

Crosswalk: 2027 NBRC Content Outline → Updated Equipment List

This table maps major additions or modifications from the 2027 NBRC Respiratory Therapy Examination Detailed Content Outline to corresponding laboratory equipment. It provides a rationale for inclusion and can be used in accreditation or curriculum planning.

NBRC 2027 Content Area / Task	Examples from Outline	Corresponding Equipment Added
Patient Data – Sleep Studies	Polysomnography, CPAP/NPPV titration during sleep, overnight oximetry/CO ₂	Sleep study equipment (PSG), overnight oximetry/CO ₂ monitor
Patient Data – Exercise & Functional Testing	6-minute walk test, exercise oximetry, oxygen titration with exercise	Treadmill or ergometer, SpO ₂ monitor, stopwatch, course markers
Patient Data – Pulmonary Function	Spirometry, DLCO, lung volumes, respiratory muscle strength tests	Body plethysmograph or lung volume system, DLCO system, MIP/MEP manometers
Device Management – Specialty Gases	Delivery of nitric oxide, heliox, epoprostenol	Specialty gas delivery devices and analyzers
Device Management – Noninvasive Monitoring	Pulse oximetry, capnography, transcutaneous monitoring	Capnograph, transcutaneous monitor, advanced oximeters
Device Management – Airway Tools	Video laryngoscope, supraglottic airway, tube exchangers	Video laryngoscope, bougie, airway exchange catheters
Interventions – Airway Clearance	Oscillatory PEP, HFCWO, cough assist	PEP devices, high-frequency chest wall oscillation vest, cough assist unit
Interventions – Inspiratory Muscle Training	Tests of respiratory muscle strength – MIP, MEP, MVV	Inspiratory muscle trainer
Special Procedures – Thoracentesis/Chest Tube	Thoracentesis, chest tube insertion	Thoracentesis trainer kit, chest tube insertion trainer
Special Procedures – Vascular Access &	Insertion of arterial or venous catheter,	Arterial/venous line trainers, hemodynamic

2.18.26

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Monitoring	hemodynamic monitoring	monitoring simulators
Special Procedures – Pediatric/Neonatal	Neonatal resuscitation, pediatric airway management	NRP manikin, neonatal ventilators, pediatric intubation kits
Special Procedures – Home & Rehab	Pulmonary rehabilitation, home care equipment	Pulmonary rehab equipment (treadmill, resistance devices), home O ₂ concentrators, suction units

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