

Beyond Par with PULSARA:

Streamlining STEMI and Stroke Activation

E. Stein Bronsky, MD

Chief Medical Director, Colorado Springs Fire
Department

Medical Director, El Paso County, CO AMR



Healthcare has been communicating the same way for decades. That changes now.

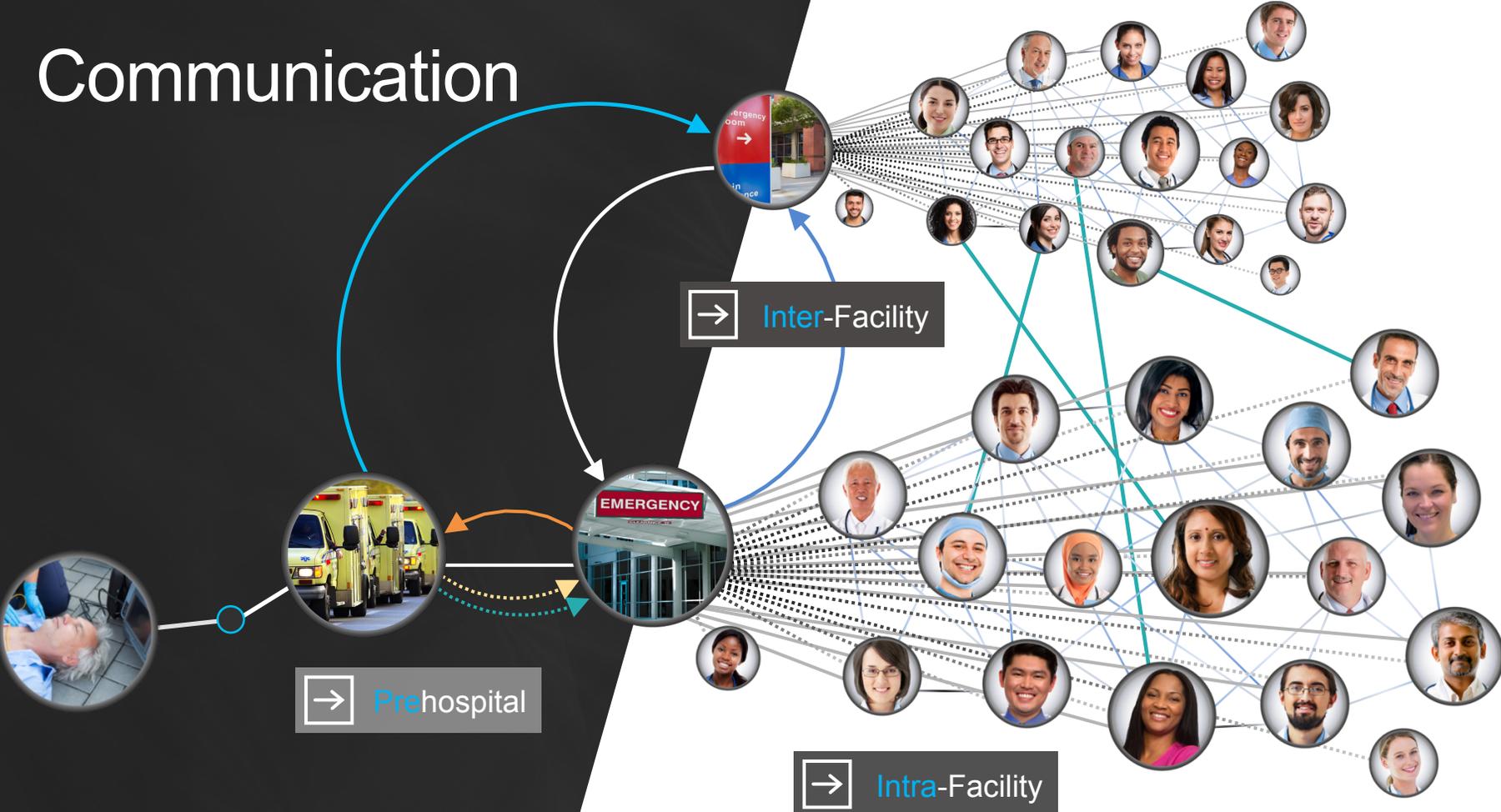
IT'S ABOUT **TIME**

What problem are you trying to solve?

- ECG Transmission?
- EMS to ED Communication?
- Hospital Communication?
- Regional Communication?
- Feedback?
- Documentation?
- Bypass?



Communication



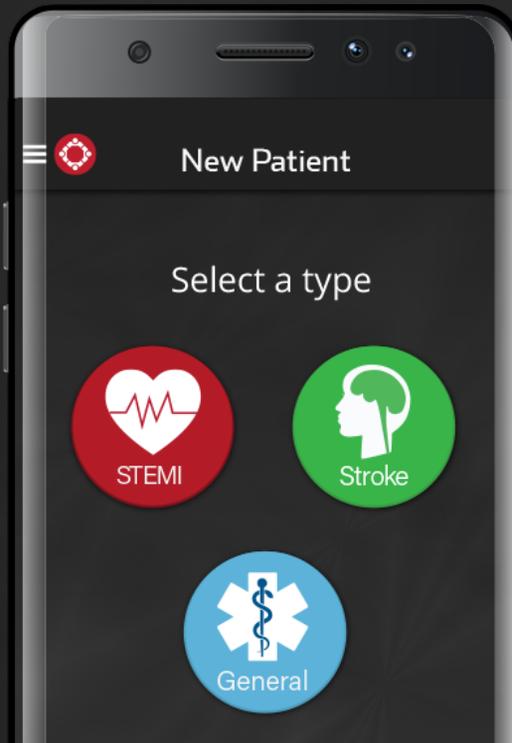
SILOED TEAMS





pulsara

ONE COMMUNICATION STANDARD



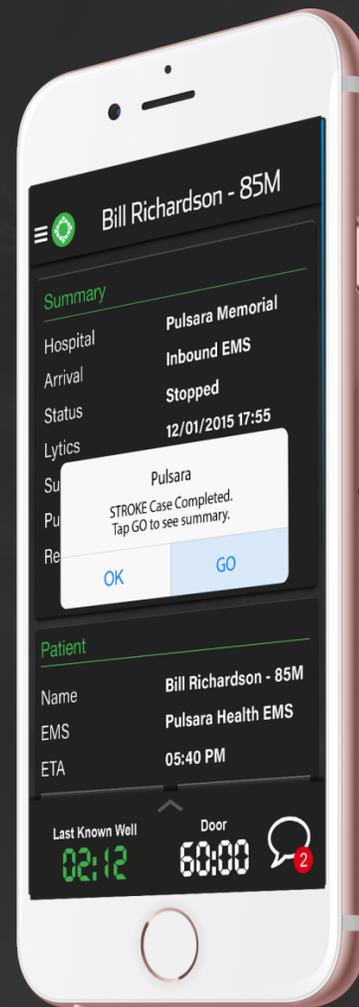
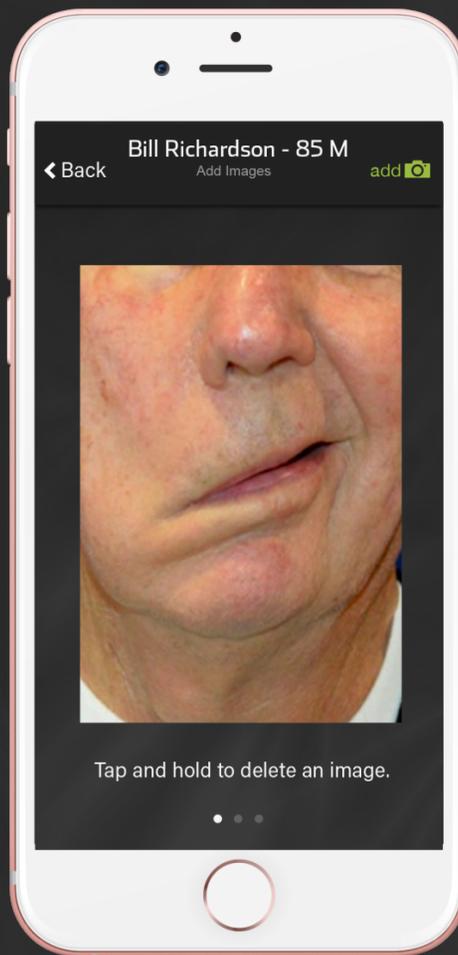
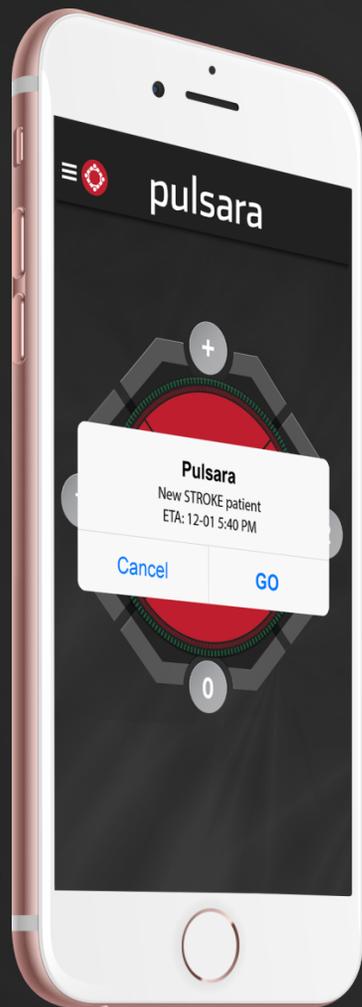
📌 Operationalize best practice protocols

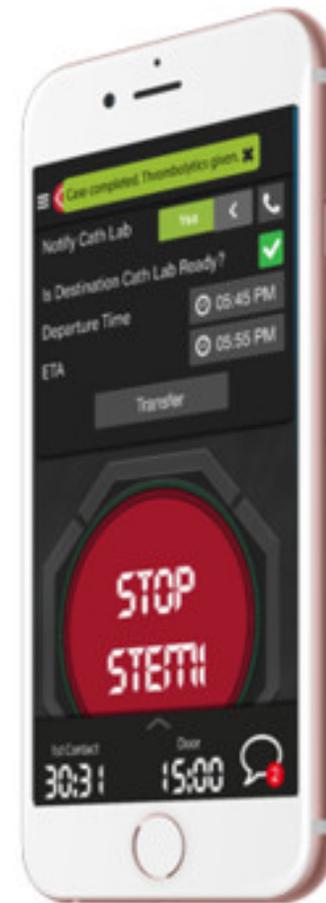
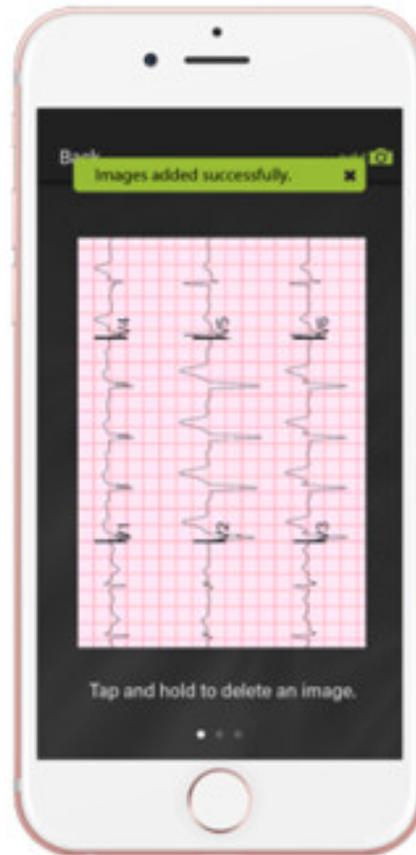
📌 Simplify

📌 Standardize

📌 Unite

- Prehospital
- Intra-Facility
- Inter-Facility



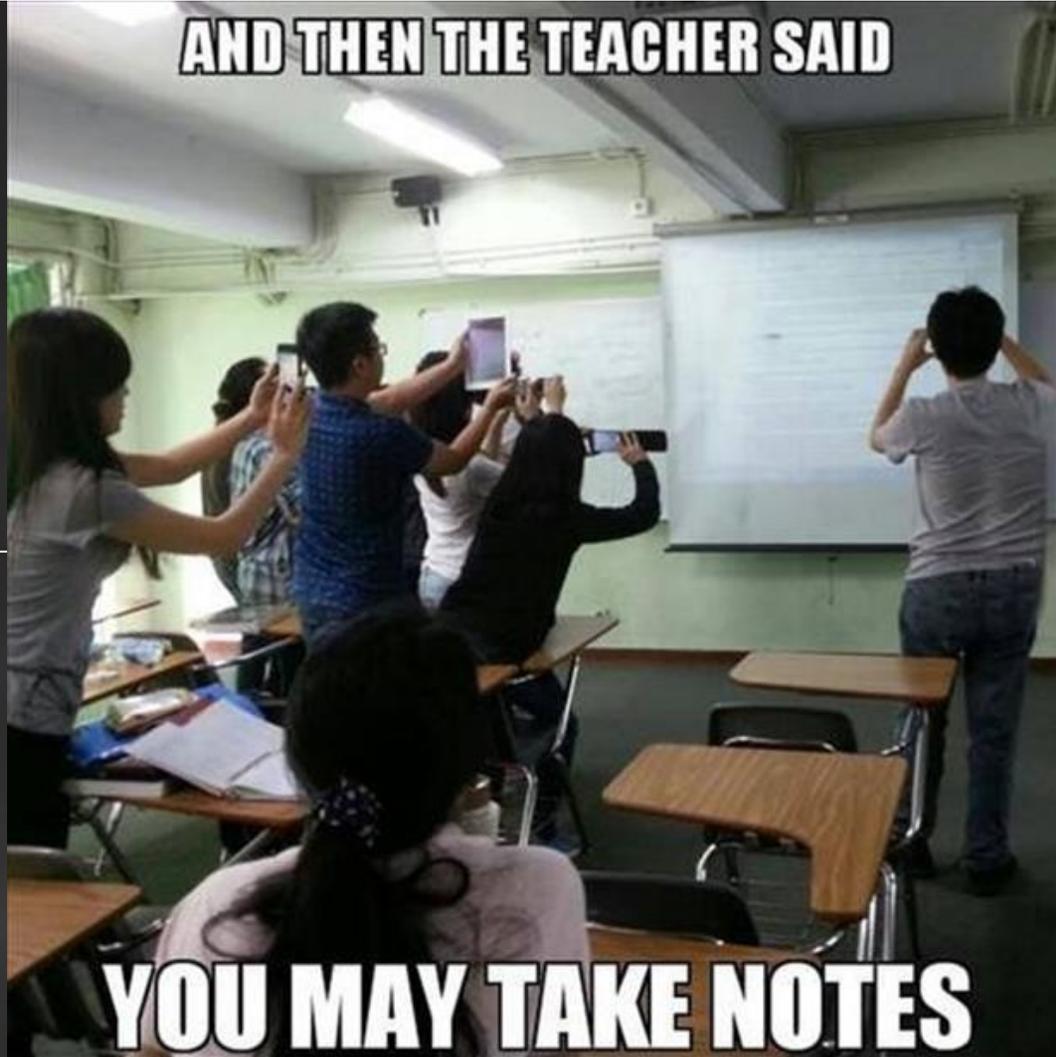


Challenges

► **Change me!**



AND THEN THE TEACHER SAID



YOU MAY TAKE NOTES

Challenges

- ▶ 48 EMS agencies
- ▶ Four major hospitals
- ▶ Admission of imperfection from hospital service lines
- ▶ Competition

Where to Start

Community agreement on key concepts:

- ▶ Creating an environment of collaboration
- ▶ Getting all EMS agencies and hospitals on the same page
- ▶ **All or nothing; EMS led (Antevy Style)**
- ▶ Strategy: Make the hospitals believe it was there idea!
 - ▶ They have to buy it

Hospitals

- ▶ Financial ownership
 - ▶ Service line buy in
 - ▶ Administrative ownership
 - ▶ IT services
-
- ▶ All hospitals online same day!

EMS

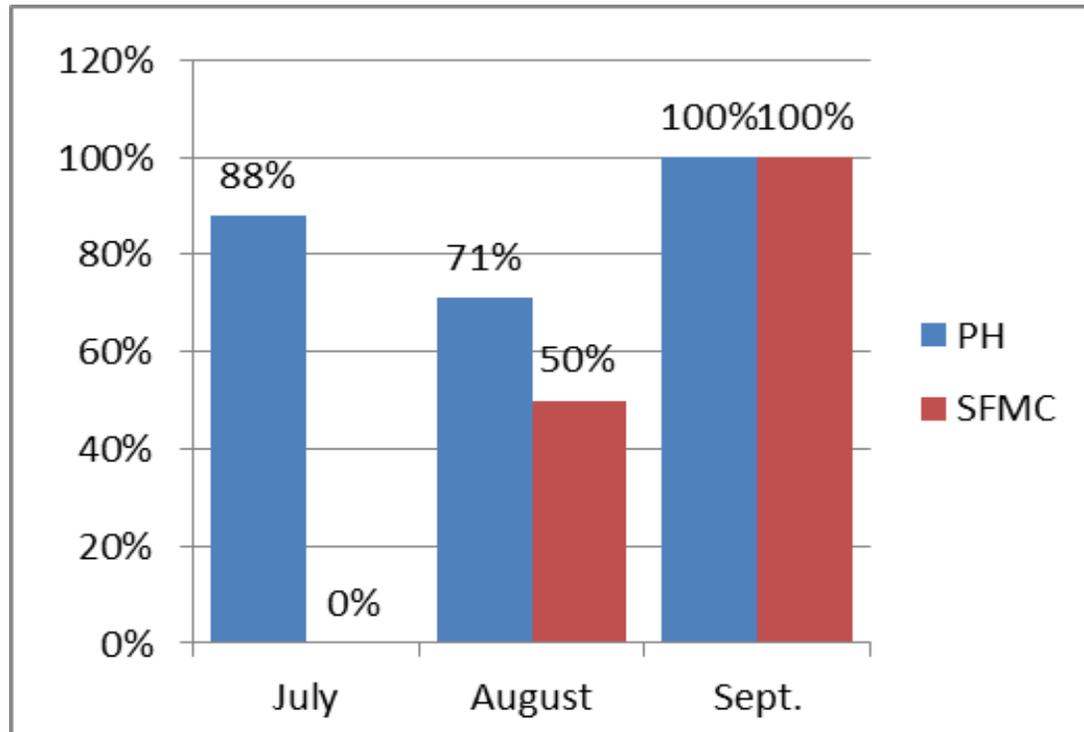
▶ Technology fixes

▶ Training an army

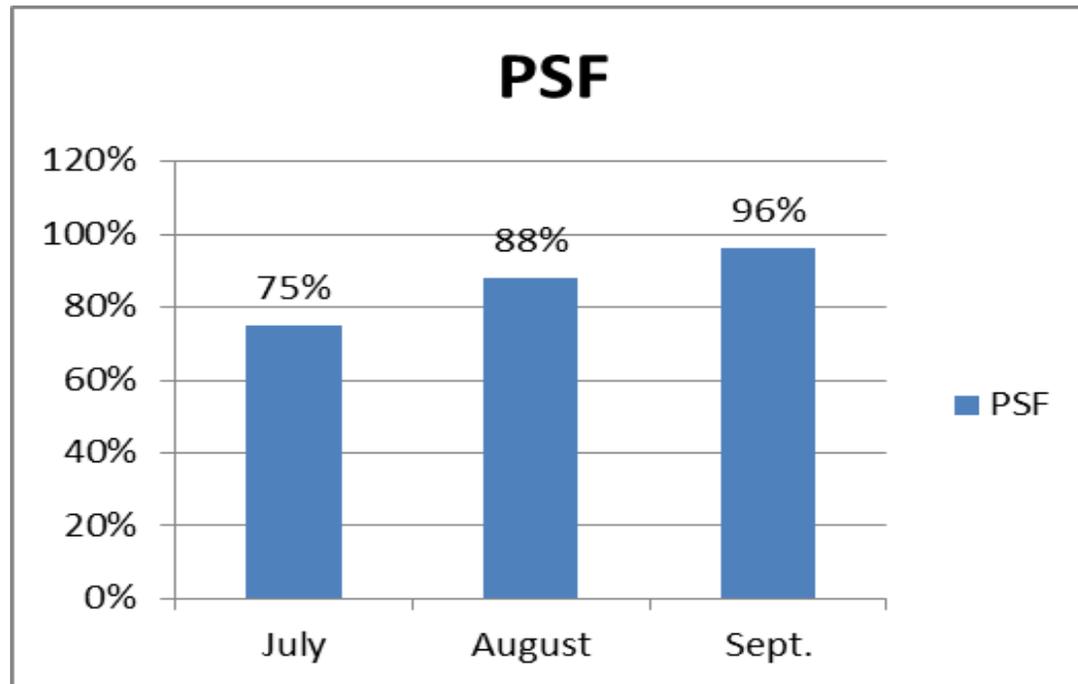
▶ 19 agencies live on same day!



Pulsara STEMI EMS Activation



Pulsara CVA EMS Activation





Benefits

Emergency Departments

- ▶ Pre-register patient information
- ▶ Monitor patient status in care process
- ▶ Monitor arrival time
 - ▶ Using GPS to augment human and equipment utilization
- ▶ Facilitates EMS bypass to CT/cath lab

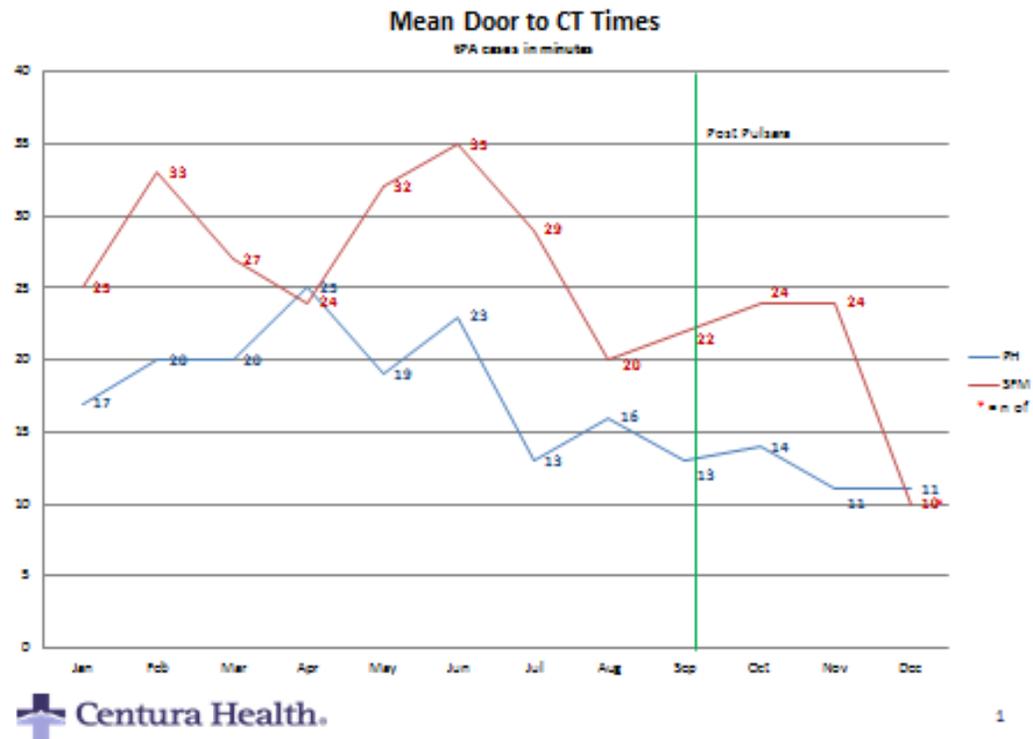
Benefits

Neurosciences (CVA)

- ▶ See patient in field
- ▶ Improves efficiency of personnel and equipment
- ▶ Improves patient flow
- ▶ Decreases time to CT and intervention



Mean Door to CT Times



Benefits

Interventional Cardiology

- ▶ Interventionalist sees EKG
- ▶ Decrease ED time or bypass ED to cath lab
- ▶ Decreased curb to wire time

Benefits to EMS

Emergency Departments

- ▶ Minimal to no cost
- ▶ Eradication of EMS-Hospital discrepancies
- ▶ Easy to use
 - ▶ Little resistance
- ▶ Immediate follow-up feedback

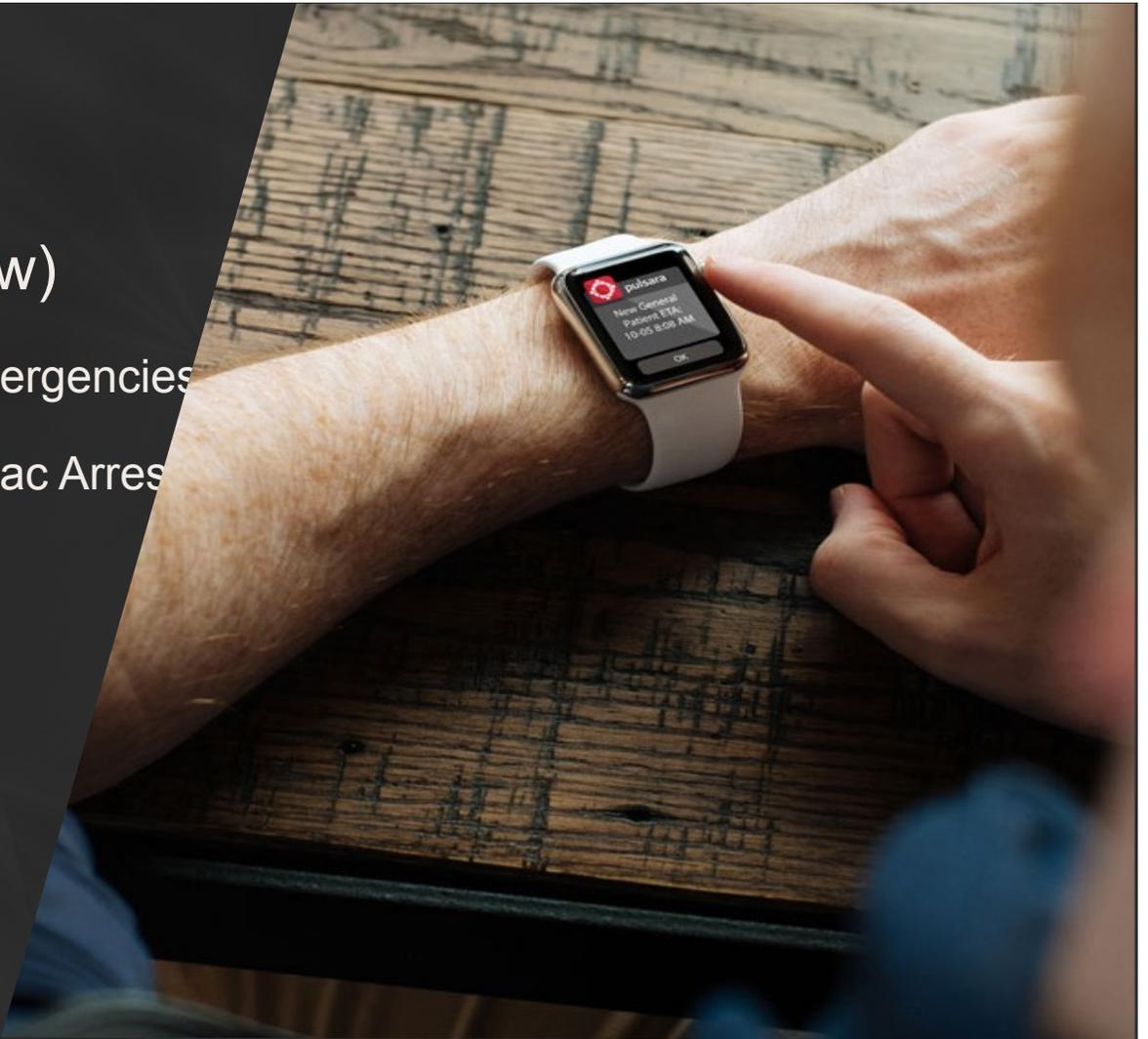
Patient Benefits

Simply...

faster and more efficient care

Future Roadmap

- ▶ General alerts (Now)
- ▶ Other Time Sensitive Emergencies
 - ▶ Trauma, Sepsis, Cardiac Arrest
- ▶ Hospital transfer
- ▶ Live video conferencing
- ▶ Integration into ePCRs



Contacts

Pulsara

[877-903-5642](tel:877-903-5642)

Help@pulsara.com

Stein Bronsky, MD

ebronsky@springsgov.com