Pediatric Readiness
What you need to know
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- I have no financial Disclosures.
Pillars of Seattle Children’s

STANDARDS FOR PERFUSION PRACTICE

- Standard 1: Development of Institutionally-based Protocols
- Standard 2: Qualification, Competency and Support Staff
- Standard 3: Communication
- Standard 4: Perfusion record
- Standard 5: Checklist
- Standard 6: Safety Devices
- Standard 7: Monitoring
- Standard 8: Anticoagulation
- Standard 9: Gas Exchange

- Standard 10: Blood Flow
- Standard 11: Blood pressure
- Standard 12: Protamine and Cardiotomy Suction
- Standard 13: Blood Management
- Standard 14: Level of Readiness
- Standard 15: Staffing
- Standard 16: Duty hours
- Standard 17: Quality Assurance and Improvement Program
- Standard 18: Maintenance
What you need to know
- Developing Institutional protocols based on AmSECT Standards
- Standards drive disposable choices (kids come in all sizes)
- Case-by-case readiness
- Communication standardization
- ECLS: AmSECT standards on the go
- Quality assurance and improvement

Developing institutional protocols
- In-house published protocols and guidelines
- Reviewed annually
- Online for easy access
- Signed
- Since 1993
Using institutional protocols

- Standardized pump setups
- Readiness and staffing
- Blood management
- Blood gas monitors/analyzers
- NIRS monitors

Standards Drive Disposable Choices

- Cannula 70
- Oxygenators 4
- Multiple sizes of tubing packs
- Hemoconcentrators 3
- MUF circuit 1
Case-by-Case Readiness

- Do the math in advance
- Double check with patient EMR
- Electronic by-pass record
- Time-stamped checklist

Communication Standards

- Communication equals quality care
- WHO Surgical Safety checklist
- National Patient Safety Foundation
- Procedure readiness and communication
ECMO: AmSECT standards

- Pediatric ECLS
- eCPR

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QA and Improvement Drive Innovation

- Teamwork
- Collect data
- Innovation
Pediatric Readiness: What you should know

- Develop usable institutional protocols and practice guidelines for pediatric perfusion and ECLS
- Choose disposables that work for your patients and team
- Use apps or spreadsheets and electronic records for easy and accurate calculations
- Team communication standards prevent errors
- Training and readiness go hand in hand for ECLS
- QA and Improvement drive innovation and excellence

References

- Kevin Charette, Yasutaka, Hirata, Emile Basha, "180 ml and less: Cardiopulmonary bypass techniques to minimize Hemodilution for neonates and small infants", Safe Journal, Sept 2007

Thank You for Listening