



Improving Door-to-Needle Time Using Lean Transformation

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Problem/Background

- Early initiation of tPA:
 - Key to improving quality of life
- AHA Target Stroke Phase II goal:
 - DTN ≤ 60 minutes 75% (new 2015)
 - DTN ≤ 45 min. 50% (new 2015)
- Purpose to decrease DTN time

Methods

- Engaged interdisciplinary team to improve DTN process
- Used Lean Transformation techniques

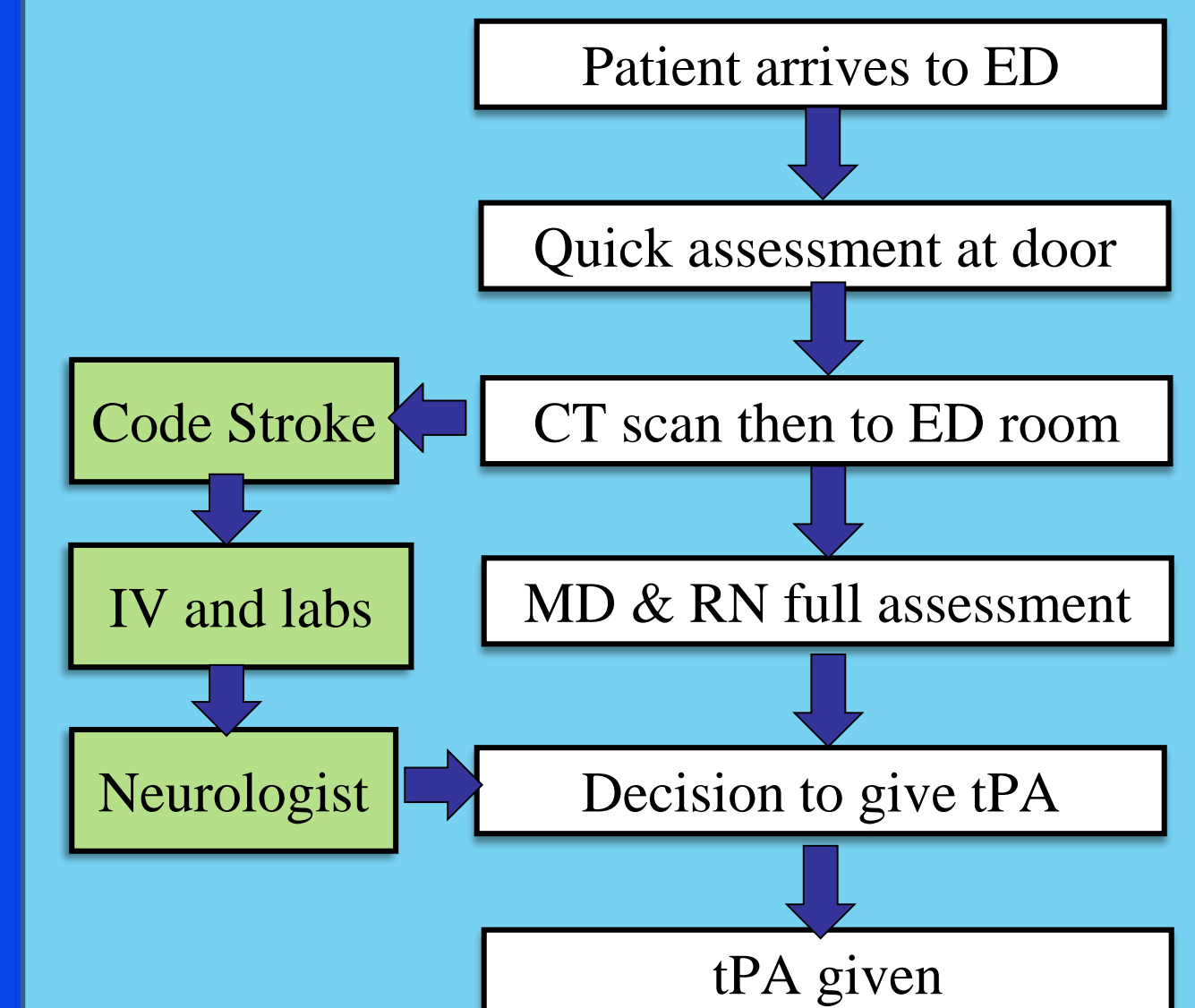
Registration	Lab
Radiology	Pharmacy
Unit secretaries	ED techs
Nurses	Physicians

- Used evidence-based practice and national standards
- Observed current process (Gemba)
- Analyzed current process map to eliminate:
 - Barriers to flow
 - Excessive lead times
 - Non-value added steps
- Defined all roles and responsibilities
- Developed new streamlined process

Results



Stroke Alert



Outcomes

- Significantly reduced DTN times
- Expedited stroke alert process
- Optimized quality of life
- Increased patient satisfaction
- Enhanced team engagement

Contact

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- No unlabeled/unapproved uses of drugs or products
- No financial disclosures