10:05-10:20 Electronic Charting – Why do I need it?

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Disclosure

- Employee of Biomedical Simulations, Inc.
- Consulting agreements with Terumo CVS, LivaNova, and University Hospitals Cleveland Medical Center
Electronic charting – Why do I need it?

You need electronic charting to:

✓ be able to reproduce the perfusion procedure in detail\(^1\text{-}^3\)
✓ improve the accuracy and frequency of your recording\(^5\)
✓ free you to concentrate on safety and communication\(^4\)
✓ provide detailed information for quality improvement projects\(^6\)

3. Hayes RS. Computerized Data Acquisition and Data Management for the Open Heart Patient. JECT 1987;19:287-289

Reproduce the CPB procedure in detail

- Answer queries from multi-disciplinary team members
- Capture critical events\(^2\)
- Decrease response time to events\(^2\)
- Legal documentation

Free the perfusionist up to concentrate on safety

- One pediatric study demonstrated an average of 20 minutes of the CCP’s CPB time freed up to perform other duties\(^3\)
- The use of compliance alerts improves CCP response time to critical events\(^2\)
- CCP can focus on communication and attend to other team members\(^1\)\(^\text{-}^3\)


Improve the accuracy of your recording

- There are significant differences between arterial blood pressure recordings between hand records and automated records
- There is higher specificity and sensitivity in charting accuracy with electronic recording versus manual recording
- Dashboards: Intra-op and post-op analysis (AUC)

4. Riley J, Justison G. Perfusion Electronic Record Documentation Using Epic Systems Software. JECT. 2015;47:242-244
Provide information for CQI projects

- QI dashboards automatically generated area under curve (AUC)
- Strive for optimal perfusion: Goal Directed Perfusion
- Link intra-operative events and data to post-op outcomes


To summarize: Electronic charting – Why do I need it?

- More granularity and detail
- Greater accuracy
- Safer, especially with alerts
- Generate QIP dashboards