

## West Virginia Perinatal Partnership

### Minimum Criteria for Level II Perinatal Facilities, Programs and services

**Definition and Functions of Level II Perinatal Facilities:**

**Level II:** Level II institutions provide Level I services as well as specialty services for selected at-risk patients. A broader spectrum of other specialty care and services is available. Some obstetric and newborn patients with severe or unusual complications may, with consultation, require transfer to other institutions for more specialized care and services.

**Level IIA:** Resuscitate and stabilize preterm or ill infants prior to transfer to a facility that can provide appropriate level of neonatal care. Provide care for infants greater than or equal to 32 weeks and greater than or equal to 1500 gms. Provide care for infants convalescing after intensive care.

**Level IIB:** Level IIA capabilities and the additional capability to provide mechanical ventilation for brief periods (less than 24 hours) or continuous positive airway pressure.

| <b>Obstetric Staffing</b>  | <b>Level IIA</b>                               | <b>Level IIB</b>                               | <b>My Facility</b> |
|--|--|--|--------------------|
| <b>I. Obstetrical-Fetal Staffing Components</b>                      | <b>≥ 32 0/7 weeks</b><br><b>≥ 1500 grams</b>   | <b>≥ 32 0/7 weeks</b><br><b>≥ 1500 grams</b>   |                    |
| <b>a. Physician Staff</b>  |  |  |                    |
| 1. Physician responsible for unit administration                     | Board Certified/Eligible Obstetrician Required | Board Certified/Eligible Obstetrician Required |                    |
| <b>b. Other physician on staff</b>                                   |  |  |                    |
| 1. General Surgeon   | Required                                       | Required                                       |                    |
| 2. Neurosurgeon  | Recommended                                    | Recommended                                    |                    |
| 3. Neurologist   | Recommended                                    | Recommended                                    |                    |
| 4. Orthopedic surgeon  | Recommended                                    | Recommended                                    |                    |
| 5. Urologist   | Recommended                                    | Recommended                                    |                    |
| 6. Otolaryngologist  | Recommended                                    | Recommended                                    |                    |
| 7. Cardiologist  | Recommended                                    | Recommended                                    |                    |
| 8. Geneticist  | Recommended                                    | Recommended                                    |                    |
| 9. Internist   | Required                                       | Required                                       |                    |
| 10. Anesthesiologist with interest/expertise in obstetric anesthesia | Highly Recommended                             | Highly Recommended                             |                    |
| 11. Pathologist  | Required                                       | Required                                       |                    |
| 12. Radiologist  | Required                                       | Required                                       |                    |
| <b>c. Nursing Staff</b>  |  |  |                    |
| 1. Nurse responsible for unit administration (supervisor). One       | RN, BSN with                                   | RN, BSN with                                   |                    |

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| <b>Obstetric Staffing</b>  | <b>Level IIA</b>  | <b>Level IIB</b>  | <b>My Facility</b>                   |
|--|---|---|--------------------------------------|
| nurse may have responsibility for both obstetrical and neonatal services in some.  | specialty training in Obstetrics Advanced degree highly recommended | specialty training in Obstetrics Advanced degree highly recommended |                                      |
| 2. Nurse/Patient Ratio for Labor and delivery capable of FHR monitoring all shifts |   |   |                                      |
| 1) Uncomplicated Patients  | <b>Refer to Appendix I</b>  | <b>Refer to Appendix I</b>  | <b>Complete Appendix I Worksheet</b> |
| 2) High risk Patients  |   |   |                                      |
| 3) Postpartum patients (Uncomplicated with central nursery)                        |   |   |                                      |
| 4) Uncomplicated with couplet care   |   |   |                                      |
| 5) High risk (antepartum & postpartum care)  |   |   |                                      |
| d. Social Work – Provision of services   | Required  | Required  |                                      |
| e. Nutrition – Provision of services   | Required (RD)   | Required (RD)   |                                      |

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| <b>Obstetric Capabilities and Services</b>  | <b>Level IIA</b>                       | <b>Level IIB</b>                       | <b>My Facility</b> |
|---|--|--|--------------------|
| <b>I. Obstetric- Fetal Service Components</b>   | <b>≥ 32 0/7 weeks<br/>≥ 1500 grams</b> | <b>≥ 32 0/7 weeks<br/>≥ 1500 grams</b> |                    |
| 1. Perinatal care for uncomplicated obstetric and fetal patients  | Required                               | Required                               |                    |
| 2. Manage selected high-risk pregnancies >32 weeks  | Required                               | Required                               |                    |
| 3. Risk assessment of all patients admitted to the obstetric service with an established triage system for identifying high-risk patients who should be transferred to a facility that provides Level III prior to delivery | Required                               | Required                               |                    |
| 4. No <u>elective</u> deliveries prior to 39 weeks without evidence of fetal lung maturity  | Required                               | Required                               |                    |
| 5. Emergency Capability   | Required                               | Required                               |                    |
| a. Provide proper detection and supportive care of unanticipated maternal-fetal problems that occur during labor and delivery   | Required                               | Required                               |                    |
| b. Personnel qualified to manage obstetric and newborn emergencies  | Required                               | Required                               |                    |
| c. At least one Certified NRP person capable of <u>initiating resuscitation</u> in every delivery who can be immediately available to the baby as his/her only responsibility   |  |  |                    |
| d. A person with skills required for performing complete resuscitation, including endotracheal intubation and administration of medications is immediately available for all deliveries.                                    | Required                               | Required                               |                    |
| e. Begin emergency cesarean sections within 30 minutes after the decision to do the operation has been made   | Required                               | Required                               |                    |
| f. Provide transfusions of blood and fresh frozen plasma on a 24-hour basis   | Required                               | Required                               |                    |
| g. Pharmacy services available  | Required                               | Required                               |                    |
| 6. Anesthesia services available  | Recommended In-House 24 H/day          | Recommended In-House 24 H/day          |                    |
| 7. Radiology services (technician)  | Recommended In-House 24 H/day          | Recommended In-House 24 H/day          |                    |
| 8. Clinical laboratory services on a 24-hour basis  | Required In-House 24 H/day             | Required In-House 24 H/day             |                    |
| 9. Continuous electronic fetal heart-rate monitoring capability   | Required                               | Required                               |                    |

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| <b>Obstetric Capabilities and Services</b>                 | <b>Level IIA</b>    | <b>Level IIB</b>    | <b>My Facility</b>            |
|--|---------------------|---------------------|-------------------------------|
| 10. Other medical services                                 |                     |                     |                               |
| a. General Surgery   | Required            | Required            |                               |
| b. Thoracic Surgery  | Recommended         | Recommended         |                               |
| c. Neurosurgery  | Recommended         | Recommended         |                               |
| d. Orthopedic Surgery                                      | Recommended         | Recommended         |                               |
| e. Urology   | Recommended         | Recommended         |                               |
| f. Otolaryngology  | Recommended         | Recommended         |                               |
| g. Cardiology  | Recommended         | Recommended         |                               |
| h. Genetics  | Recommended         | Recommended         |                               |
| i. Internal Medicine                                       | Recommended         | Recommended         |                               |
| j. Pathology   | Required            | Required            |                               |
| k. Infection control                                       | Required            | Required            |                               |
| l. Radiology   | Required            | Required            |                               |
| 11. Other services available for Obstetric Patients        |                     |                     |                               |
| a. Respiratory Therapy                                     | Required            | Required            |                               |
| b. Laboratory Services                                     | Refer to Appendix 2 | Refer to Appendix 2 | Complete Appendix 2 Worksheet |
| c. Lactation support services                              | Required            | Required            |                               |
| d. Diagnostic and evaluative techniques                    | Required            | Required            |                               |
| i. Antenatal fetal testing (NST, OCT, Biophysical Profile) | Required            | Required            |                               |
| ii. Antenatal fetal lung maturity evaluations              | Required            | Required            |                               |
| iii. X-Ray   | Required            | Required            |                               |
| iv. Diagnostic Ultrasound                                  | Required            | Required            |                               |

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| <b>Obstetric Written<br/>Protocols/Policies/Procedures/Quality<br/>Improvement</b>  | <b>Level IIA</b> | <b>Level IIB</b> | <b>My Facility</b> |
|---|------------------|------------------|--------------------|
| <b>I. Obstetrical Components</b>  |                  |                  |                    |
| 1. Criteria for risk assessment   | Required         | Required         |                    |
| 2. Criteria for consult/transport/referral  | Required         | Required         |                    |
| 3. Family-centered culturally sensitive care  | Required         | Required         |                    |
| 4. Breastfeeding policy includes all of the following <ul style="list-style-type: none"> <li>a. Initiate breastfeeding within the first hour afterbirth.</li> <li>b. Avoid giving infants fluids or solids other than breast milk unless medically necessary.</li> <li>c. Promote 24-hour rooming-in, encouraging the family to recognize and respond to infant’s cues.</li> <li>d. Do not use a pacifier or artificial nipple with infants during the hospital stay.</li> <li>e. Give mothers a telephone number to call for help with breastfeeding.</li> </ul> | Required         | Required         |                    |
| 5. Early discharge arrangement Criteria of practice of allied health professionals (e.g., nurse midwife, nurse practitioner, nurse anesthetist)   | Required         | Required         |                    |
| 6. Criteria for practice credentials and consults for attending physicians  | Required         | Required         |                    |
| 7. Quality Assurance/Clinical Outcomes Review Program   | Required         | Required         |                    |
| 8. Review of <u>elective</u> deliveries prior to 39 weeks without laboratory evidence of fetal lung maturity  | Required         | Required         |                    |
| <b>Data Collection Quality improvement Obstetrical and Neonatal</b>   |                  |                  |                    |
| 1. Perform data collection and retrieval  | Required         | Required         |                    |
| 2. Multi-disciplinary continuous quality improvement programs for improving maternal and neonatal health outcomes.  | Required         | Required         |                    |
| 3. internal perinatal case reviews which include all maternal, fetal, and neonatal deaths, as well as all maternal and neonatal transports  | Required         | Required         |                    |
| 4. multi-disciplinary forums, periodically review the performance of the perinatal program, including trends, all deaths, all transfers, all very low birth weight infants, problem identification Required and solution, issues  | Required         | Required         |                    |

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| identified from the quality management process, and systems issue |  |  |  |
|---|--|--|--|

**West Virginia Perinatal Partnership**  
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| <b>Obstetric Equipment</b>   | <b>Level IIA</b> | <b>Level IIB</b> | <b>My Facility</b> |
|--|------------------|------------------|--------------------|
| <b>1. Obstetrical-Fetal Equipment Components</b>   |                  |                  |                    |
| <p><b>Comprehensive obstetric and neonatal care can be provided to the low-risk and the high-risk mother, infant and the family in a single room. A homelike, family-centered environment with the capability for providing high-risk care is a key design criterion for both the labor/delivery/recovery (LDR) and labor/delivery/recovery/postpartum (LDRP) rooms. Each room is equipped for all types of delivery except cesarean deliveries or those that may require general anesthesia During the labor, delivery, and recovery phases, care can be provided in an LDR room or can be extended to include the postpartum period in an LDRP room.</b> Nurses providing care in combined units are knowledgeable in antepartum care, labor and delivery, postpartum care, and neonatal care, making the use of staff cost-effective and increasing the continuity and quality of care. (<i>Guidelines for Perinatal Care</i>, Sixth Edition, 2007.).</p> |                  |                  |                    |
| <b>Labor (Labor and delivery rooms may be combined as birthing rooms)</b>  |                  |                  |                    |
| Areas used for women in labor are equipped with the following components:  |                  |                  |                    |
| 1. Adequate space for support persons, personnel, and equipment  | Required         | Required         |                    |
| 2. Adequate ventilation and temperature control  | Required         | Required         |                    |
| 3. A labor or birthing bed   | Required         | Required         |                    |
| 4. A storage area for the patient's clothing and personal belongings   | Required         | Required         |                    |
| 5. Adjustable lighting that is pleasant for the patient and adequate for examinations  | Required         | Required         |                    |
| 6. An emergency signal and an intercommunication system  | Required         | Required         |                    |
| 7. A sphygmomanometer and stethoscope  | Required         | Required         |                    |
| 8. Mechanical infusion equipment   | Required         | Required         |                    |
| 9. Fetal monitoring equipment  | Required         | Required         |                    |
| 10. Oxygen and suction outlets   | Required         | Required         |                    |
| 11. Access to at least one shower for use of labor patients  | Required         | Required         |                    |
| 12. Storage facilities for supplies and equipment  | Required         | Required         |                    |
| <b>Delivery Rooms</b>  |                  |                  |                    |
| 1. Delivery/operating table or birthing bed that allows variation in position for delivery   | Required         | Required         |                    |
| 2. Instrument table and solution basin stand   | Required         | Required         |                    |
| 3. Instruments and equipment for vaginal delivery, repair of laceration, cesarean delivery, and the management of obstetric  | Required         | Required         |                    |

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| <b>Obstetric Equipment</b>  | <b>Level IIA</b>   | <b>Level IIB</b>   | <b>My Facility</b> |
|---|--------------------|--------------------|--------------------|
| emergencies   |                    |                    |                    |
| 4. Solutions and equipment for the intravenous administration of fluids   | Required           | Required           |                    |
| 5. Equipment for administration of all types of anesthesia, including equipment for emergency resuscitation of the mother | Required           | Required           |                    |
| 6. Individual oxygen, air, and suction outlets for mother and neonate   | Required           | Required           |                    |
| 7. An emergency call system   | Required           | Required           |                    |
| 8. Mirrors for patients to observe the birth  | Recommended        | Recommended        |                    |
| 9. Wall clock with a second hand  | Required           | Required           |                    |
| 10. Equipment for fetal heart rate monitoring   | Required           | Required           |                    |
| 11. Scrub sinks   | Required           | Required           |                    |
| 12. Obstetric ultrasound equipment available to the labor and delivery rooms  | Highly Recommended | Highly Recommended |                    |

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| <b>Staffing</b>   | <b>Level IIA</b>  | <b>Level IIB</b>  | <b>My Facility</b>                   |
|---|---|---|--------------------------------------|
| <b>II. Neonatal Staffing Components</b>   | <b>≥ 32 0/7 weeks</b><br><b>≥ 1500 grams</b>  | <b>≥ 32 0/7 weeks</b><br><b>≥ 1500 grams</b>  |                                      |
| <b>a. Physician Staff Level II Nursery</b>  |   |   |                                      |
| 1. Physician responsible for unit administration  | Board Certified/Eligible<br>Pediatrician  | Board Certified/Eligible<br>Pediatrician  |                                      |
| <b>b. Other physician on staff</b>  |   |   |                                      |
| 1. Board certified and board eligible pediatricians   | Highly Recommended  | Highly Recommended  |                                      |
| 2. Board certified and board eligible family practice   | Highly Recommended  | Highly Recommended  |                                      |
| 3. Pediatric Surgeon  | Recommended   | Recommended   |                                      |
| 4. Pediatric Ophthalmologist  | Recommended   | Recommended   |                                      |
| 5. Pediatric Cardiologist   | Recommended   | Recommended   |                                      |
| 6. Pediatric Anesthesiologist   | Recommended   | Recommended   |                                      |
| 7. Pathologist  | Required  | Required  |                                      |
| 8. Radiologist  | Required  | Required  |                                      |
| <b>c. Nursing Staff</b>   |   |   |                                      |
| 1. Nurse responsible for unit administration (supervisor).<br>One nurse may have responsibility for both Level II nursery and obstetrics. | RN with advanced degree and/or specialized education/experience in neonatal care highly recommended | RN with advanced degree and/or specialized education/experience in neonatal care highly recommended |                                      |
| 2. Staff Nurses   | Demonstrated and documented competency in the care of well and sick newborns required               | Demonstrated and documented competency in the care of well and sick newborns required               |                                      |
| <b>3. Staff per shift</b>   |   |   |                                      |
| 1) Critical Infants (every shift)   | <b>Refer to Appendix I</b>  | <b>Refer to Appendix I</b>  | <b>Complete Appendix I Worksheet</b> |
| 2) Intermediate care infants (every shift)  |   |   |                                      |
| 3) Convalescent infants (every shift)   |   |   |                                      |
| 4) Transitional care infants (every shift)  |   |   |                                      |
| d. Social Work – Provision of services  | Required  | Required  |                                      |
| e. Nutrition – Provision of services  | Required (RD)   | Required (RD)   |                                      |

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| <b>Neonatal Capabilities and Services</b>  | <b>Level IIA</b>                             | <b>Level IIB</b>                             | <b>My Facility</b> |
|--|--|--|--------------------|
| <b>II. Neonatal Services Components</b>  | <b>≥ 32 0/7 weeks</b><br><b>≥ 1500 grams</b> | <b>≥ 32 0/7 weeks</b><br><b>≥ 1500 grams</b> |                    |
| 1. Neonatal care for uncomplicated newborns  | Required                                     | Required                                     |                    |
| 2. Manage mildly ill newborns with problems which are expected to resolve rapidly:   | Required                                     | Required                                     |                    |
| a. physiologic immaturity such as apnea of prematurity, inability to maintain body temperature, or inability to take oral feedings   | Required                                     | Required                                     |                    |
| b. moderately ill with problems that are anticipated to resolve rapidly and are not anticipated to need subspecialty services on an urgent basis                                     | Required                                     | Required                                     |                    |
| 3. Provide care for infants who are convalescing after intensive care  | Required                                     | Required                                     |                    |
| 4. Manage recovering neonates who can be appropriately transferred from the referral center  | Required                                     | Required                                     |                    |
| 5. Transitional Newborn Care   | Required                                     | Required                                     |                    |
| 6. Parent education program  | Required                                     | Required                                     |                    |
| 7. Emergency Capability  | Required                                     | Required                                     |                    |
| a. Neonatal resuscitation capability per NRP guidelines  | Required                                     | Required                                     |                    |
| b. Personnel qualified to manage newborn emergencies   | Required                                     | Required                                     |                    |
| c. Certified NRP personnel <u>capable of initiating resuscitation</u> in every delivery who can be immediately available to the baby as his or her only responsibility.              | Required                                     | Required                                     |                    |
| d. A person with skills required to perform complete resuscitation, including endotracheal intubation and administration of medications is immediately available for all deliveries. |  |  |                    |
| e. Ability to stabilize all neonates including unexpectedly small or sick neonates before transfer to a Level III Perinatal Center   | Required                                     | Required                                     |                    |
| f. Arrangement for transport   | Required                                     | Required                                     |                    |
| g. Provide transfusions of blood and fresh frozen plasma on a 24-hour basis  | Required                                     | Required                                     |                    |
| h. Radiology services (technician)   | Required                                     | Required                                     |                    |

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| <b>Neonatal Capabilities and Services</b>   | <b>Level IIA</b>                 | <b>Level IIB</b>   | <b>My Facility</b> |
|---|----------------------------------|--|--------------------|
| i. Clinical laboratory services (technician) on a 24-hour basis   | Required                         | Required   |                    |
| 8. Advanced Neonatal Services   |                                  |  |                    |
| a. Respiratory Therapy Services   | Required                         | Required   |                    |
| b. Conventional Ventilation Support   | Emergency Stabilization Required | Emergency Stabilization Required   |                    |
| c. Short term conventional ventilation  | Not applicable                   | Short-term (<24 hours)<br>Documentation of protocols in place of >24hours including consultation and transfer criteria <b>Required</b> |                    |
| d. Continuous Positive airway pressure  | Not applicable                   | Documentation of protocols in place is required if used  |                    |
| e. During c. and d. In-house qualified practitioner (i.e.: neonatal nurse practitioner) with capability of diagnosing and treating s full range of complications of mechanical ventilation. | Not applicable                   | Required   |                    |
| 9. Evaluate the condition of healthy neonates and their continuing care until discharge   | Required                         | Required   |                    |
| 10. Consult and arrange transfers in conjunction with the pediatrician or neonatologist at the referral center  | Required                         | Required   |                    |
| 11. Have a defined relationship with a Level III Perinatal Center either in West Virginia or a contiguous state   | Required                         | Required   |                    |
| 12. Other medical/neonatal services   |                                  |  |                    |
| a. Pathology  | Required                         | Required   |                    |
| b. Radiology  | Required                         | Required   |                    |
| c. General Surgery  | Recommended                      | Recommended  |                    |
| d. Cardiology   | Recommended                      | Recommended  |                    |
| e. Ophthalmology  | Recommended                      | Recommended  |                    |

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| <b>Neonatal Written<br/>Protocols/Policies/Procedures/Quality<br/>Improvement</b>   | <b>Level IIA</b> | <b>Level IIB</b> | <b>My Facility</b> |
|---|------------------|------------------|--------------------|
| <b>II. Neonatal Components</b>  | Required         | Required         |                    |
| 1. Criteria for risk assessment   | Required         | Required         |                    |
| 2. Criteria for consult/transport/referral  | Required         | Required         |                    |
| 3. Family-centered culturally sensitive care  | Required         | Required         |                    |
| 4. Breastfeeding: Low-risk newborns remain with their mothers until the first breastfeeding is completed. Necessary infant care is completed at mothers' bedsides. Infants delivered by cesarean section are brought to their mothers within an hour of birth or within 30 minutes of completion of surgery if mother is awake. | Required         | Required         |                    |
| 5. Initial evaluation of newborn by physician   | Required         | Required         |                    |
| 6. Stabilization (transitional care) of newborn   | Required         | Required         |                    |
| 7. Ongoing care of newborn  | Required         | Required         |                    |
| 8. Discharge Planning   | Required         | Required         |                    |
| 9. Criteria for practice of allied health professionals (e.g., nurse practitioners)   | Required         | Required         |                    |
| 10. Criteria for practice credentials and consults for attending physicians   | Required         | Required         |                    |
| 11. Infant Abduction Policy   | Required         | Required         |                    |
| <b>Data Collection Quality improvement Obstetrical and Neonatal</b>   |                  |                  |                    |
| 5. Perform data collection and retrieval  | Required         | Required         |                    |
| 6. Multi-disciplinary continuous quality improvement programs for improving maternal and neonatal health outcomes.  | Required         | Required         |                    |
| 7. Internal perinatal case reviews which include all maternal, fetal, and neonatal deaths, as well as all maternal and neonatal transports  | Required         | Required         |                    |
| 8. multi-disciplinary forums, periodically review the performance of the perinatal program, including trends, all deaths, all transfers, all very low birth weight infants, problem identification Required and solution, issues identified from the quality management process, and systems issue                              | Required         | Required         |                    |

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| <b>Neonatal Equipment</b>   | <b>Level IIA</b> | <b>Level IIB</b> | <b>My Facility</b> |
|---|------------------|------------------|--------------------|
| <b>Neonatal Functional Units</b>  |                  |                  |                    |
| <b>Resuscitation/Stabilization</b>  |                  |                  |                    |
| A resuscitation and stabilization bed should be available in the immediate area of delivery for those neonates who require it. Contingent upon their condition, neonates are moved from this area to the nursery for admission and stabilization and/or transfer to a Level III Perinatal Center. | Required         | Required         |                    |
| The resuscitation area contains the following items:  |                  |                  |                    |
| 1. Overhead source of radiant heat that can be regulated based on the infant's temperature - radiant warmers with accommodations for X-ray capabilities are recommended   | Required         | Required         |                    |
| 2. Thin resuscitation/examination mattress that allows access on three sides  | Required         | Required         |                    |
| 3. Wall clock (Apgar timer is beneficial)   | Required         | Required         |                    |
| 4. Equipment and medications as recommended by the Neonatal Resuscitation Program. This includes a laryngoscope with infant-sized blades, endotracheal tubes, and resuscitation bags with masks for full-term and preterm neonates  | Required         | Required         |                    |
| 5. Humidified oxygen, compressed air and suction sources that are separate from those for the mother  | Required         | Required         |                    |
| 6. Equipment for examination, immediate care, and identification of the neonate   | Required         | Required         |                    |
| 7. Umbilical vessel catheter and insertion tray   | Required         | Required         |                    |
| 8. Cardiac monitor  | Required         | Required         |                    |
| 9. Pulse oximeter,  | Required         | Required         |                    |
| 10. Phototherapy unit,  | Required         | Required         |                    |
| 11. Doppler blood pressure for neonates   | Required         | Required         |                    |
| 12. Blood glucose monitor   | Required         | Required         |                    |
| 13. Gavage feeding equipment  | Required         | Required         |                    |