

Patient Safety and Clinical Quality Update

- Clinical Emergencies
- High Risk/Low Volume Procedures
- Culture of Patient Safety Survey Results

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Clinical Emergencies

- Febrile neutropenia/Sepsis
- Peri-op hemorrhage (intra and post-op)
- Post-op neck surgery
- In-hospital suicide attempt
- Emergent cardiac events
- Neurologic Code (stroke, spinal cord)
- Urgent unplanned admissions
- Difficult airway
- Electrolyte abnormalities

Febrile Neutropenia/Sepsis

Trigger Events

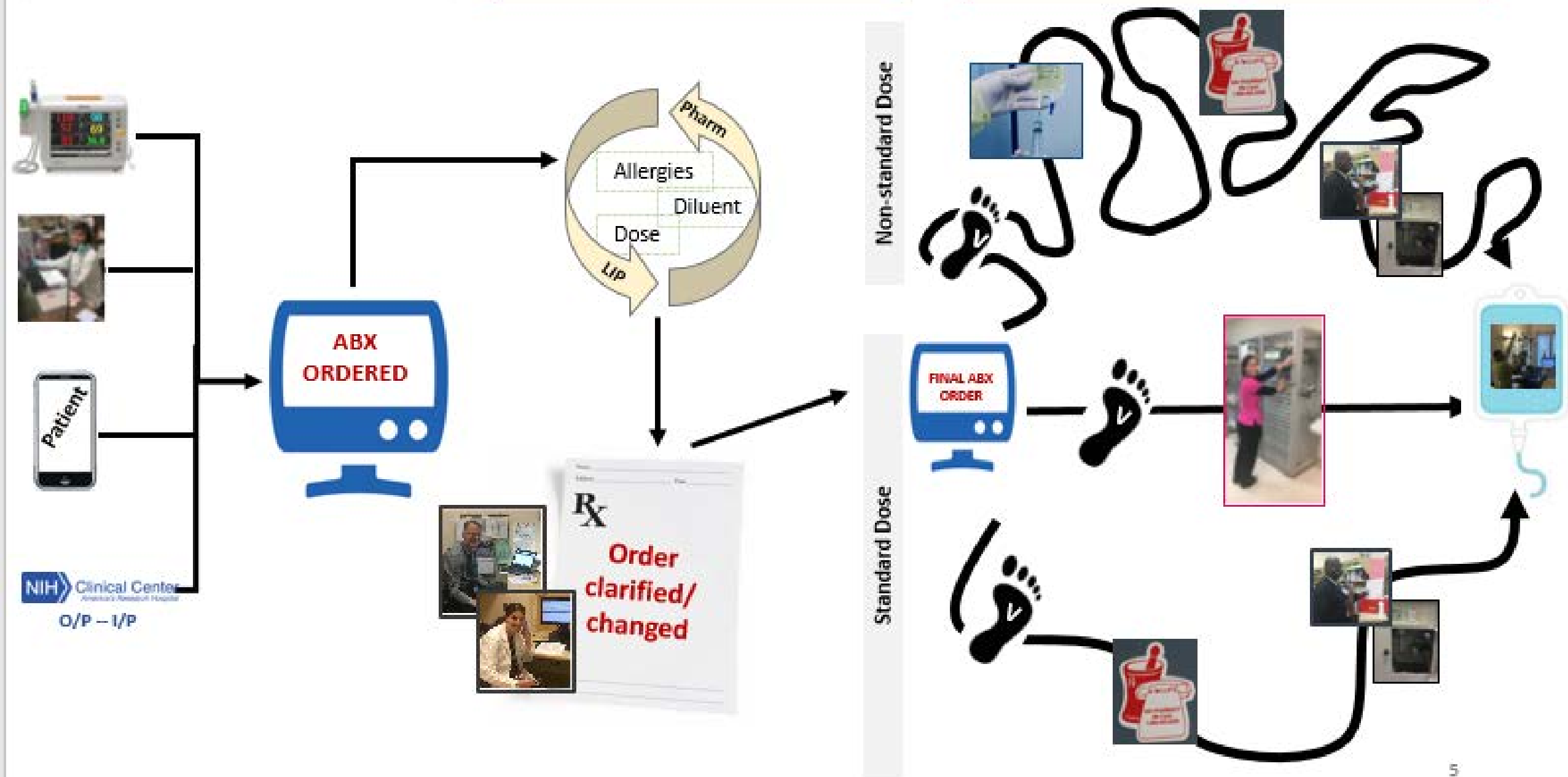
- Neutropenic pediatric patient
- STARS reports of delayed antibiotic administrations

Deep Dive

(A) Recognition to Initial Order

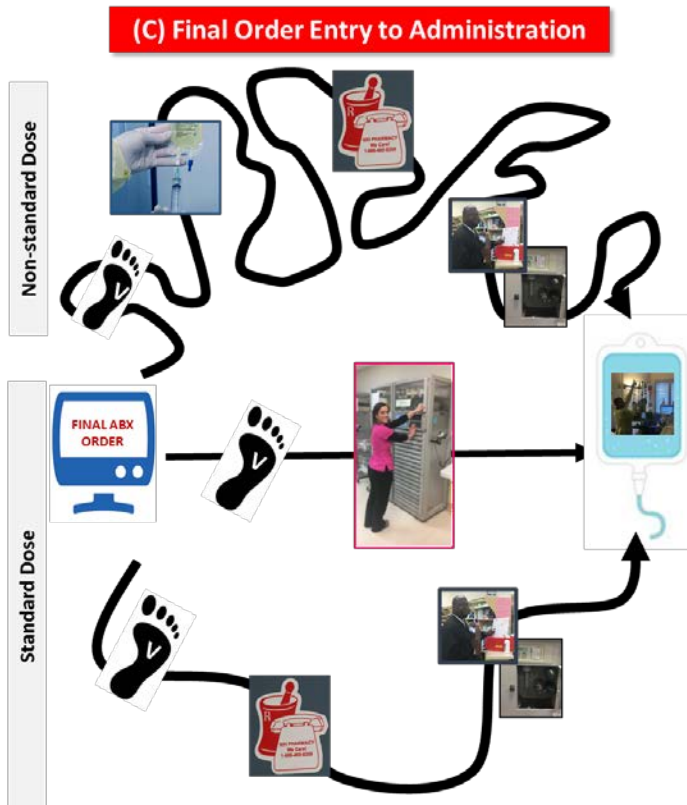
(B) Initial to Final Order Entry

(C) Final Order Entry to Administration



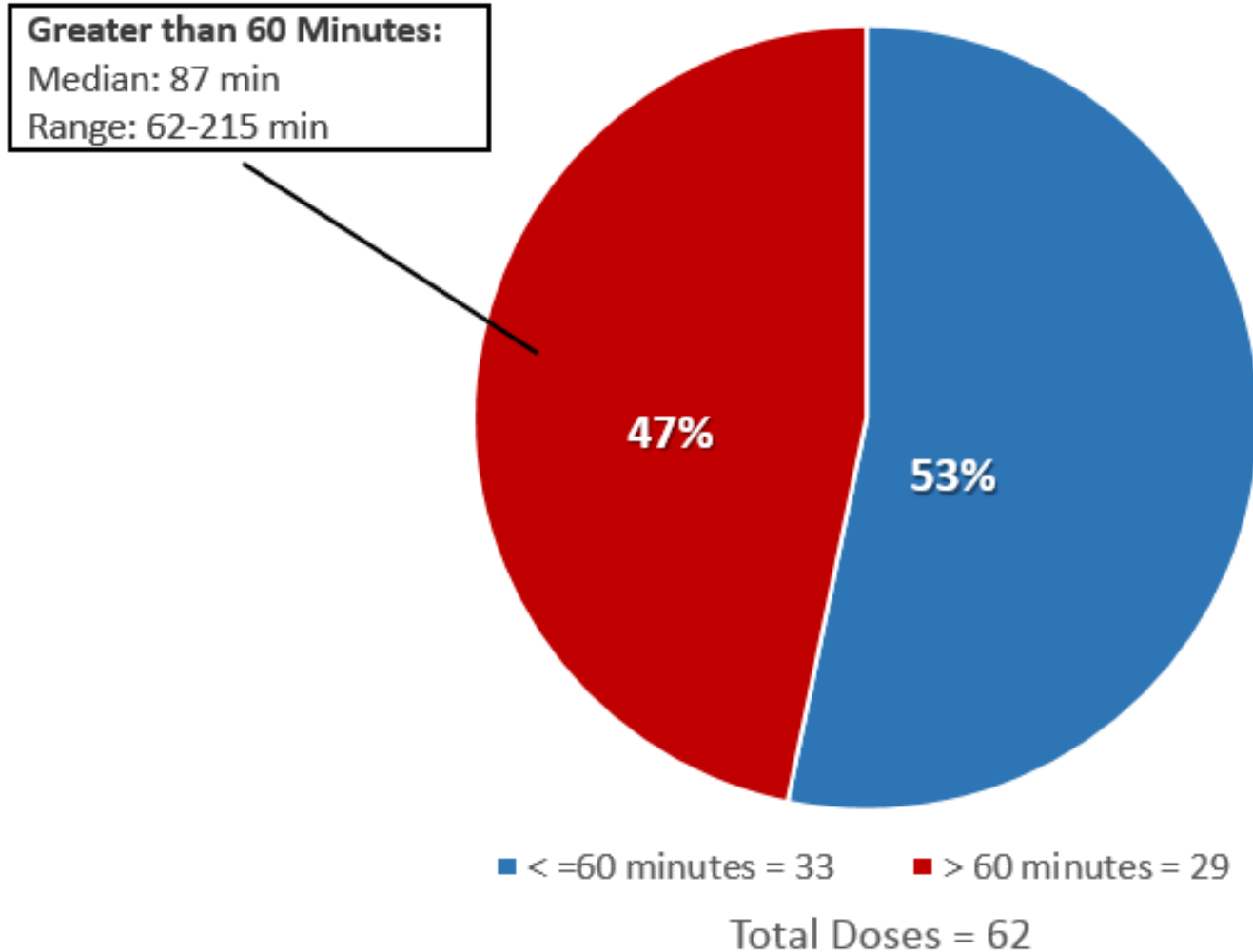
Primary Outcome: STAT Order to Infusion of Drug

Institutional Goal
 ≤ 60 minutes



STAT Order Entry to Infusion of Antibiotic

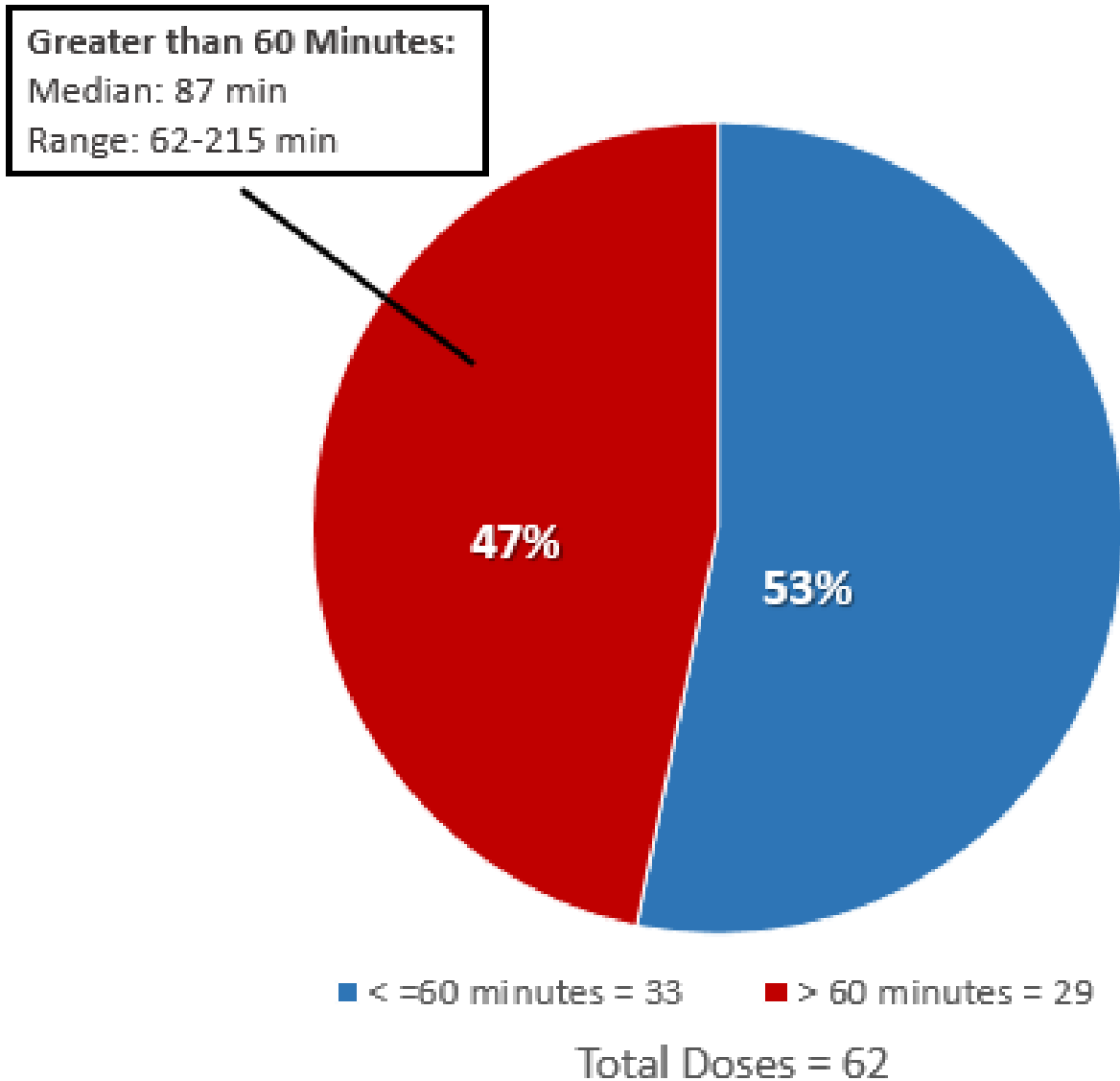
August/September 2017



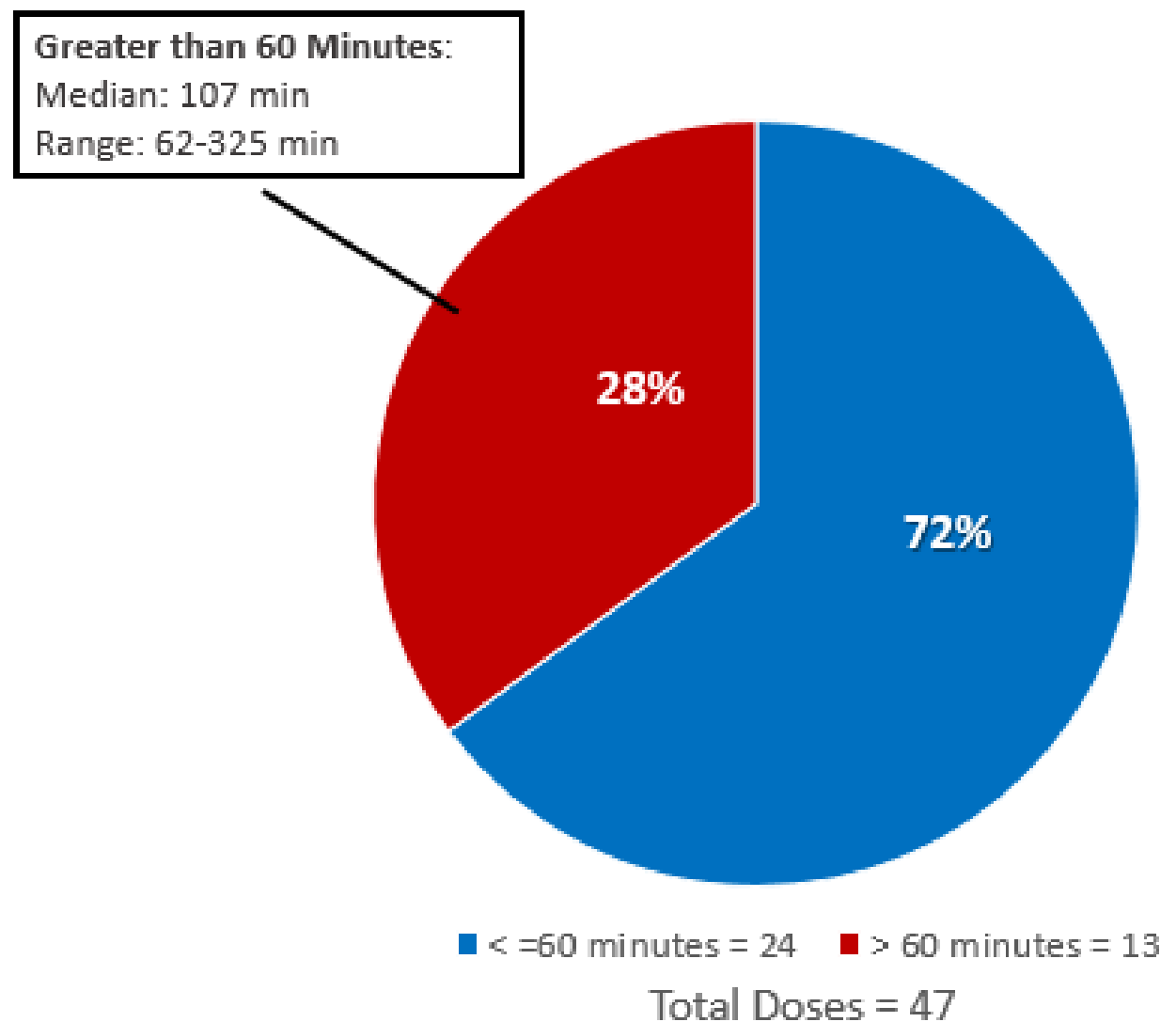
Interventions

- Immediate Actions
 - “Deep Dive” conducted to evaluate timeliness of all STAT antibiotics
 - Communication pathways improved – clarified processes for escalation of issues; internal pharmacy information exchange
 - Practice change re: “overuse” of STAT orders
 - First line antibiotics made available on patient care units
- “Post Hurricane IV fluid shortage” Actions
 - Additional antibiotics placed on patient care units
 - Nurses approved to administer broader range of antibiotic doses via IV push

August/September 2017



November/December 2017



Peri-operative Hemorrhage

Managing Massive Blood Loss/Transfusions

Evidence of Harm related to Massive Blood Loss/Transfusions

- Historically not tracked
- Several instances of massive blood loss with associated harm reviewed in the ICU Trigger Tool program
- Findings from Surgical M&M

“Etiology”

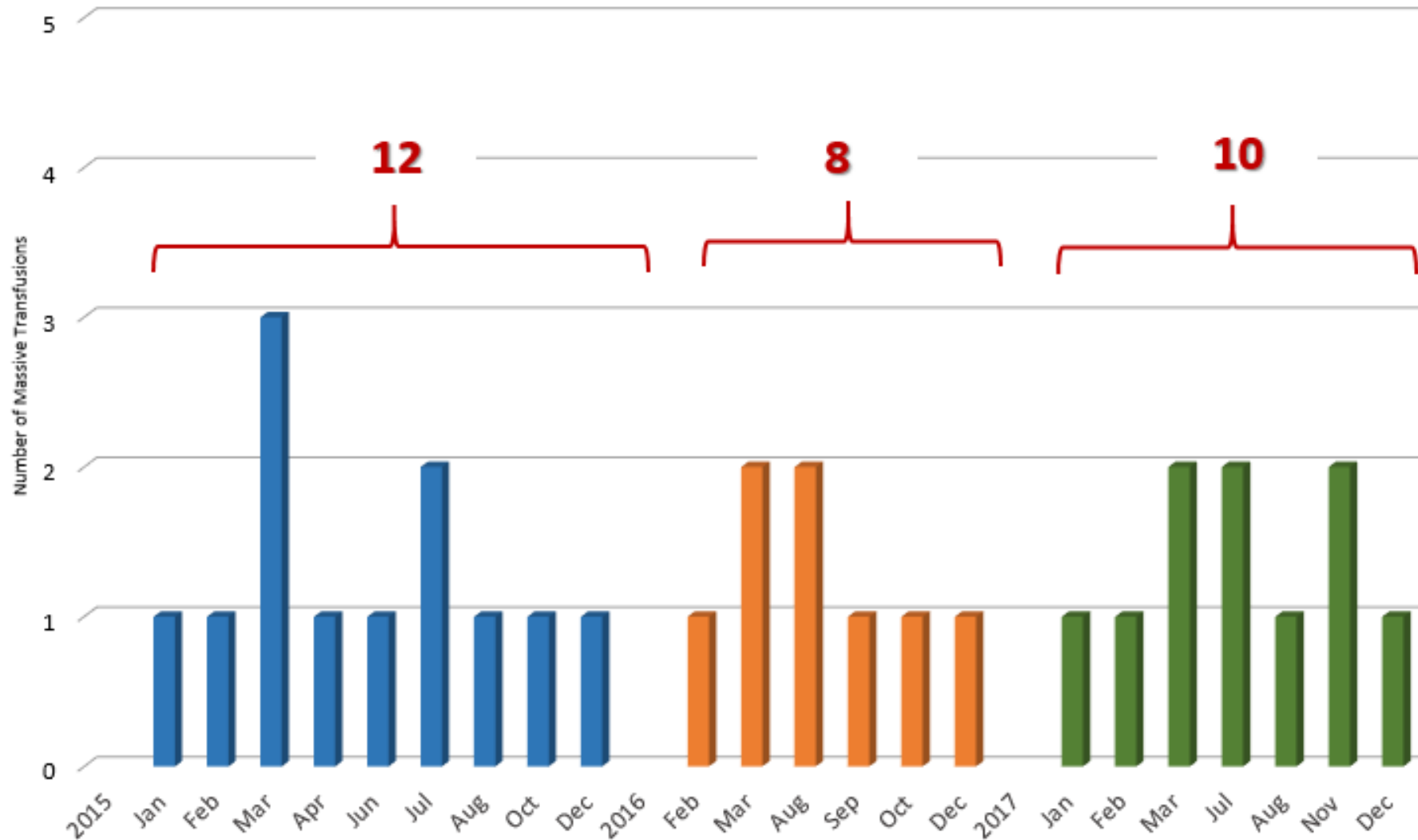
- “Kidney-Sparing” Surgeries
- Post-procedural bleeding complications

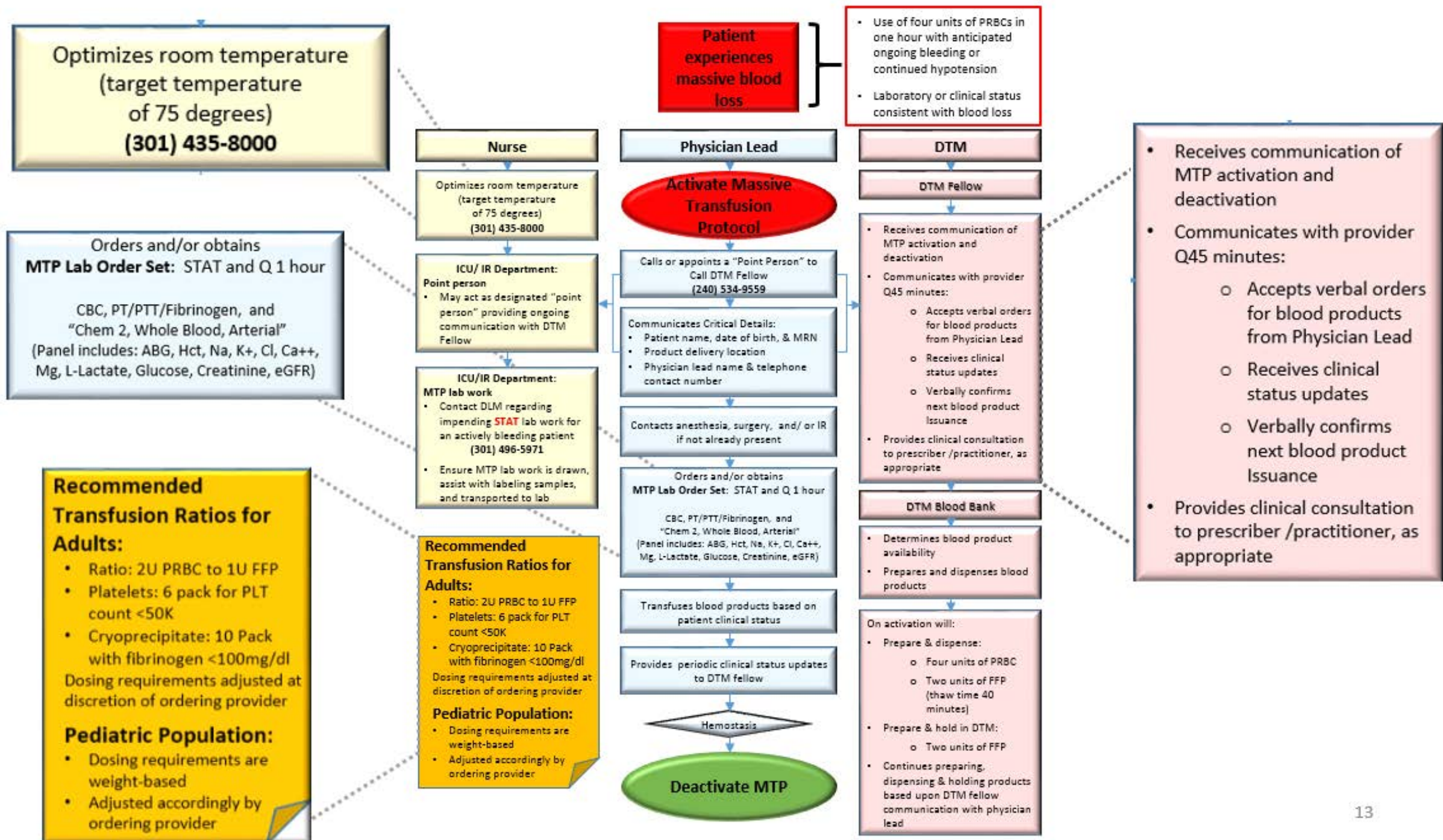
Definition/Trigger for Invoking New Massive Transfusion Protocol

- Use of four units of PRBCs in one hour with anticipated ongoing bleeding or continued hypotension
- Laboratory or clinical status consistent with blood loss

Frequency of Massive Transfusions

(Data represent cases with >10 units of RBCs in 24h hour period)





Process Measures

Lab order set

Orders and/or obtains
MTP Lab Order Set: STAT and Q 1 hour

CBC, PT/PTT/Fibrinogen, and
"Chem 2, Whole Blood, Arterial"
(Panel includes: ABG, Hct, Na, K+, Cl, Ca++,
Mg, L-Lactate, Glucose, Creatinine, eGFR)

DTM Fellow engagement

- Receives communication of MTP activation and deactivation
- Communicates with provider QHS minutes
 - Accepts verbal orders for blood products from Physician Lead
 - Receives clinical status updates
 - Verbally confirms next blood product issuance
- Provides clinical consultation to prescriber / practitioner, as appropriate

Patient temperature

Optimizes room temperature
(target temperature
of 75 degrees)
(301) 435-8000

Outcome Measures

RBC/FFP/CRYO/PLT Ratio

Post-procedure hemostasis

Managing Risk: High Risk/Low Volume Activities

High Risk/Low Volume Clinical Activities

Long time conundrum and noted in the Simonson Report

Focus of the PSCPQ Committee

Subcommittee charged

- Expand scope to include surgery/invasive procedures as well as new research procedures/therapies
- Determine volume/characteristics of these types of activities
 - Survey of practitioners (types of procedures, perception of risk, competence)
 - CRIS review of procedures

High Risk/Low Volume Clinical Activities

Mitigate the risks of “low volume” through systems approach

- Military medicine’s playbook
- Key Strategies
 - Effective communication processes and team approach
 - Active and early engagement of attending/senior staff
 - Reliance on outside expertise
 - Standardization of care processes
 - Rigorous outcomes review



Culture of Patient Safety Survey

Preliminary Findings

Culture of Patient Safety Survey

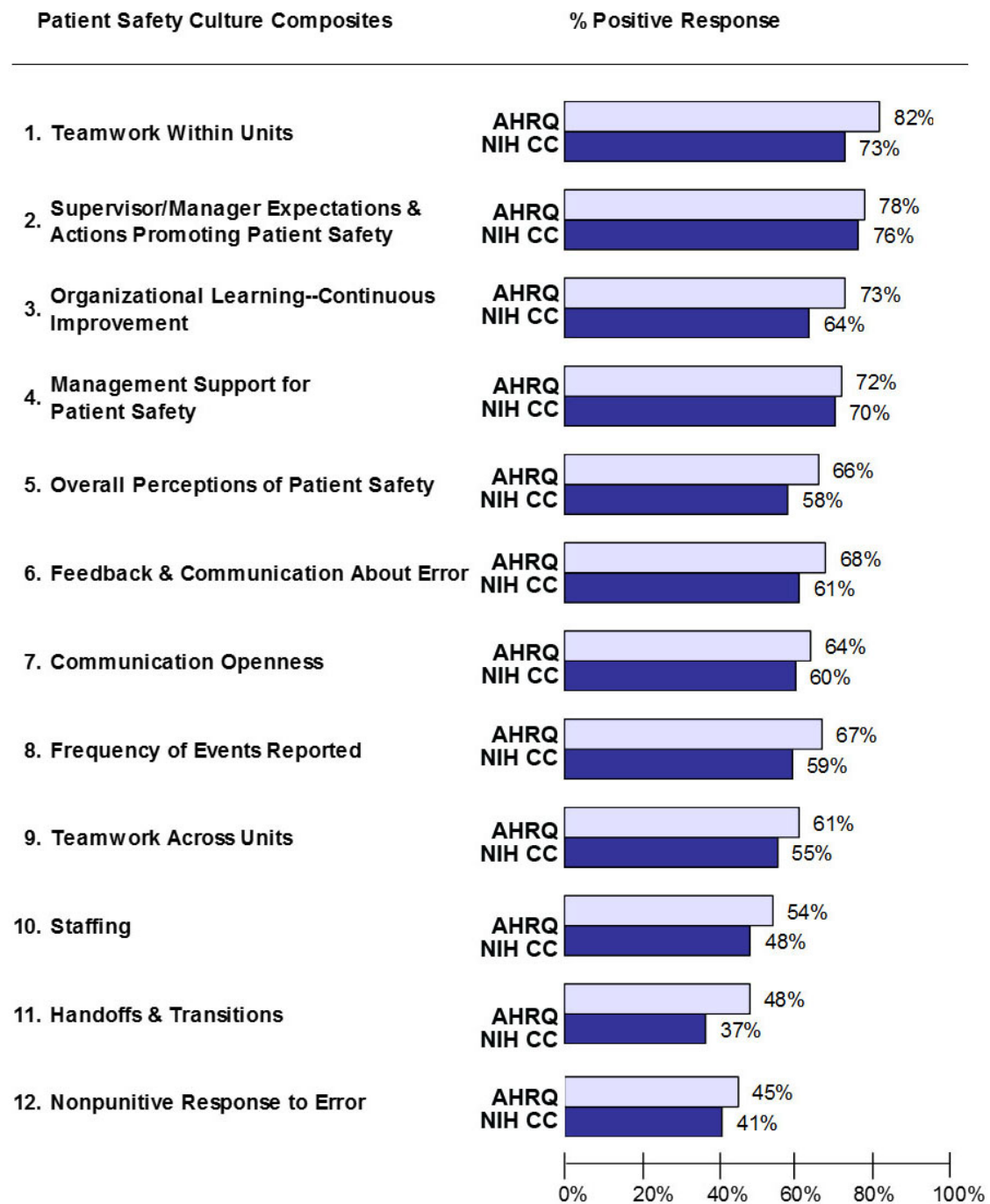
Designed by AHRQ to evaluate domains of safety culture

- Communication/Hand-offs
- Teamwork
- Non-punitive response to errors
- Reporting
- Organizational learning
- Leadership support

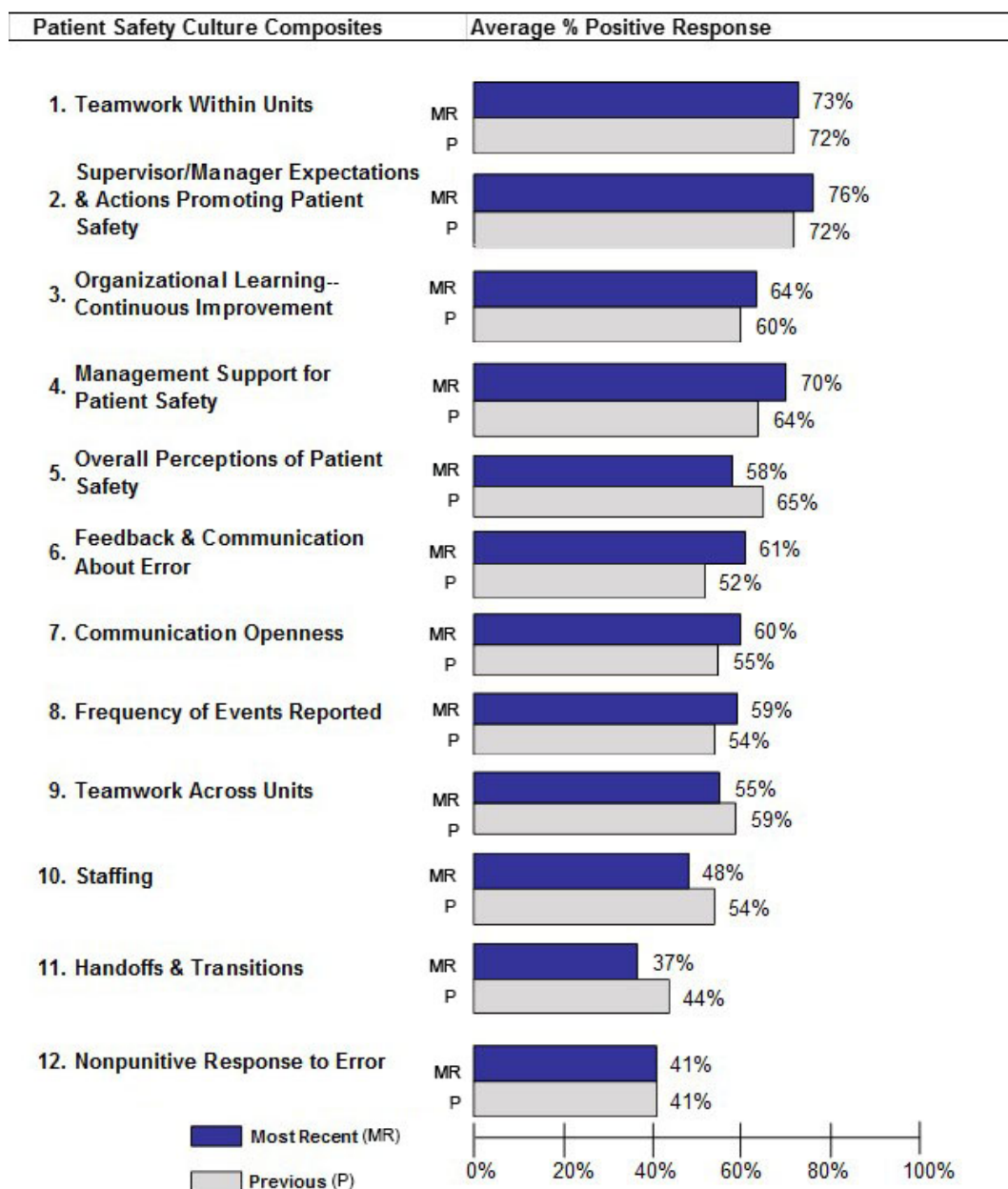
Survey last fielded in 2012

Clinical Center 2017 survey results

- 1,171 total participants; 800-900 “active” participants
- 73% have direct patient contact
- Response rate: approx. 30-35%



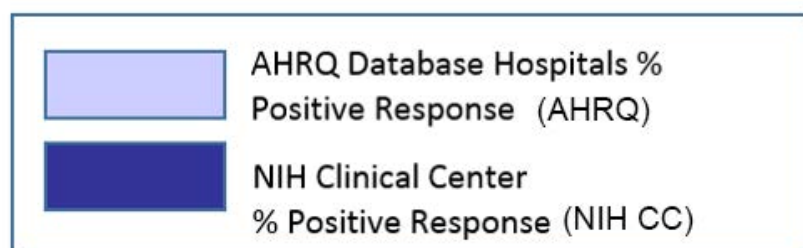
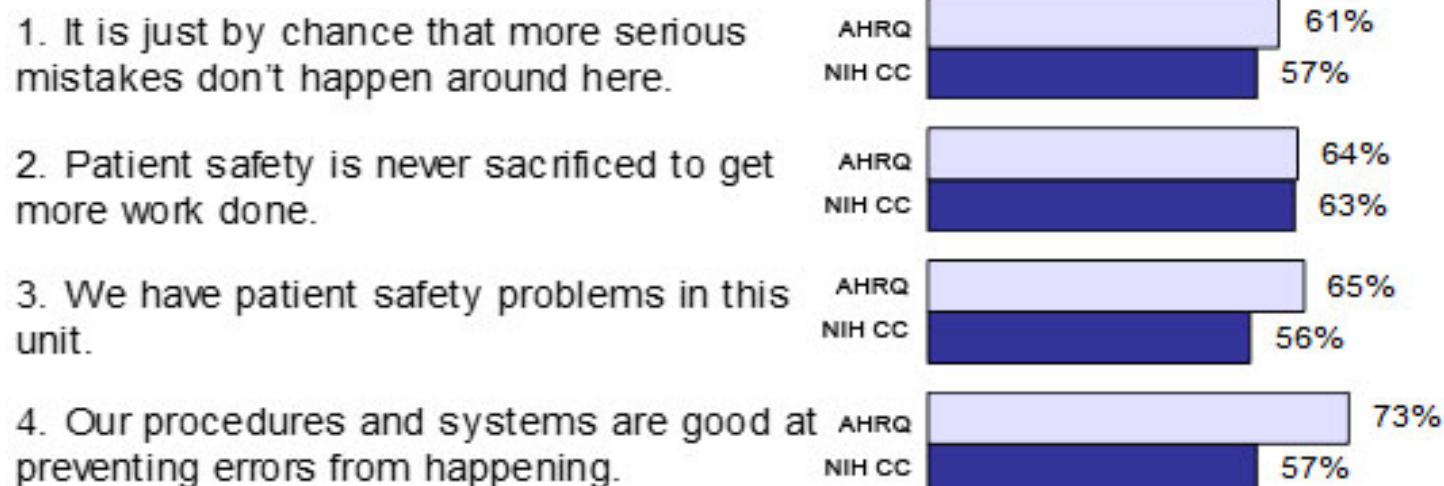
Composite-Level Trending Results for NIH Clinical Center



Composite Level Trending Results

Patient Safety Culture Composite		Your Hospital's % Positive		Difference	Change
		Recent	Previous		
1	Teamwork Within Units	73%	72%	1	↑
2	Supervisor/Manager Expectations & Actions Promoting Patient Safety	76%	72%	4	↑
3	Organizational Learning— Continuous Improvement	64%	60%	4	↑
4	Management Support for Patient Safety	70%	64%	6	↑
5	Overall Perceptions of Patient Safety	58%	65%	-7	↓
6	Feedback & Communication About Error	61%	52%	9	↑
7	Communication Openness	60%	55%	5	↑
8	Frequency of Events Reported	59%	54%	5	↑
9	Teamwork Across Units	55%	59%	-4	↓
10	Staffing	48%	54%	-6	↓
11	Handoffs & Transitions	37%	44%	-7	↓
12	Nonpunitive Response to Error	41%	41%	0	

5. Overall Perceptions of Patient Safety



NOTE: For negatively worded questions, "% positive response" represents "Strongly Disagree" and "Disagree" responses

11. Handoffs & Transitions

1. Things "fall between the cracks" when transferring patients from one unit to another.
2. Important patient care information is often lost during shift changes.
3. Problems often occur in the exchange of information across hospital units.
4. Shift changes are problematic for patients in this hospital.

