## Examining potential safety concerns secondary to deficits in system integration in a public specialty mental health clinic

#### What we know

- Patients with severe mental illness have high rates of co-occurring health condition<sup>1</sup>
- Integrated care may improve health outcomes for SMI patients.
- San Mateo Health have many EHRs across system with poor integration. (Chart 1)
- In previous studies:
- 72% of behavioral health records correctly identified a patient's medical home even if they have ICM<sup>2</sup>
- Only 68% of psychiatric medications were acknowledged by the primary care provider at next visit following a psych visit<sup>3</sup>

### What we want to know

- Are psychiatrist recording all the medications documented by PCP at a psychiatric intake?
- Do patient's allergies match across different EHRs?
- Evaluate provider usage of San Mateo Health Information Exchange (HIE), a system that integrates information from different EHRs

### What we did

- Mixed study design: retrospective chart review & provider satisfaction survey about HIE
- Setting: South County Clinic is an adult specialty mental health clinic in San Mateo, CA
- Study groups: medications (n=13), allergies (n=38), HIE Survey Response n= 22
- Analysis: matching record = ALL medications or allergies are listed in EHRs being compared



#### What we found

- 8% of patients' psych intake noted all medications that were on their PCP note (Figure 1)
- 13% of patients had allergies that matched across four EHRs (Figure 2, Table 1)
- 77% of providers have heard of HIE but only 41% have used it and 9% have
- used it within the last 3 months; majority reported that HIE was not helpful
- Found an excessive amount of Tylenol allergies in data, suspect system error.

# What does this mean for our system

- Poor information continuity between different EHRs have the potential to cause harm.
- Previous solutions (e.g., HIE) invested by the County have not been helpful
- Lack of provider training and technical constraints may contribute to the issue
- Limitations of our study include small sample size and use of data from only one clinic
- Moving to a more integrated EHR may improve information exchange, safety, and delivery of care
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