN section, as this would be contained in the “home safe and accessible” and “follow up care planned” criteria in the “recommendations” section. Removed “support and training” criteria in nutrition section as it is contained in general discharge guidelines. Moved examples of conditions requiring cardiorespiratory monitor to the background. Changed informational note that home nursing support will usually be needed for home ventilation to criteria requiring its arrangement. Moved informational/descriptive information to background. Added to home nutrition and home respiratory needs sections that caregiver and provider agree to home management and removed “may be considered” language. Moved home antibiotic infusion criteria from authorization protocol to physiologic competency section. Moved recommendations to recommendations section. Added the following general discharge recommendations: follow-up care planned, medication reconciled, transportation needs identified and addressed. | 06/19 | 06/19 |

References


**Important Reminder**

This clinical policy has been developed by appropriately experienced and licensed health care professionals based on a review and consideration of currently available generally accepted standards of medical practice; peer-reviewed medical literature; government agency/program approval status; evidence-based guidelines and positions of leading national health professional organizations; views of physicians practicing in relevant clinical areas affected by this clinical policy; and other available clinical information. The Health Plan makes no representations and accepts no liability with respect to the content of any external information used or relied upon in developing this clinical policy. This clinical policy is consistent with standards of medical practice current at the time that this clinical policy was approved. “Health Plan” means a health plan that has adopted this clinical policy and that is operated or administered, in whole or in part, by Centene Management Company, LLC, or any of such health plan’s affiliates, as applicable.
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Note: For Medicaid members, when state Medicaid coverage provisions conflict with the coverage provisions in this clinical policy, state Medicaid coverage provisions take precedence. Please refer to the state Medicaid manual for any coverage provisions pertaining to this clinical policy.

Note: For Medicare members, to ensure consistency with the Medicare National Coverage Determinations (NCD) and Local Coverage Determinations (LCD), all applicable NCDs, LCDs, and Medicare Coverage Articles should be reviewed prior to applying the criteria set forth in this clinical policy. Refer to the CMS website at http://www.cms.gov for additional information.

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