

## CADDIE PROJECT PHASE II





## MOVE TO BASE HOSPITAL JULY 2021



## Centralized Ambulance Destination Determination for low acuity 911 transports

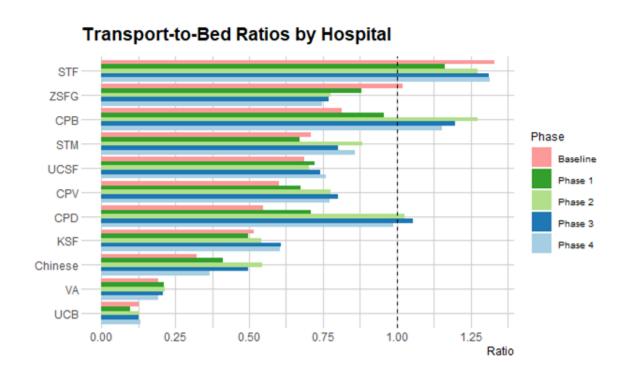
- Objectives of the project:
- Improve patient distribution by matching patient need to hospital capacity
  - Decrease surge events, improve diversion rates, keep patients in medical homes
- Improve EMS system efficiency
  - Improve ambulance patient offload times and decrease interfacility transfers
- Improve EMS system resiliency (improve ICU, Mclass bytton) PULATION HEALTH DIVISION SAN FRANCISCO DEPARTMENT OF PUBLIC HEALTH

## CADDie project history

- Initially designed as a 2 week pilot during CPMC hospital changes 2019
- Added to the EMS system surge plan to preserved ED capacity Apr 2020
- Improved use of Chinese hospital and SEHC Field Care Clinic
- Modifications during the course of the program to move from recommended destination to required, and added ICU capacity and 5150 patient destinations
- Current evaluation based only on EMS data
- Moderate and long term solutions in development

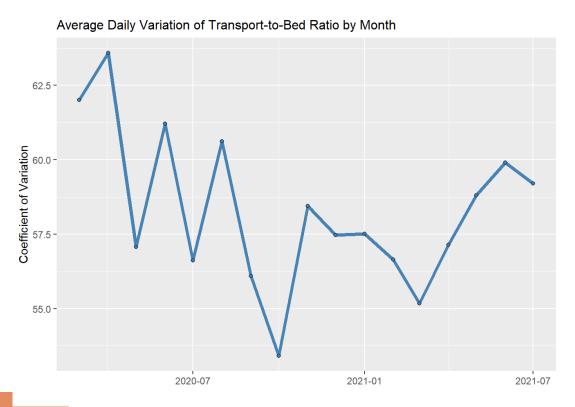


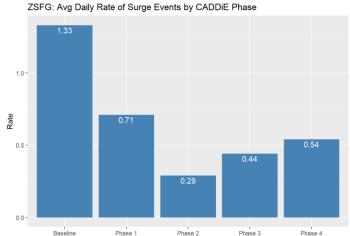
### CADDie project results

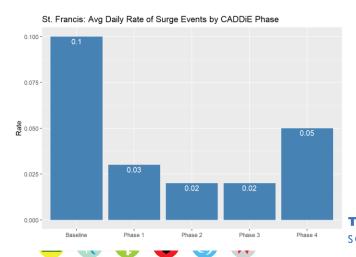


- •Improved distribution of patients to approach desired ratio of 1.00 daily 911 EMS transports per ED bed
- Decreased surge events
- •Had no effect on ambulance diversion
- •Had no effect on Ambulance Patient Offload times

## Decreases in EMS surge events



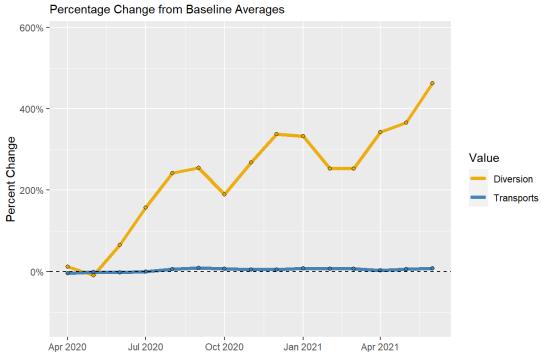




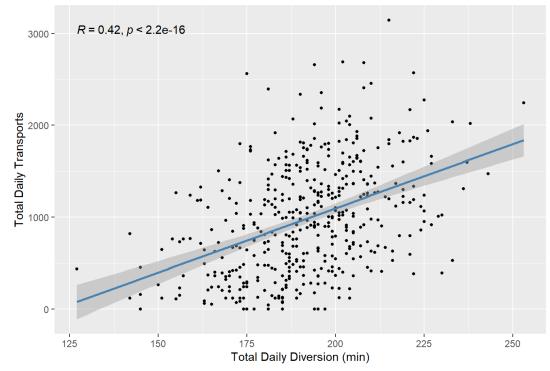


### **Ambulance Diversion**

### Total System Diversion vs. Transports



#### Correlation: Total System Diversion and Transport Volume





# Destination match for patient "Medical Homes"

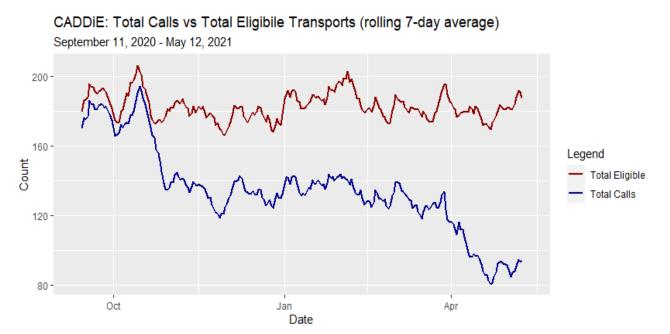
Convenience sample Oct 2020 0700 to 1900 on a Saturday 114 total calls 108 destination requested (95%) 89 went to requested facility (82%) 92 stayed within med home (85%) No diversion events

Health Care System	Request/Arrived at Med Home	Percent Match
СРМС	27/24	89 %
Kaiser	9/9	100 %
CommonSpirit Health	17/15	88 %
UCSF	18/17	94%
Chinese Hospital	4/4	100%
VAMC	1/1	100%
SFGH	32/22	69%
No Destination Request	6	NA
Total	108/92	85%



## CADDie system issues

- Provider compliance
- Provider dissatisfaction
- Destination changes
- Patient resistance
- Evaluation challenges
- Cost





### CADDie project further evaluation

- Increase data collection on medical homes/compliance and 5150 patient destinations
- Add hospital throughput data for comparisons
- Evaluate new hours and staffing paradigm
- Survey hospital staff on CADDie program



## Next steps

- Utilize Staffing paradigm for more data collection
- Continue/expand data collection and analysis to determine patient and economic impact
- Eventual transfer of function to 911 dispatch center with RN triage (target date December 2022)
- Initiate review/evaluation of ambulance destination and diversion policies

