



A SAFR Transition

Enhancing Pre-hospital Care Coordination

May 22, 2019

Agenda



1. Intros

2. What is SAFR?

- Functions
- Benefits
- Stats

3. Q&A

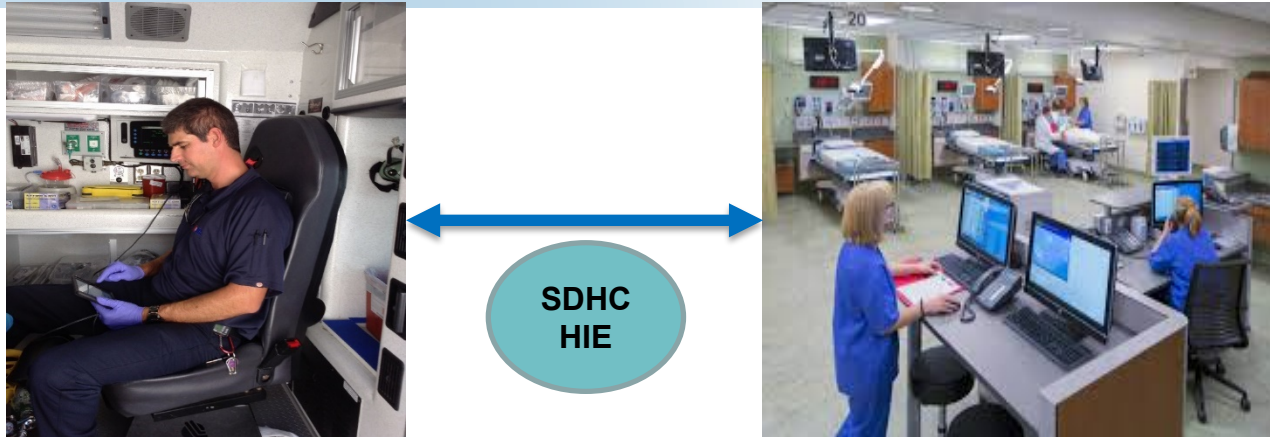


What is SAFR?

1. Functions
2. Benefits
3. Stats

What is SAFR?

Real-time Connection Ambulance to ED



- **SEARCH** – paramedics search HIE pre-hospital
- **ALERT** – real-time data to ED
- **FILE** – electronic submission of medic's report
- **RECONCILE** – hospital to ePCR, eg eOutcomes



FROM A PARAMEDIC'S PERSPECTIVE

S - SEARCH



1. Search for the patient in the HIE

2. Query the HIE for

- **Problems**
- **Meds**
- **Allergies**
- **Encounters**
- ***POLST (future)***



0 Local Records



Inc

Full Name

SDHC SHARED SDHCPATIENT

Hist

Info

Date of Birth

01/01/1956

SSN #

Exam

Resp

Race

VS

PQRS



Same as Incident



Homeless

Resides in Area

RX

CAD

Home Address

Proc

Dspo

City, St, Zip

Narr

MdDv

County, Country

Sig

Att

Driver License

Phone #s

...

Info

Pay

Insu



1

Inc

Info

Resp

PQRS

CAD

Dspo

MdDv

Att

Full Name
SDHC SHARED SDH

Date of Birth
01/01/1956

Race

Same as Incident

Home Address

City, St, Zip

County, Country

Driver License

Phone #s

Info

Pay

Insu

Messages

NEW - Select patient match

Ok

Resides in Area



Hist

Exam

VS

RX

Proc

Narr

Sig

...



Inc

Info

Resp

PQRS

CAD

Dspo

MdDv

Att

Hist

Exam

VS

RX

Proc

Narr

Sig

...

Possible patient matches from SD Health Connect

Full Name

SDHC SHARED SDHC

SDHC SHARED SDHC PATIENT
Male
01/01/1956
838 SEVA DRIVE
SAN DIEGO, CA 92103

Date of Birth

01/01/1956

No match

Race

Same as Incident

Resides in Area

Home Address

City, St, Zip

Ok

County, Country

Driver License

Phone #s

Info

Pay

Insu



0 Local Records



Inc

Hist

Info

Exam

Resp

VS

PQRS

RX

CAD

Proc

Dspo

Narr

MdDv

Sig

Att

...

Full Name

SDHCSHARED SDHCPATIENT

Date of Birth

01/01/1956

SSN #

Race

Same as Incident

in Area

Home Address

City, St, Zip

County, Country

Driver License

Phone #s

PATIENT HISTORY

Retrieving patient history from San Diego Health Connect. This make take a few minutes.

Ok

Info

Pay

Insu



Inc

Info

Resp

PQRS

CAD

Dspo

MdDv

Att

Full Name

SDHC SHARED SDI

Date of Birth

01/01/1956

Race

Same as Incident

Home Address

City, St, Zip

County, Country

Driver License

Ok

Messages

NEW - Previous Encounters
01/31/2017 17:38

NEW - Import patient history



Hist

Exam

VS

RX

Proc

Narr

Sig



Info

Pay

Insu

Phone #s

Resides in Area

-
- 1**
- Inc**
- Info**
- Resp**
- PQRS**
- CAD**
- Dspo**
- MdDv**
- Att**

Full Name
SDHC SHARED SDI

Date of Birth
01/01/1956

Race

Same

Home Address

City, St, Zip

County, Country

Driver License | *Phone #s*

Messages

Previous Encounters
01/31/2017 17:38

NEW - Import patient history

-
- Hist**
- Exam**
- VS**
- RX**
- Proc**
- Narr**
- Sig**
- ...**

PREVIOUS ENCOUNTERS

Poway Women's Care
04/21/2016
Ambulatory

Sharp Rees Stealy
08/25/2015
Outpatient

Sharp Rees Stealy
06/10/2015
Outpatient

Ok



2

Inc

Info

Resp

PQRS

CAD

Dspo

MdDv

Att

Full Name

SDHCSHARED SDI

Date of Birth

01/01/1956

Race

Same as Incident

Home Address

City, St, Zip

County, Country

Driver License

Phone #s

Info

Pay

Insu

Messages

NEW - Previous Encounters
01/31/2017 17:38

NEW - Import patient history

Ok



Hist

Exam

VS

RX

Proc

Narr

Sig

...

Resides in Area

Confirm Current Medications

Select all that still apply

Medication: **metFORMIN hydrochloride 500 MG Oral Tablet**

Medication: **Lisinopril 30 MG Oral Tablet**

Medication: **celecoxib 200 MG Oral Capsule**

Medication: **atorvastatin 10 MG Oral Tablet**

Medication: **Lisinopril 40 MG Oral Tablet**

Medication: **Levothyroxine Sodium 0.088 MG Oral Tablet**

<- Prev

Next ->

Select All

Cancel

POLST Pilot (future for SVMS)

- +** (2)
- Inc**
- Info**
- Resp**
- Prot**
- PQRS**
- Qs**
- Dspo**
- Crew**

***Date/Time**

***Pulse** ***Respirati...**

Cardiac Rhythm

***Blood Pressure**

CO2 & CO **SpO2** **Lun**

***GCS Score** **GCS**

Stroke Scale **Stroke Code Info**

Messages

NEW - POLST form from San Diego Health Connect

NEW - Import patient history

Ok

No

- X**
- Hist**
- Exam**
- VS**
- Rx**
- Proc**
- Narr**
- Sig**
- ...**



EMSA #111 B
(Effective 1/1/2016)*

Physician Orders for Life-Sustaining Treatment (POLST)

First follow these orders, then contact **Physician/NP/PA**. A copy of the signed POLST form is a legally valid physician order. Any section not completed implies full treatment for that section. POLST complements an Advance Directive and is not intended to replace that document.

Patient Last Name:	Date Form Prepared:
Patient First Name:	Patient Date of Birth:
Patient Middle Name:	Medical Record #: (optional)

A Check One	CARDIOPULMONARY RESUSCITATION (CPR): <i>If patient has no pulse and is not breathing.</i> <i>If patient is NOT in cardiopulmonary arrest, follow orders in Sections B and C.</i>
	<input type="checkbox"/> Attempt Resuscitation/CPR (Selecting CPR in Section A requires selecting Full Treatment in Section B) <input type="checkbox"/> Do Not Attempt Resuscitation/DNR (Allow <u>N</u> atural <u>D</u> eath)

B Check One	MEDICAL INTERVENTIONS: <i>If patient is found with a pulse and/or is breathing.</i>
	<input type="checkbox"/> Full Treatment – primary goal of prolonging life by all medically effective means. In addition to treatment described in Selective Treatment and Comfort-Focused Treatment, use intubation, advanced airway interventions, mechanical ventilation, and cardioversion as indicated. <input type="checkbox"/> Trial Period of Full Treatment. <input type="checkbox"/> Selective Treatment – goal of treating medical conditions while avoiding burdensome measures. In addition to treatment described in Comfort-Focused Treatment, use medical treatment, IV antibiotics, and IV fluids as indicated. Do not intubate. May use non-invasive positive airway pressure. Generally avoid intensive care. <input type="checkbox"/> Request transfer to hospital only if comfort needs cannot be met in current location. <input type="checkbox"/> Comfort-Focused Treatment – primary goal of maximizing comfort. Relieve pain and suffering with medication by any route as needed; use oxygen, suctioning, and manual treatment of airway obstruction. Do not use treatments listed in Full and Selective Treatment unless consistent with comfort goal. Request transfer to hospital only if comfort needs cannot be met in current location. Additional Orders: _____

C Check One	ARTIFICIALLY ADMINISTERED NUTRITION: <i>Offer food by mouth if feasible and desired.</i>
	<input type="checkbox"/> Long-term artificial nutrition, including feeding tubes. Additional Orders: _____ <input type="checkbox"/> Trial period of artificial nutrition, including feeding tubes. _____ <input type="checkbox"/> No artificial means of nutrition, including feeding tubes. _____

D	INFORMATION AND SIGNATURES:		
	Discussed with: <input type="checkbox"/> Patient (Patient Has Capacity) <input type="checkbox"/> Legally Recognized Decisionmaker		
	<input type="checkbox"/> Advance Directive dated _____, available and reviewed →		Health Care Agent if named in Advance Directive:
	<input type="checkbox"/> Advance Directive not available		Name: _____
	<input type="checkbox"/> No Advance Directive		Phone: _____
	Signature of Physician / Nurse Practitioner / Physician Assistant (Physician/NP/PA) My signature below indicates to the best of my knowledge that these orders are consistent with the patient's medical condition and preferences.		
	Print Physician/NP/PA Name:	Physician/NP/PA Phone #:	Physician/PA License #, NP Cert. #:
	Physician/NP/PA Signature: (required)		Date:
	Signature of Patient or Legally Recognized Decisionmaker I am aware that this form is voluntary. By signing this form, the legally recognized decisionmaker acknowledges that this request regarding resuscitative measures is consistent with the known desires of, and with the best interest of, the individual who is the subject of the form.		
	Print Name:		Relationship: (write self if patient)
Signature: (required)	Date:	FOR REGISTRY USE ONLY	
Mailing Address (street/city/state/zip):	Phone Number:		

SEND FORM WITH PATIENT WHENEVER TRANSFERRED OR DISCHARGED

*Form versions with effective dates of 1/1/2009, 4/1/2011 or 10/1/2014 are also valid

Benefits of SEARCH



Paramedics

- Search for patients automatically
- Request Problems, Meds, Allergy, Encounters, POLST from all SVMS participants
- Reduces data entry – HIE data loaded into ePCR
- Destination hospital influenced by previous encounters

Patients

- Better chance they will be taken to “their” ED
- Feel like the community is looking out for them

SEARCH Stats – City/UCSD transports

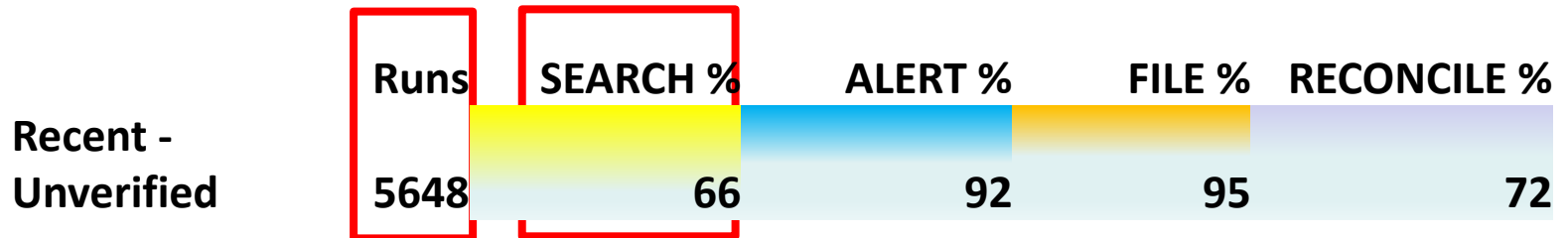


~1400 patient searches/day

>60% exact match

~~~300~~ 450 HIE requests/day (probs, meds, alg, enc)

**New Grant Goal is 50%**



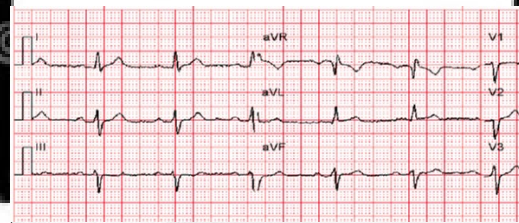
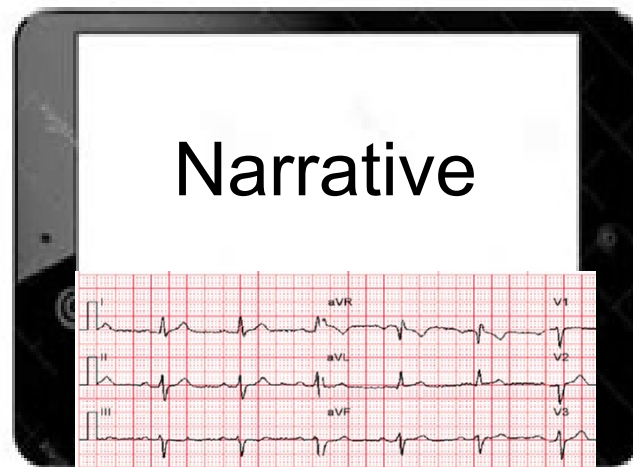


# FROM THE ED'S PERSPECTIVE

**Physicians, nurses, ED Managers...**

# A – ALERT

## Data sent real-time



| Vitals              | HRSP  | Chart Viewer | Patient Worksheet | Commit      | Pat Loc     | Status |
|---------------------|-------|--------------|-------------------|-------------|-------------|--------|
| Vitals/Findings     |       |              |                   |             |             |        |
| Data Includes: All  |       |              |                   |             |             |        |
| Item Name           | Graph | 04 Jan 2011  | 29 Nov 2010       | 27 Oct 2010 | 29 Jun 2010 |        |
| Systolic            |       | 10:18 AM     | 10:12 AM          | 6:27 AM     | 11:37 AM    |        |
| Diastolic           |       |              |                   | 150         | 80          |        |
| Temperature         |       |              |                   | 100         | 20          |        |
| Heart Rate          |       | 96 F         | 99 F              | 99 F        | 98 F        |        |
| Pulse Quality       |       | 68           | 64                | 112         | 80          |        |
| Respiration         |       |              | Normal            | 16          | Norm        |        |
| Respiration Quality |       |              | Normal            | 20          | 20          |        |
| Height              |       | 5 R 5 in     | 5 R 6 in          | 5 R         | 4 R 2 in    |        |
| Weight              |       | 135 lb       | 126 lb            | 100 lb      | 80 lb       |        |
| Head Circumference  |       |              |                   | 18 in       |             |        |
| BMI                 |       | 22.47 kg/m2  | 20.80 kg/m2       | 19.83 kg/m2 | 22.60 kg/m2 |        |
| BSA                 |       | 1.67 m2      | 1.62 m2           | 1.39 m2     | 1.11 m2     |        |

Nov 08

Kent, Superman Text Nov 08 10:00:00 AM (10/08/2010)

| System              | Value | Unit        | Normal Range | Abnormal |
|---------------------|-------|-------------|--------------|----------|
| Respiration         | 16    | breaths/min | 12-20        |          |
| Respiration Quality | 20    |             |              |          |
| Respiration Rate    | 16    | breaths/min | 12-20        |          |
| Respiration Quality | 20    |             |              |          |
| Respiration Rate    | 16    | breaths/min | 12-20        |          |
| Respiration Quality | 20    |             |              |          |
| Respiration Rate    | 16    | breaths/min | 12-20        |          |
| Respiration Quality | 20    |             |              |          |
| Respiration Rate    | 16    | breaths/min | 12-20        |          |
| Respiration Quality | 20    |             |              |          |

Ambulance updates:

1. Narrative
2. EKGs
3. Vital signs





ED Manager (Hillcrest Emergency) - Last Refresh Time: 7/11/2017 8:43:27 AM

Refresh Review Visit My Note Procedure Note Progress Note EKG Orders Discharge Admit Vitals/Pain Results Review A/S Sign Out Handoff Tx Team Comments Tracking Form Reprints EMS Hub Expect Tmp Pt

POD A x33018 (2 of 18 occupied)

| Bed  | New | Patient                | CC              | A | Total Time | RN    | MD | Att    | Tech | Re | Comment |
|------|-----|------------------------|-----------------|---|------------|-------|----|--------|------|----|---------|
| 01   |     | Choctaw, Aka360 (U)    | multiple trauma |   | 358:09     |       |    |        |      | Y  |         |
| 02   |     |                        |                 |   |            |       |    |        |      |    |         |
| 03   |     | Events, Statusesdispos | Weakness        | 3 | 307:30     | NURSE |    | Emerge |      | N  |         |
| 04   |     |                        |                 |   |            |       |    |        |      |    |         |
| 04B  |     |                        |                 |   |            |       |    |        |      |    |         |
| 05A  |     |                        |                 |   |            |       |    |        |      |    |         |
| 05B  |     |                        |                 |   |            |       |    |        |      |    |         |
| 05C  |     |                        |                 |   |            |       |    |        |      |    |         |
| 24   |     |                        |                 |   |            |       |    |        |      |    |         |
| T01  |     |                        |                 |   |            |       |    |        |      |    |         |
| T02  |     |                        |                 |   |            |       |    |        |      |    |         |
| T03  |     |                        |                 |   |            |       |    |        |      |    |         |
| T04  |     |                        |                 |   |            |       |    |        |      |    |         |
| T04A |     |                        |                 |   |            |       |    |        |      |    |         |

POD C x33048 (2 of 9 occupied)

| Bed | New | Patient               | CC                  | A | Total Time | RN | MD | Att | Tech | Re | Comment |
|-----|-----|-----------------------|---------------------|---|------------|----|----|-----|------|----|---------|
| 14A |     |                       |                     |   |            |    |    |     |      |    |         |
| 14B |     | Andrew, Gohappy (M)   | Headache Re-evaluat |   | 983:01     |    |    |     |      | N  |         |
| 15  |     |                       |                     |   |            |    |    |     |      |    |         |
| 16A |     |                       |                     |   |            |    |    |     |      |    |         |
| 16B |     | Hillcrest, Test F (U) |                     |   | 16:24      |    |    |     |      | N  |         |
| 17  |     |                       |                     |   |            |    |    |     |      |    |         |
| 18  |     |                       |                     |   |            |    |    |     |      |    |         |
| 19  |     |                       |                     |   |            |    |    |     |      |    |         |
| 20  |     |                       |                     |   |            |    |    |     |      |    |         |

POD D x33063 (2 of 10 occupied)

| Bed | New | Patient                 | CC                     | A | Total Time | RN | MD | Att | Tech | Re | Comment |
|-----|-----|-------------------------|------------------------|---|------------|----|----|-----|------|----|---------|
| 21  |     |                         |                        |   |            |    |    |     |      |    |         |
| 22  |     |                         |                        |   |            |    |    |     |      |    |         |
| 23  |     |                         |                        |   |            |    |    |     |      |    |         |
| 25  |     | Emshubpatient, Admit    |                        |   | 549:31     |    |    |     |      | N  |         |
| 26  |     |                         |                        |   |            |    |    |     |      |    |         |
| 27  |     |                         |                        |   |            |    |    |     |      |    |         |
| 28  |     | Insulinfive, Donottouch | I need an insulin drip |   | 166:49     |    |    |     |      | Y  |         |
| T08 |     |                         |                        |   |            |    |    |     |      |    |         |
| T09 |     |                         |                        |   |            |    |    |     |      |    |         |
| T10 |     |                         |                        |   |            |    |    |     |      |    |         |

Triage (1 of 9 occupied)

| Bed    | New | Patient              | CC         | A | Total Time | RN | MD | Att | Tech | Re | Comment |
|--------|-----|----------------------|------------|---|------------|----|----|-----|------|----|---------|
| TRIAGE |     | Cadence, Dragonfruit | chest pain |   | 1316:58    |    |    |     |      | N  |         |
| TRIAGE |     |                      |            |   |            |    |    |     |      |    |         |
| TRIAGE |     |                      |            |   |            |    |    |     |      |    |         |
| TRIAGE |     |                      |            |   |            |    |    |     |      |    |         |

OTF & ED to Trauma TXFR (0 of 36 occupied)

| Bed | New | Patient | CC | A | Total Time | RN | MD | Att | Tech | Re | Comment |
|-----|-----|---------|----|---|------------|----|----|-----|------|----|---------|
| HOD |     |         |    |   |            |    |    |     |      |    |         |

**Current Staff (11)**

**Attending**  
 Abbott, Joel E, DO  
 Ed Stage Two, Attending Physician  
**Emergency, Attending (Ucsd), MD**  
 Killeen, James Patrick, MD  
 Ratigan, Emmett David, MD

**ED Tech**  
 Ed Stage Two, Tech  
 Emergency, Tech (Ucsd)

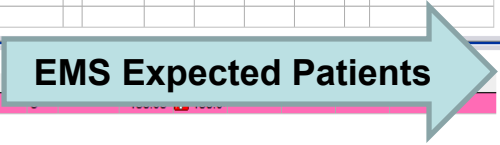
**ED Charge Nurse**  
 Boerner, Laura, RN

**ED Float**  
 Ed Stage Two, Registered Nurse

**Registered Nurse**  
 Aaro, Julie, RN  
 Emergency, Nurse (Ucsd), RN

WAITING (1)

| Patient            | New | CC             |
|--------------------|-----|----------------|
| Zzasap, Titeam (M) |     | Abdominal Pain |



EXPECTED (5)

| PATIENT                | CC | Exp | Temp? | Ext Ref | Txfr from | Time in Exp. | Unit # | Flags | Run # |
|------------------------|----|-----|-------|---------|-----------|--------------|--------|-------|-------|
| Emshubpatient, One (M) |    |     |       |         |           | 306:39       |        |       | 77778 |
| Emshubpatient, Two (M) |    |     | Y     |         |           | 306:38       |        |       | 66668 |
| Unknown, Ems (M)       |    |     | Y     |         |           | 00:00        |        |       | 20170 |
| Unknown, Ems (M)       |    |     | Y     |         |           | 00:00        |        |       | 20170 |
| Unknown, Ems (U)       |    |     | Y     |         |           | 00:00        |        |       | 1855E |



Unknown, Ems  
Age unknown, Unknown  
MRN: 80000754  
CSN: 33000005732

CC: None  
Last HT: None  
Last WT: None  
Last BMI: None  
Allergies: Unknown: Not on File  
Code: Not on file  
Iso: None  
Infection: None  
FYIs: None  
Attending: None  
MyChart: Inactive  
PCP: None  
PCR: None  
Visit Cvg: None  
LOS: 0 (H:0 E:0)  
Temp: None  
HR: None  
Resp: None  
BP: None  
O2: None  
Pref Language...

- Review Visit
- Snapshot
- Summary
- Chart Review
- Results Review
- History
- My Note
- Progress Note
- Procedure Note
- Observation
- EKG Note
- Manage Orders
- DC/Transfer
- Admit
- Arrival
- Customize
- More

- REVIEW
- MD First Touch
- Triage Summary
- Allergies
- Home Medications
- History
- Care Everywhere

### MD First Touch

Time taken: 0847 7/11/2017 Values By:

#### MD First Touch

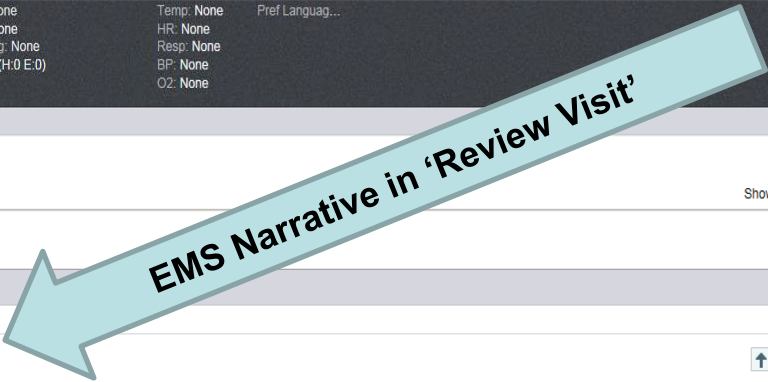
#### MD Core Measure

MD First Touch  Patient seen by MD at time entered above

Restore Close F9 Cancel

Show: Row Info Last Filed All Choices

Previous F7 Next F8



#### Triage Summary

**Unknown, Ems #80000754 (Acct:N/A) (-- U) PCP: None**

#### EMS Hub Vitals

| Date and Time | Temperature | Temperature Method | Systolic Blood Pressure | Diastolic Blood Pressure | Method of blood pressure measurement | Pulse Rate      | Pulse Rhythm | Pulse Oximetry | Cardiac Rhythm | Who |
|---------------|-------------|--------------------|-------------------------|--------------------------|--------------------------------------|-----------------|--------------|----------------|----------------|-----|
| 03/09/17 1457 | 36.6 C      | Oral               | 105 mm [Hg][            | 65 mm[Hg][               | Cuff-Automated                       | 60 beats/minute | Regular      | 96 Unit%       | --             | EOE |

#### EMS Vitals Cont.

| Date and Time | Respiratory Rate  | Respiratory Effort | Level of Responsiveness | Blood Glucose Level | Carbon Dioxide | Revised Trauma Score | Who |
|---------------|-------------------|--------------------|-------------------------|---------------------|----------------|----------------------|-----|
| 03/09/17 1457 | 15 breaths/minute | Normal             | Alert                   | 60                  | --             | --                   | EOE |

#### EMS Hub Narrative

EMS Narrative filed by EPIC ELECTRONIC INTERFACE at 3/14/2017 10:56 AM

Author: EPIC ELECTRONIC INTERFACE Service: (none) Author Type: Resource  
Filed: 3/14/2017 10:56 AM Date of Service: 3/14/2017 10:56 AM Status: Addendum

Editor: Electronic Interface To Epic, Ancillary System  
Related Notes: Original Note by Electronic Interface To Epic, Ancillary System filed at 3/9/2017 3:14 PM

Primary Impression: Headache- HA;  
Date/Time of Assessment: 03/09/2017 14:57;

Crew: Neil Pena; Date/Time: 03/09/2017 14:58; Prior Care: No; Medication  
Given: Aspirin; Route: Oral (PO); Dosage: 500; Units: Milligrams; Response:  
Improved; Complication: None;

CC:

HPI:

Provider's Primary Impression: Headache  
Triage: Responder: [unclear] [unclear] (Score)



**Unknown, Ems**  
 Age unknown, Unknown  
 MRN: 80000754  
 CSN: 33000005732

CC: None  
 Last HT: None  
 Last WT: None  
 Last BMI: None

**Allergies: Unknown: Not on File**  
 Code: Not on file  
 Iso: None  
 Infection: None

FYIs: None  
 Attending: None  
 MyChart: Inactive

PCP: None  
 PCR: None  
 Visit Ctg: None  
 LOS: 0 (H:0 E:0)

Temp: None  
 HR: None  
 Resp: None  
 BP: None  
 O2: None

Pref Language...

- SnapShot
- Summary
- Chart Review
- Results Review
- History
- Review Visit
- My Note
- Progress Note
- Procedure Note
- Observation
- EKG Note
- Manage Orders
- DC/Transfer
- Admit
- Arrival
- Customize
- More

**Chart Review**

Encounters SnapShot Labs Imaging Surg/Anes Procedures Meds **Notes/Trans** Cardiology Other Orders LDAs Media Adv. Care Planning Episodes Letters Consents Admin Referrals Misc Reports

Preview Refresh (8:49 AM) Select All Deselect All Review Selected Route Bookmark Load Remaining

Filters Exclude Operative Notes Prov Notes

| Bool | Filed Date        | Enc Date | Enc Type | Note Type     | Status   | Author          | Author Type | Department      | Service |
|------|-------------------|----------|----------|---------------|----------|-----------------|-------------|-----------------|---------|
|      | 03/14/2017 10:... | 3/9/2017 | ED       | EMS Narrative | Adden... | EPIC ELECTRO... | Resource    | HC EMERGENCY... |         |

**EMS Narrative in "Chart Review"**

**EMS Narrative** Date of Service: 3/14/2017 10:56 AM

**EPIC ELECTRONIC INTERFACE**

Primary Impression: Headache- HA;  
 Date/Time of Assessment: 03/09/2017 14:57;

Crew: Neil Pena; Date/Time: 03/09/2017 14:58; Prior Care: No; Medication Given: Aspirin; Route: Oral (PO); Dosage: 500; Units: Milligrams; Response: Improved; Complication: None;

CC:

HPI:  
 Provider's Primary Impression: Headache  
 Initial Patient Acuity: Lower Acuity (Green)

Alert:  
 Patient Care Report Number: 1855  
 Incident Number: EM14143814  
 EMS Vehicle (Unit) Number: 2058  
 EMS Unit Call Sign: AMB 058  
 Level of Care of This Unit: ALS-Paramedic  
 Incident Street Address: 5340 North Jazmin St SE #200  
 Incident City: 1661377  
 Incident ZIP Code: 92101

Assessment:

Procedure - Arrest:

Procedure - Exam:

Procedure - Injury:

Procedure - Airway:

Procedure - Medications:  
 Date/Time Medication Administered: 2017-03-09T14:58:00-08:00



**Unknown, Ems**  
 Age unknown, Unknown  
 MRN: 80000754  
 CSN: 33000005732

CC: None  
 Last HT: None  
 Last WT: None  
 Last BMI: None

**Allergies: Unknown: Not on File**  
 Code: Not on file  
 Iso: None  
 Infection: None

FYIs: None  
 Attending: None  
 MyChart: Inactive

PCP: None  
 PCR: None  
 Visit Cvg: None  
 LOS: 0 (H:0 E:0)

Temp: None  
 HR: None  
 Resp: None  
 BP: None  
 O2: None

Pref Language...

Chart Review

Encounters SnapShot Labs Imaging Surg/Anes Procedures Meds Notes/Trans **Cardiology** Other Orders LDAs Media Adv. Care Planning Episodes Letters Consents Admin Referrals Misc Reports

Preview Refresh (8:47 AM) Select All Deselect All Review Selected ECG Comparison Route  
 Filters Hide Cancelled Echo/TEE EKG 24 Hour BP Holter/Event Monitor Angiograms EP/ Pacemaker Eval

| Date       | Description    | Status       | Provider                  | Order#    |
|------------|----------------|--------------|---------------------------|-----------|
| 03/09/2017 | EMS EKG REPORT | Final result | EPIC ELECTRONIC INTERFACE | 126354189 |

Full 12 Lead EKG in Real-Time

Results EMS EKG REPORT (Order 126354189)

Allergies Not on File

3/9/2017 3:15 PM - EKG **Click on Link for EKG**

Scans on Order 126354189  
 Scan on 3/9/2017 4:15 AM

Lab and Collection  
 EMS EKG REPORT on 3/9/2017

Linked Media  
 Scan on 3/9/2017 4:15 AM

Order-Level Documents - 03/09/2017:  
 Scan on 3/9/2017 4:15 AM

EMS EKG REPORT [EMS01] (Order 126354189)

Date and Time: 3/9/2017 4:15 AM Department: Hillcrest Emergency Ordering/Authorizing: EPIC ELECTRONIC INTERFACE

Patient Information

|                         |         |                 |          |              |
|-------------------------|---------|-----------------|----------|--------------|
| Patient Name            | Sex     | AGE             | Priority | Order Status |
| Unknown, Ems (80000754) | Unknown | No DOB on File. | (none)   | Completed    |

Priority and Order Details

Electronic Signatures

|                              |                               |
|------------------------------|-------------------------------|
| Electronically Authorized By | Electronically Ordered By     |
| EPIC ELECTRONIC INTERFACE    | Electronic Interface To Epic, |





**Unknown, Ems**  
 Age unknown, Unknown  
 MRN: 80000754  
 CSN: 33000005732

CC: None  
 Last HT: None  
 Last WT: None  
 Last BMI: None

**Allergies: Unknown: Not on File**  
 Code: Not on file  
 Iso: None  
 Infection: None

FYIs: None  
 Attending: None  
 MyChart: Inactive

PCP: None  
 PCR: None  
 Visit Cvg: None  
 LOS: 0 (H:0 E:0)

Temp: None  
 HR: None  
 Resp: None  
 BP: None  
 O2: None

Pref Language...

- Snapshot
- Summary
- Chart Review
- Results Review
- History
- Review Visit
- My Note
- Progress Note
- Procedure Note
- Observation
- EKG Note
- Manage Orders
- DC/Transfer
- Admit
- Arrival
- Customize
- More

Chart Review

Encounters Snapshot Labs Imaging Surg/Anes Procedures Meds Notes/Trans **Cardiology** Other Orders LDAs Media Adv. Care Planning Episodes Letters Consents Admin Referrals Misc Reports

Preview Refresh (8:47 AM) Select All Deselect All Review Selected ECG Comparison Route

Filters Hide Cancelled

Scan on: 3/9/2017 by: of

03/09/2017 EMS

Keep viewer on top Best fit

**ZOLL® E Series® Defibrillator 12-Lead Report**  
 10:52:26 01 NOV 13

PATIENT NAME: SF  
 PATIENT ID: 201311011051  
 PATIENT AGE: 41  
 PATIENT SEX: Male

Vent Rate: 68  
 P Duration: 126 ms  
 PR Interval: 206 ms  
 QRS Duration: 106 ms  
 QT/QTc: 380/404 ms  
 P-R-T Axis: 56 -38 29

Normal sinus rhythm  
 Left axis deviation  
 Abnormal ECG  
 \*\*\* Unconfirmed \*\*\*

DEVICE ID: AMR SDC SPR  
 RECORDED: 10:52:26 01 NOV 13

10:52:26 01 NOV 13

Zoom 100% Click and drag to zoom. Right click for more options.

Full 12 Lead EKG in Real-Time

EMS EKG REPORT (Order 126354189)

Cardiology System

126354189)

Cardiology Procedures  
 Authorizing: EPIC ELECTRONIC INTERFACE

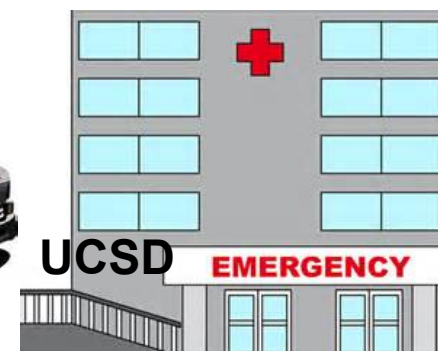
Order Details  
 Order Status Completed

Electronically Authorized By EPIC ELECTRONIC  
 Electronically Ordered By Electronic Interface to Epic,

# We Made a Difference



**16 minutes arrival  
to cardiac stenting!**  
**(door to needle)**



# Benefits of ALERT



## ED

- Real-time information displayed in ED EMR
- Better care, cardiac stent example
- Reduction in data entry
- Cost reductions

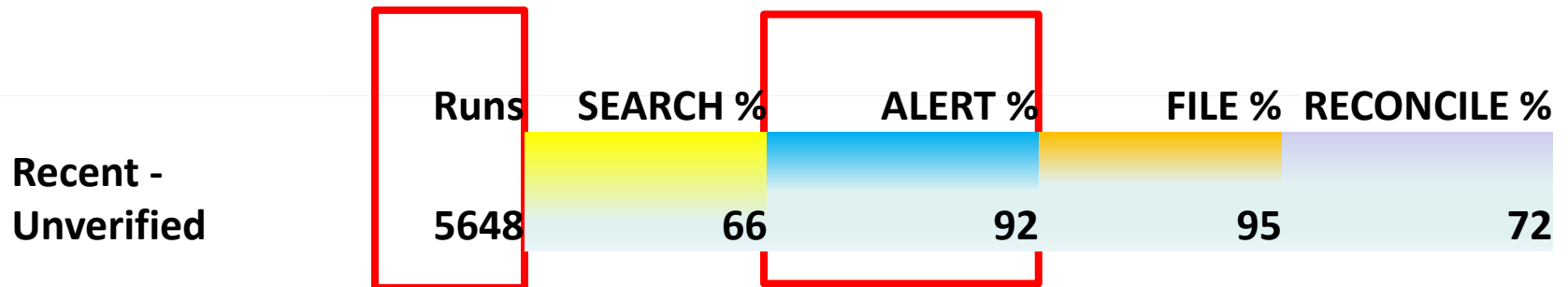
## Paramedics

- Less verbal communication
- No more photos of EKGs sent to ED



# Alert Stats – City/UCSD transports

**New Grant Goal is 80%**



## Quote



“the data is here,  
where is the patient?”



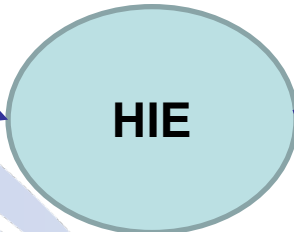
# FROM THE PARAMEDIC'S AND ED'S PERSPECTIVE

**FILE**

# F - FILE



i.e. PCR





**Unknown, Ems**  
 Age unknown, Unknown  
 MRN: 80000754  
 CSN: 33000005732

CC: None  
 Last HT: None  
 Last WT: None  
 Last BMI: None

**Allergies: Unknown: Not on File**  
 Code: Not on file  
 Iso: None  
 Infection: None

FYIs: None  
 Attending: None  
 MyChart: Inactive

PCP: None  
 PCR: None  
 Visit Cvg: None  
 LOS: 0 (H:0 E:0)

Temp: None  
 HR: None  
 Resp: None  
 BP: None  
 O2: None

Pref Language...

Chart Review

Encounters SnapShot Labs Imaging Surg/Anes Procedures Meds Notes/Trans Cardiology Other Orders LDAs **Media** Adv. Care Planning Episodes Letters Consents Admin Referrals Misc Reports

Preview Refresh (8:48 AM) Select All Deselect All Review Selected Lab Flowsheet Flowsheet Apply Default Sorting ECG Comparison Financial View/Play Load Remaining OnBase Documents

Filters Adv Dir/POLST/COAST

| Import Date/Time | Document Type        | Description | Enc Date   | Comment | File Attached to              |
|------------------|----------------------|-------------|------------|---------|-------------------------------|
| 03/09/2017 15:03 | Electronic EMS Ru... |             | 03/09/2017 |         | 03/09/2017 Hospital Encounter |

Document on: 3/9/2017 by: of:

Patient Name: ,

**Prehospital Patient Record**

WATER  
 1748 San Diego Avenue  
 San Diego, California 92110

Incident Date: Unit: AMB 058 CAD #: EM14143814 QCS #: Base:

**Patient Information**

**Provider Impression**

Primary Impression: Headache- HA Primary Symptom:

Secondary Impressions:

**Narrative**

**Summary of Events**

Primary Impression: Headache- HA;  
 Date/Time of Assessment: 03/09/2017 14:57;

Crew: Neil Pena; Date/Time: 03/09/2017 14:58; Prior Care: No; Medication Given: Aspirin; Route: Oral (PO); Dosage: 500; Units: Milligrams; Response: Improved; Complication: None;

**Patient Vitals**

| Time  | B / P    | HR | T*   | RR | Effort | Left Lung | Right Lung | SpO2 / Qualifier | EtCO2 | GCS | Pain | CVA Scale | BG |
|-------|----------|----|------|----|--------|-----------|------------|------------------|-------|-----|------|-----------|----|
| 14:57 | 105 / 65 | 60 | 36.6 | 15 | Normal | Clear     | Clear      | 96 /             |       | 15  |      | Negative  | 60 |

**Medications Administered**

| Time  | Meds    | Dose           | Route     | Crew | Auth | Response | PTA |
|-------|---------|----------------|-----------|------|------|----------|-----|
| 14:58 | Aspirin | 500 Milligrams | Oral (PO) | NP   |      | Improved | No  |

**Procedures**

| Time  | Skills                 | Size | Success | Crew | Auth          | Response  | PTA |
|-------|------------------------|------|---------|------|---------------|-----------|-----|
| 14:57 | Blood/Glucose Analysis |      | Yes     | NP   | Protocol (SO) | Unchanged | No  |
| 14:57 | Pulse Oximetry         |      | Yes     | NP   | Protocol (SO) | Unchanged | No  |

**Injury**

**Media Information** File: IC-ucsd-tst-4664153.PDF

**File Link**  
[Document on 3/9/2017 3:03 PM](#)

**Key Information**

| Document ID             | File Type | Document Type            | Description |
|-------------------------|-----------|--------------------------|-------------|
| IC-ucsd-tst-4664153.PDF | Document  | Electronic EMS Run Sheet |             |

**Import Information**

| Attached At     | Date     | Time    | User | Dept |
|-----------------|----------|---------|------|------|
| Encounter Level | 3/9/2017 | 3:03 PM |      |      |

**Encounter**  
 Hospital Encounter on 3/9/17

Click on Link for Full Report

Full EMS Report in Chart Review

## Benefits of File



### **SAFR vs Verbal TOC Communication (Medics)**

- Reduction in time
- Improvement in accuracy

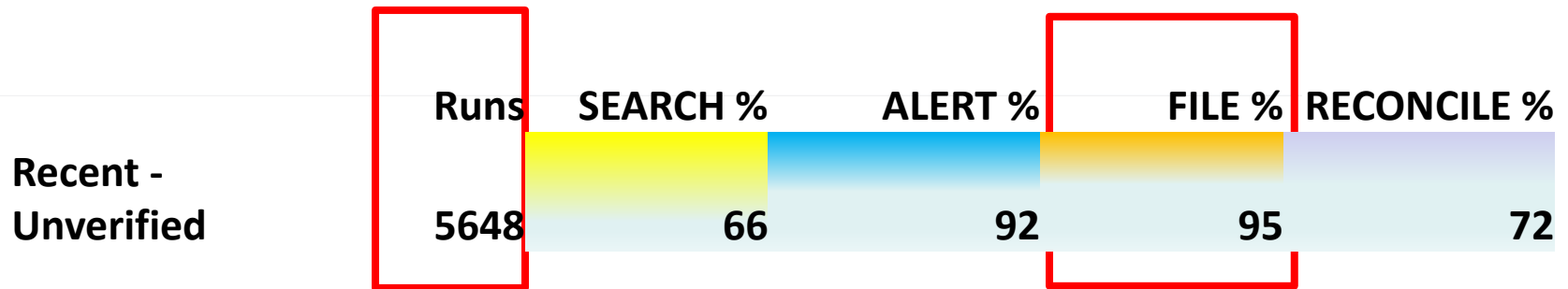
### **SAFR vs Verbal TOC Communication (ED staff)**

- Ditto
- “PCR” report is in EMR earlier for viewing by all
- No faxing, scanning, uploading required
- Earlier decision making, better outcomes

# FILE Stats – City/UCSD transports



**New Grant Goal is 40%**

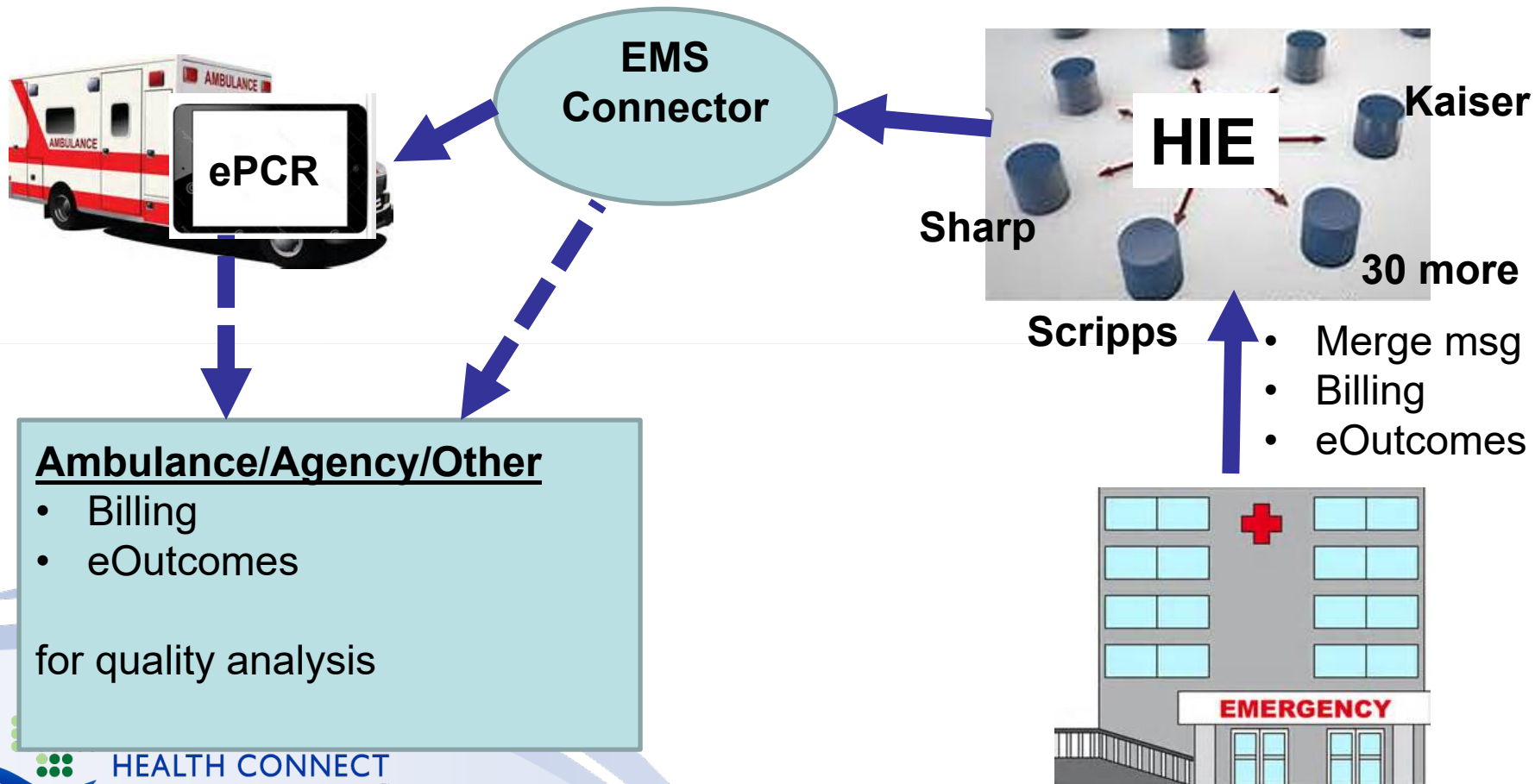




# FROM THE PARAMEDIC'S AND AGENCY'S PERSPECTIVE

## RECONCILE

# R - RECONCILE



# Benefits of RECONCILE and FILE



## Agency

- Clean demographics, billing, eOutcomes
- Reduces billing times

**Paramedic satisfaction, eg timely ED Disposition**

**UCSD ED Study: FILE & RECONCILE cost savings**

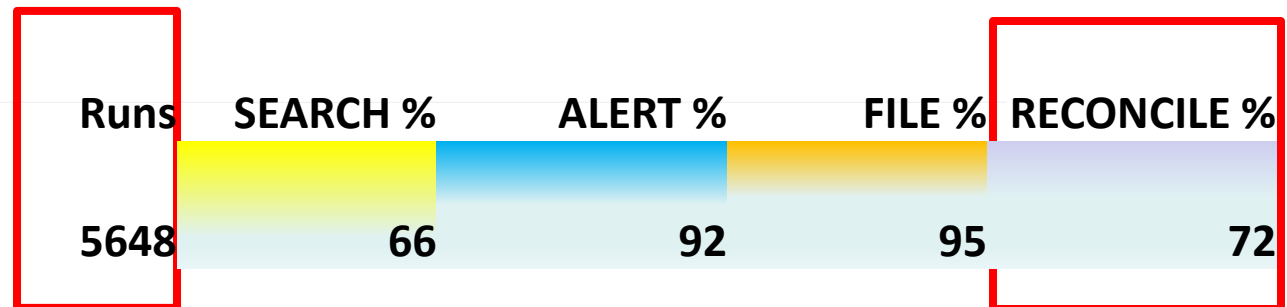
not having to prep & scan prehospital EMS reports and revenue reversals due to late/missing EMS documentation of nearly **\$230,000 annually**.

# RECONCILE Stats – City/UCSD transports



**New Grant Goal is 40%**

Recent -  
Unverified



# Agenda



## 1. Intros

## 2. What is SAFR?

- Functions
- Benefits
- Stats

## 3. Q&A