

**SPECTRUM HEALTH**



# MTP: Moving Towards Excellence

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# ACS Level 1 Trauma

Annual Volume - 1800



## Project Goals:

Compliance of 1:1:1 therapy

TXA given within 3 hours of arrival as appropriate

No wastage of plasma/platelets

TEG testing utilized to guide MTP blood product use

# MTP Plan

MTP revised (included TXA) October 2012

New CPOE sets revised Nov 2012

Education to physician / nursing on policy  
December → January

# Plan

January 2013 physicians & SH staff educated on TEG through department inservices, M & M (included staff & residents)

Lab included in plan

TEG technology placed on 150 computers

# Oct 2012-Jan 2013

N = 8

Compliance with 1:1:1 = 50% (4 cases)

Disposition 3 alive / 5 dead

Average ISS = 40

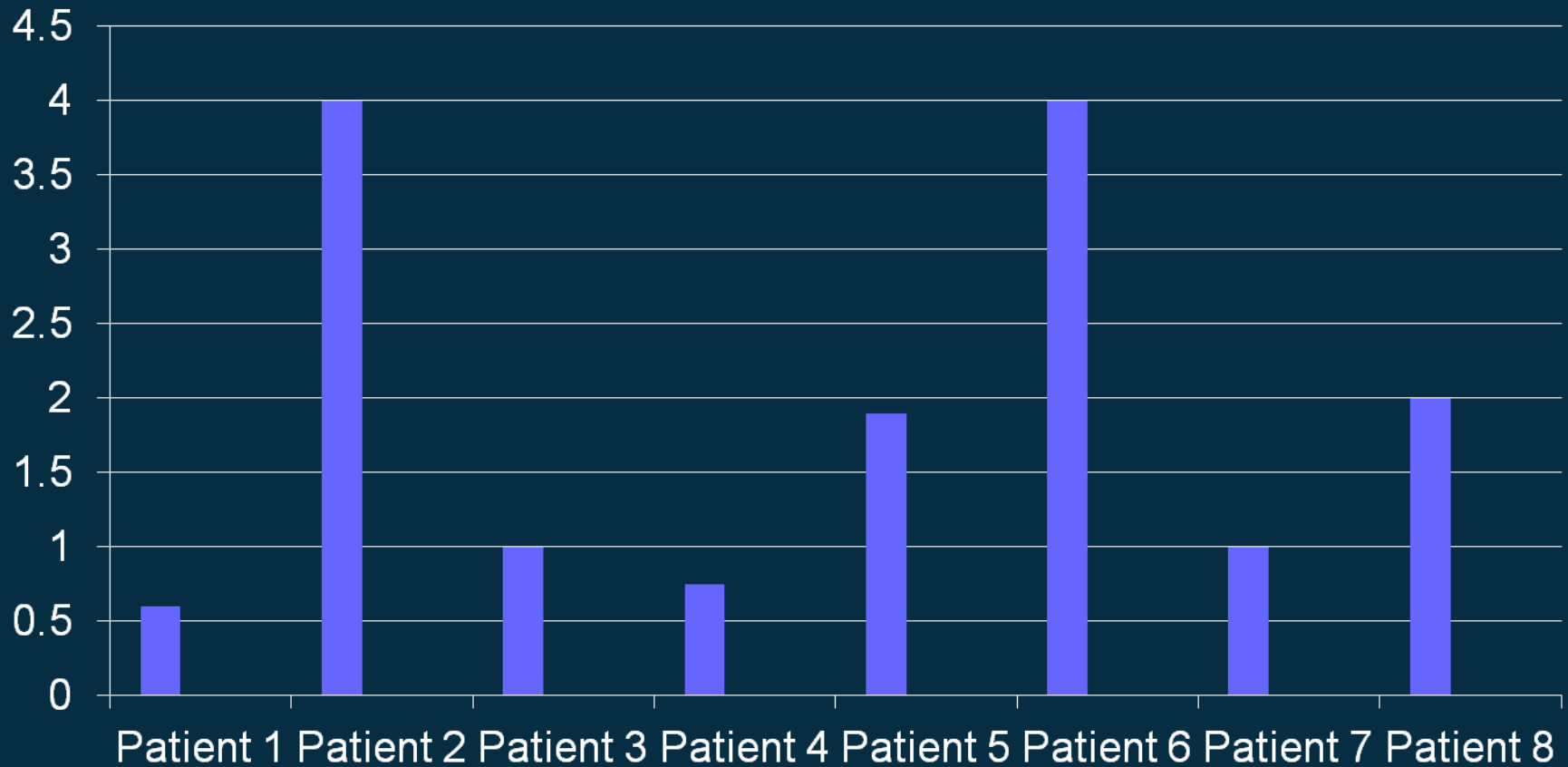
Total packed cells in 24 = 90

Total FFP in 24 = 56

Total Platelets in 24 = 15

TXA 1 case

# October 2012-January 2013





# Feb 2013- May 2013

N = 5

Compliance with 1:1:1 = 1

Disposition 1 alive / 4 dead

Average ISS = 43

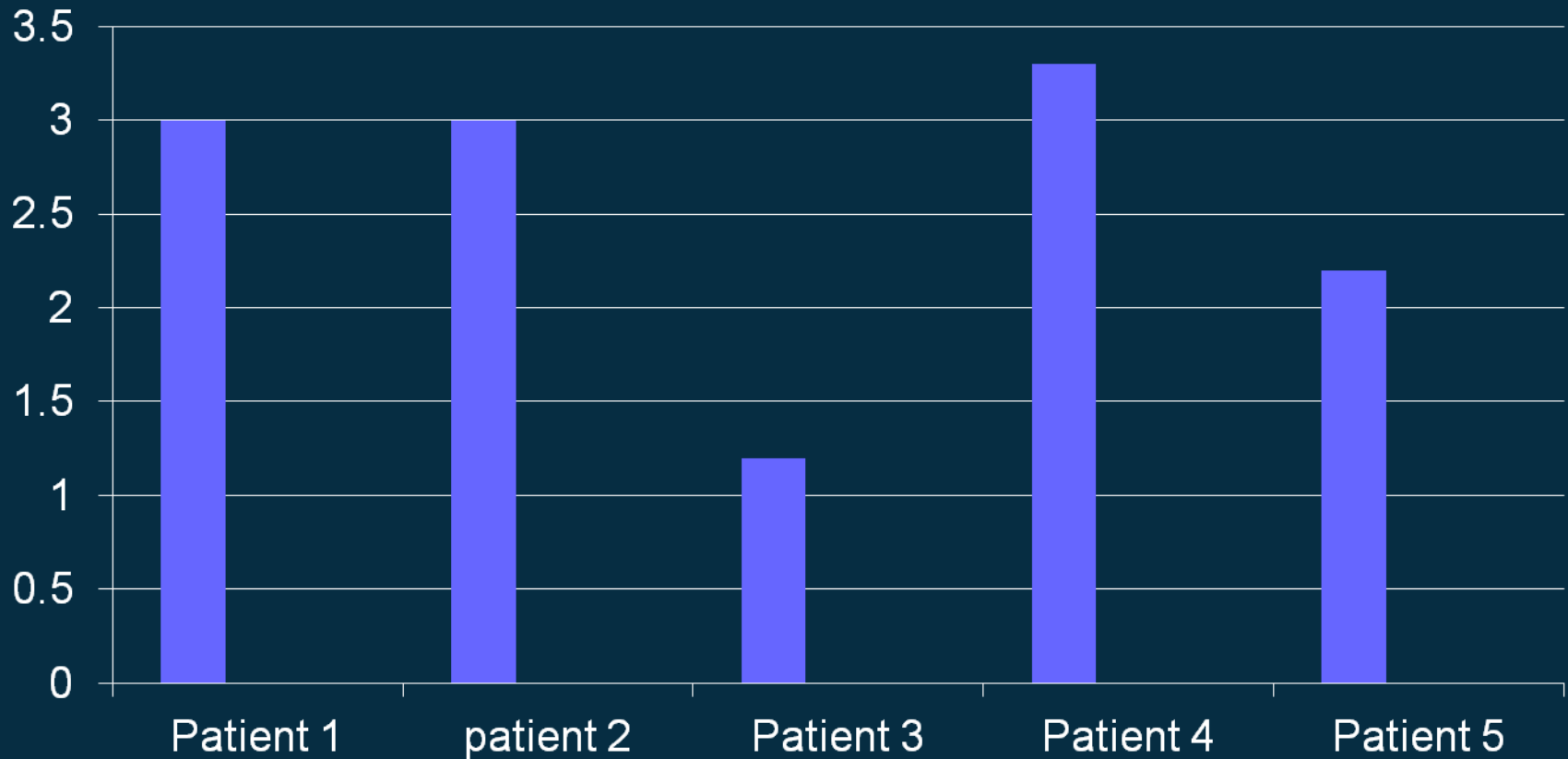
Total packed cells in 24 = 61

Total FFP in 24 = 26

Total Platelets in 24 = 36

TXA 3/5 60%

# February – May 2013



# Project results for ratio compliance / TXA

Variation influenced by:

Physicians

Location

Blood bank communication

Unidentified patient process

# Project results for ratio compliance / TXA

## Actions:

MTP under revision with broad inclusive representation

New education process – simulation to be included

Information in monthly resident orientation

Identified CPOE challenge

Developing over communication process

Recruited pharmacy in TXA

AeroMed now carrying TXA

# Project results TEG

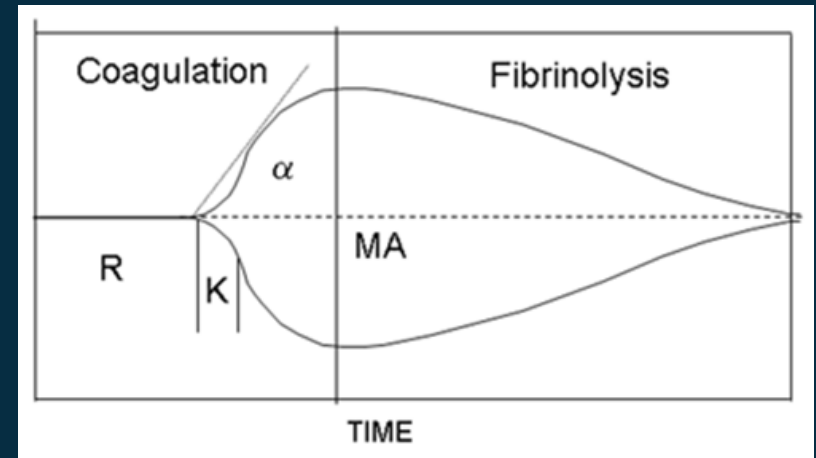
Stakeholders meeting for TEG algorithm development.

Physician champion across division

Physicians not comfortable with interpretation of TEG

Lab logistics (dependent on runner vs tube system)

r-TEG not available



# Project results TEG

## Action:

Remote lab access / Rapid TEG

Early communication with lab for TEG

Physician staff & resident, nursing education

CPOE revisions underway

# Additional Opportunities

Trauma registry – in depth look at our data (validation process)

Trauma Activation Process

Trauma Time Out Process (modified & adopted by ICU team)

Engagement of resident staff in trauma projects / guidelines

Improved relationship with blood bank