

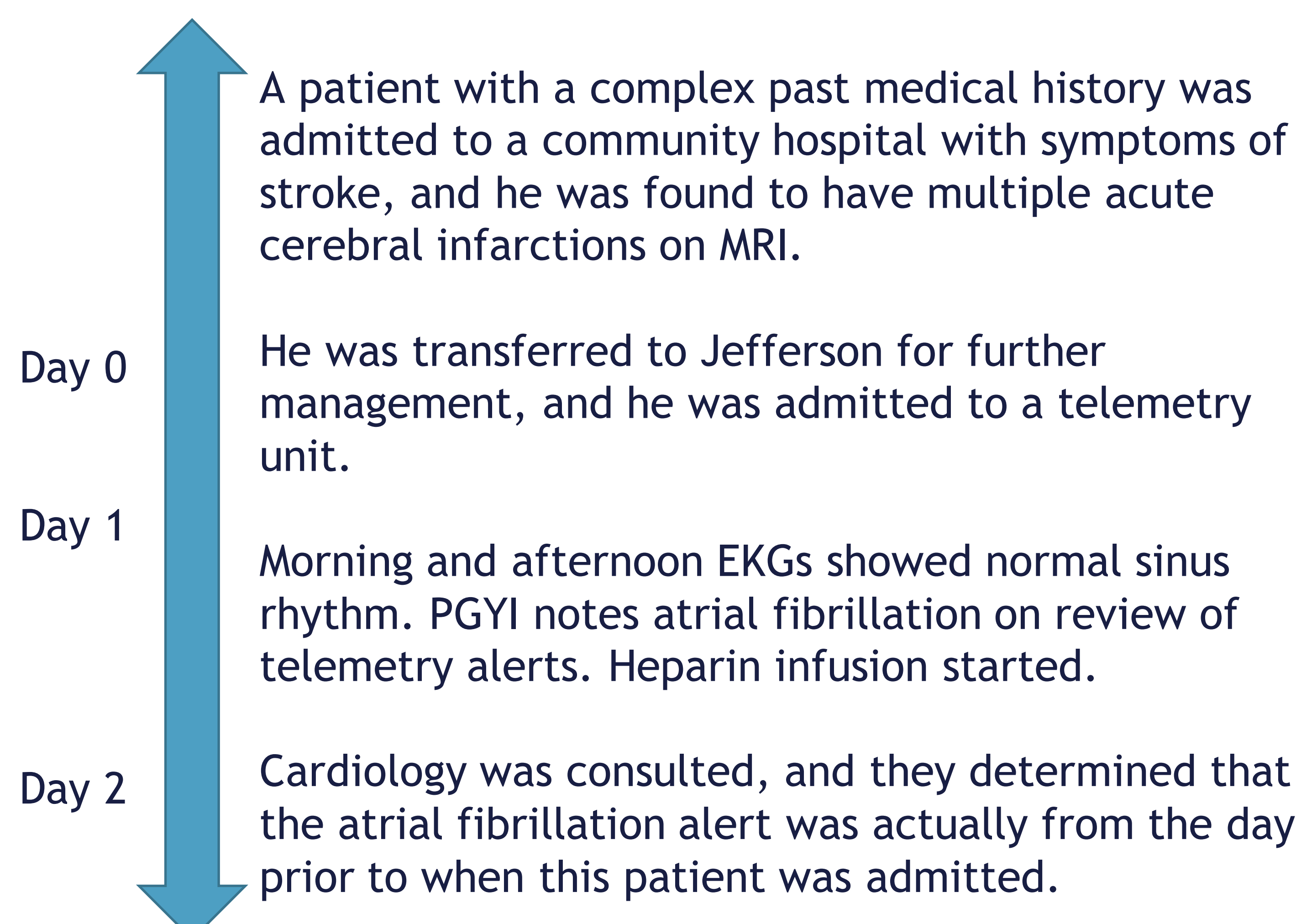
To Fib or Not to Fib: Misdiagnosis of Atrial Fibrillation on Telemetry

Case Presentation and Root Cause Analysis

Brittany Heckel, Sarah Feldman RN, Andrew W. Panakos MD, Loheetha Ragupathi MD, Susannah Eckman, Rebecca Jaffe MD

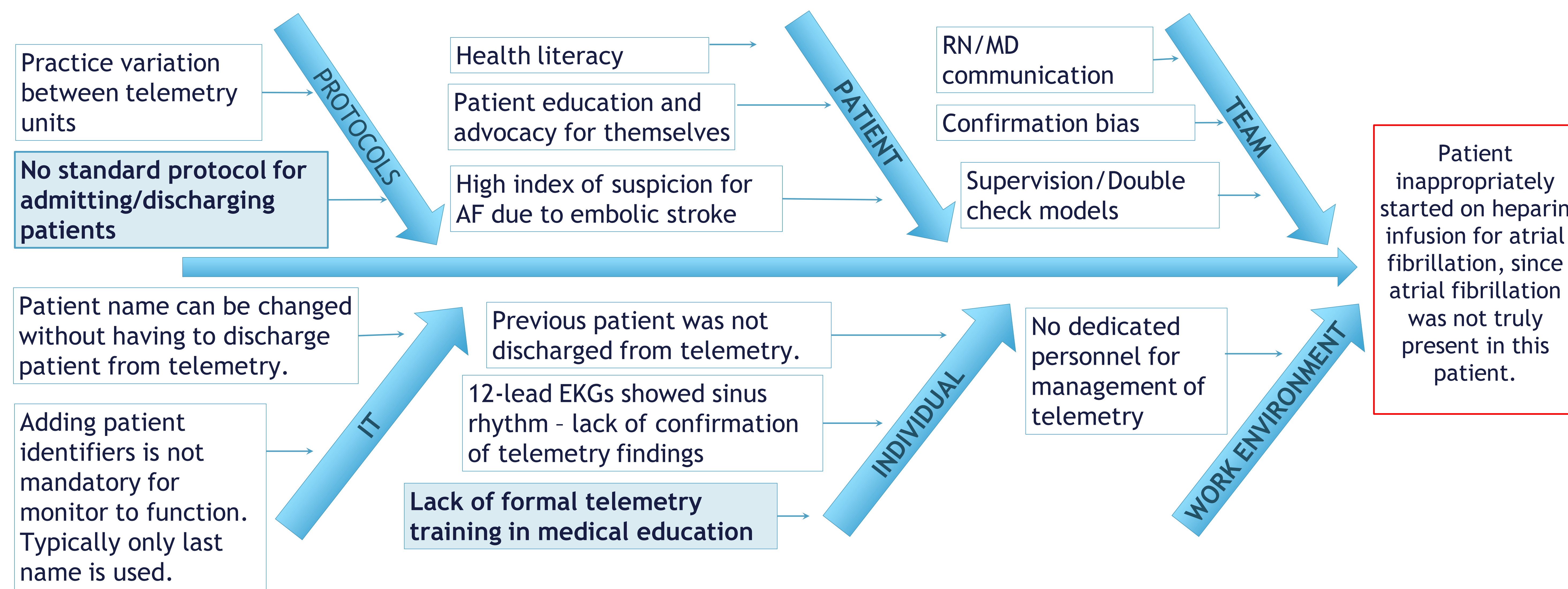
Thomas Jefferson University Hospital, Philadelphia, PA

CASE PRESENTATION



Summary of Error : The patient was started on anticoagulation for atrial fibrillation; however atrial fibrillation was not present .

ROOT CAUSE ANALYSIS



GOALS FOR IMPROVEMENT

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- (1) To standardize the process for telemetry admission and discharge so that patients are always correctly identified on telemetry.
- (2) To incorporate telemetry interpretation into medical education curricula so that providers can accurately identify arrhythmia events.

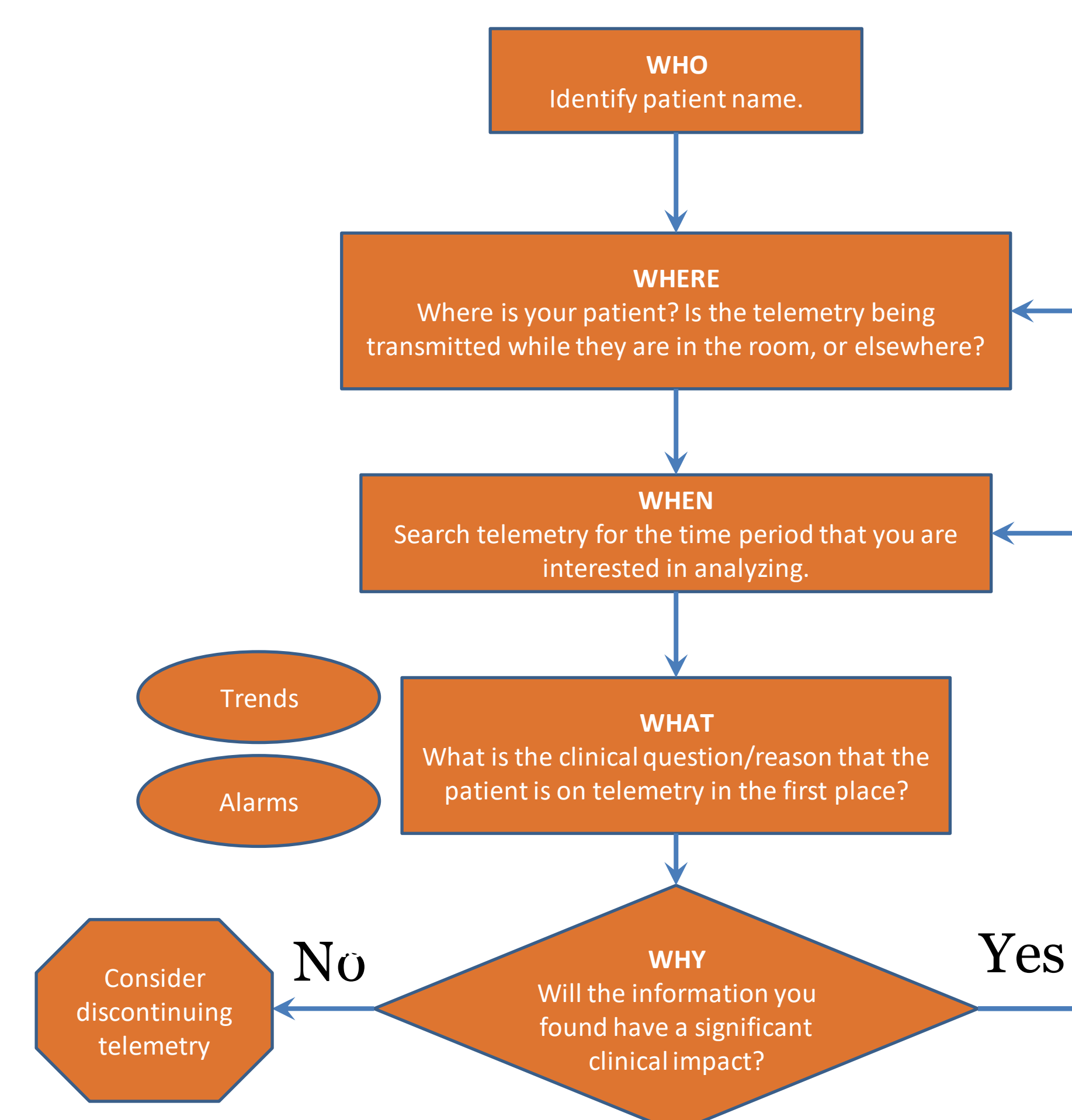
SMART Aims:

By the end of the 2017 academic year:

- (1) 90-percent of nursing staff on the inpatient medicine units will know the procedure for telemetry admission and discharge;
- (2) 90-percent of internal medicine residents will be able to describe a process for telemetry interpretation.

PROPOSED INTERVENTION

- (1) Create a **standardized module** for nurses which will teach the telemetry admission and discharge process
- (2) Develop an **algorithm for telemetry interpretation** to be used by house staff.



NEXT STEPS

1. Partner with nursing leadership on telemetry units to implement education sessions on the telemetry admission/discharge process.
2. Incorporate telemetry interpretation into intern orientation and signoff requirements.
3. Survey medical staff to assess completion of the training module as well as its implementation in clinical practice.
4. Continue to encourage providers to report telemetry errors through the Error Reporting System, and ask those who interpret telemetry often (i.e. cardiology) for their assessment of the type and frequency of telemetry errors to monitor future issues.

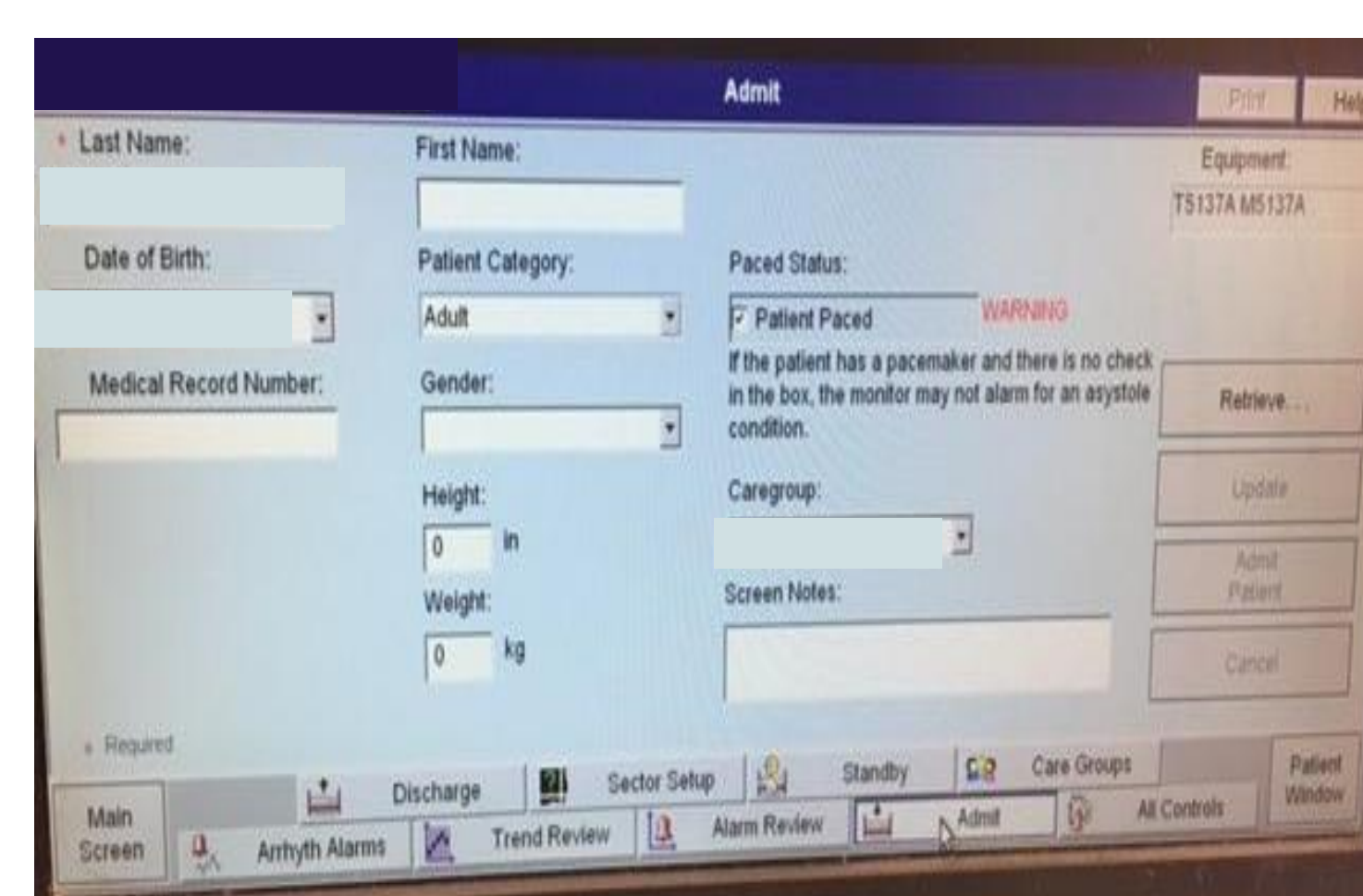
CURRENT PRACTICES OF TELEMETRY MANAGEMENT

Admission Process

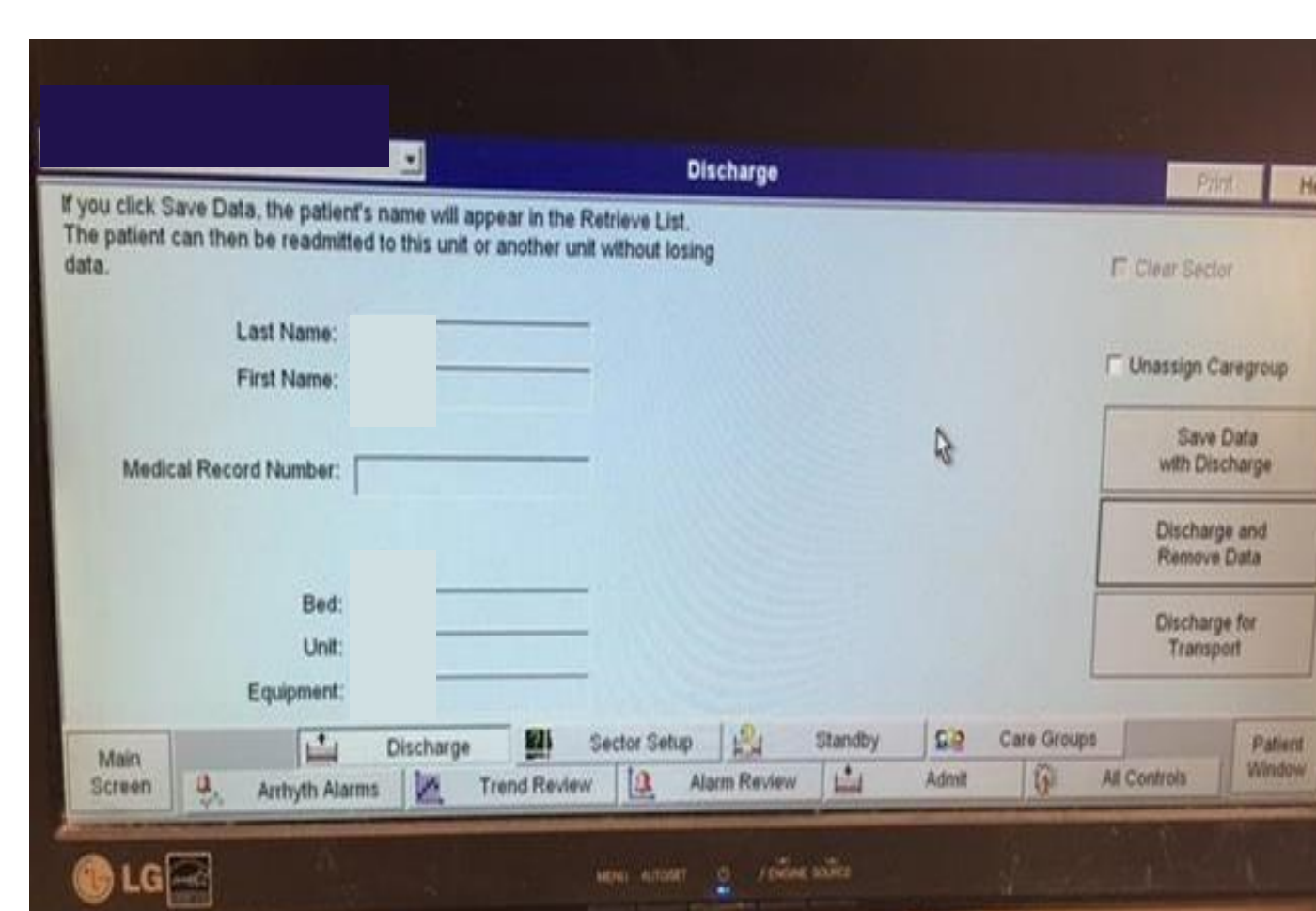
- Patient is connected to a telemetry unit.
- Entering information is optional (except for patient last name), but there is space for several identifiers.
- These can be updated at any time.

Discharge Process

- Patient is disconnected from telemetry unit.
- Click one of the discharge buttons.
- Patient data may be saved (stored remotely by vendor for 24 -72 hours) or discarded.



Admit Screen



Discharge Screen