

# 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

# CASE PRESENTATION

A patient with a complex past medical history was admitted to a community hospital with symptoms of stroke, and he was found to have multiple acute cerebral infarctions on MRI. He was transferred to Jefferson for further Day 0 management, and he was admitted to a telemetry unit. Day 1 Morning and afternoon EKGs showed normal sinus rhythm. PGYI notes atrial fibrillation on review of telemetry alerts. Heparin infusion started. Cardiology was consulted, and they determined that Day 2 the atrial fibrillation alert was actually from the day prior to when this patient was admitted.

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

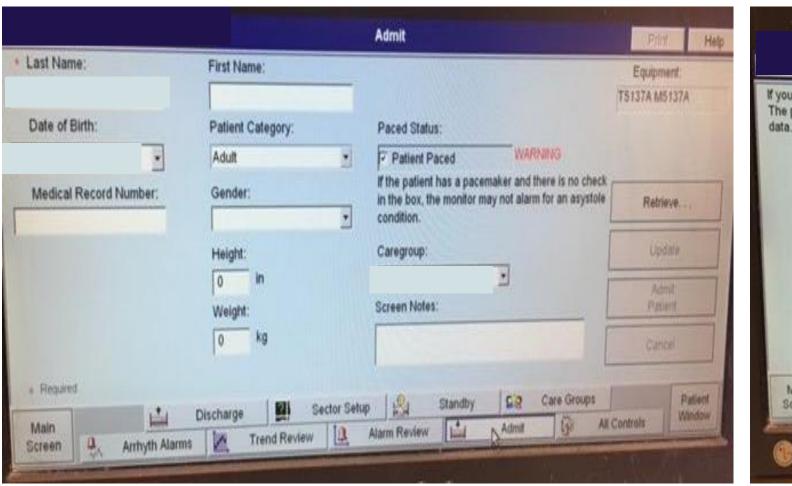
# CURRENT PRACTICES OF TELEMETRY MANAGEMENT

### **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 for 24 -72 hours) or discarded.



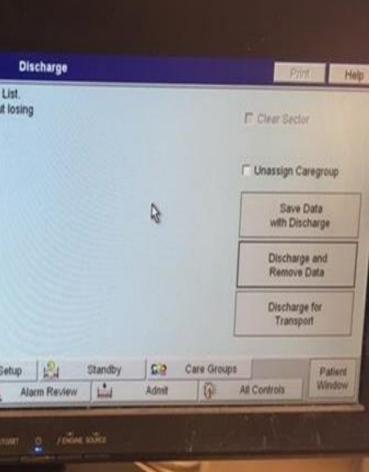
ick Save Data, the patient's name will appear in the Retrieve List. at can then be readmitted to this unit or another unit without losing Medical Record Number:

Admit Screen

Discharge Screen

# **ROOT CAUSE ANALYSIS**

(stored remotely by vendor

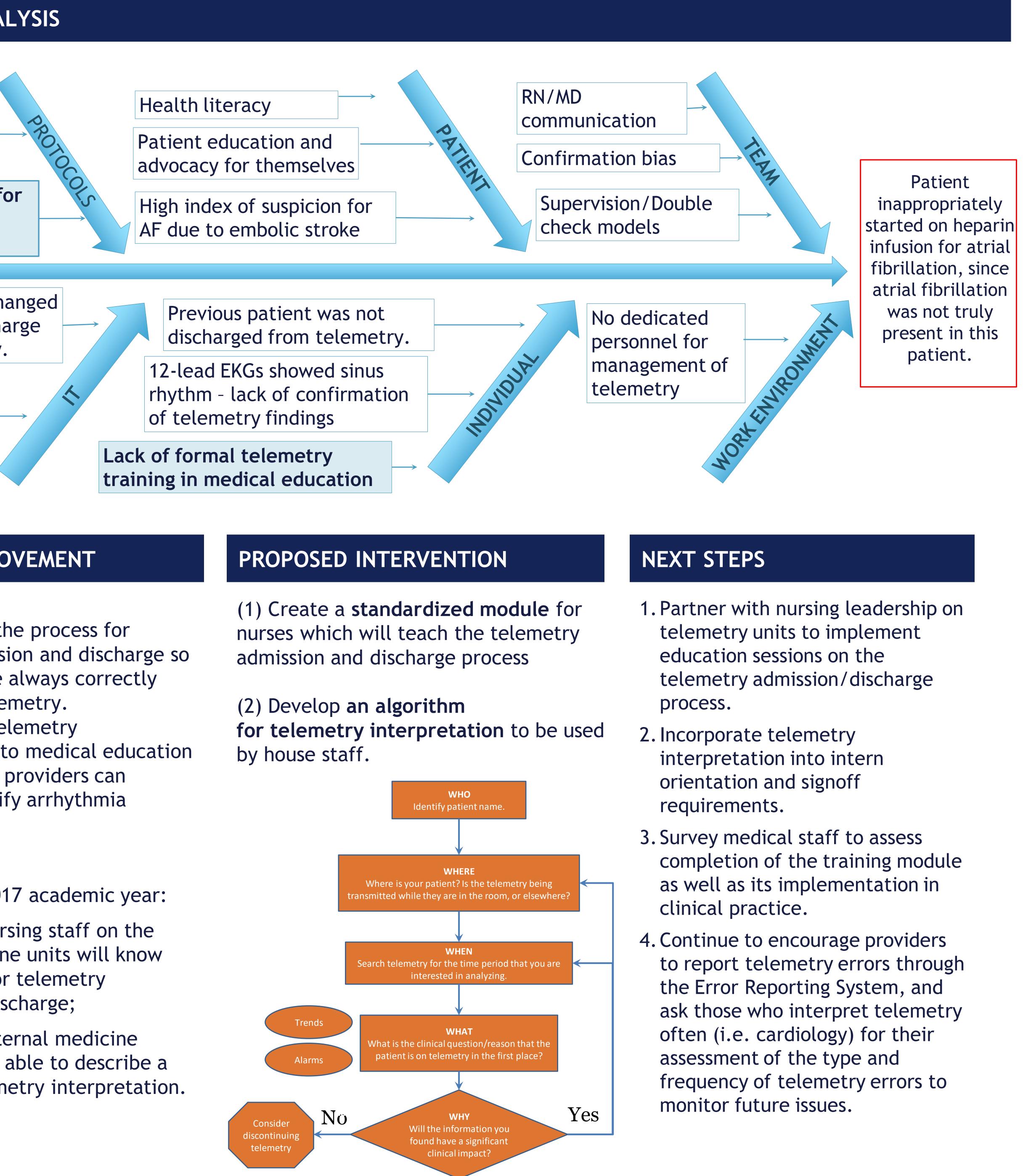


Practice variation between telemetry units

No standard protocol for admitting/discharging patients

Patient name can be changed without having to discharge patient from telemetry.

Adding patient identifiers is not mandatory for monitor to function. Typically only last name is used.



# **GOALS FOR IMPROVEMENT**

### **GOALS**:

- (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.

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