

# Systematic Screening for Social Determinants of Health: Implementation and Outcomes in the Inpatient Setting

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### Background

- Patients with complex social needs account for a dramatic percentage of overall healthcare costs<sup>1</sup>
- The shift towards value-based payment has made addressing these social needs a top priority in order to provide higher quality, lower cost healthcare<sup>2</sup>
- Prior studies have shown that interventions targeting social needs (housing, food, transportation) can decrease hospitalizations and ED visits<sup>2,3</sup>
- However, most MD's do not routinely ask patients about their financial/social situations and only provide resources (eg. social work) when obvious barriers are encountered

## Objective

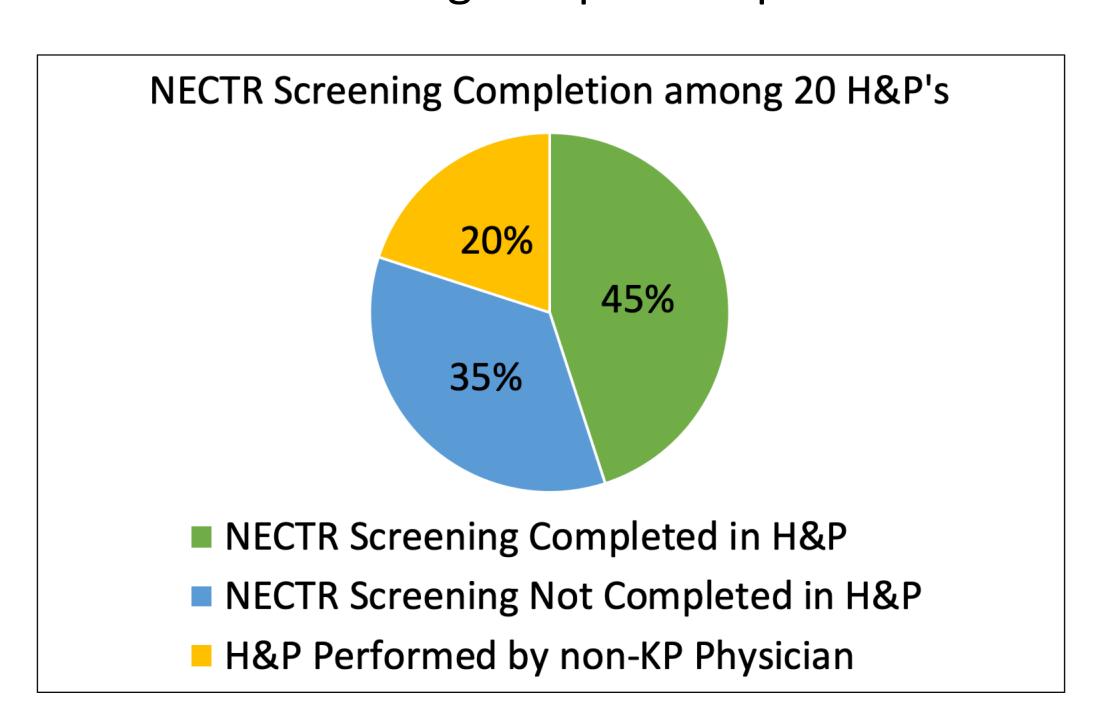
Kaiser Permanente (KP) hospitalists at Memorial Hospital Central (MHC) will systematically screen for social determinants of health using the NECTR screening tool in 75% of new patient H&P's, with the end goal of improving patient outcomes.

#### Methods

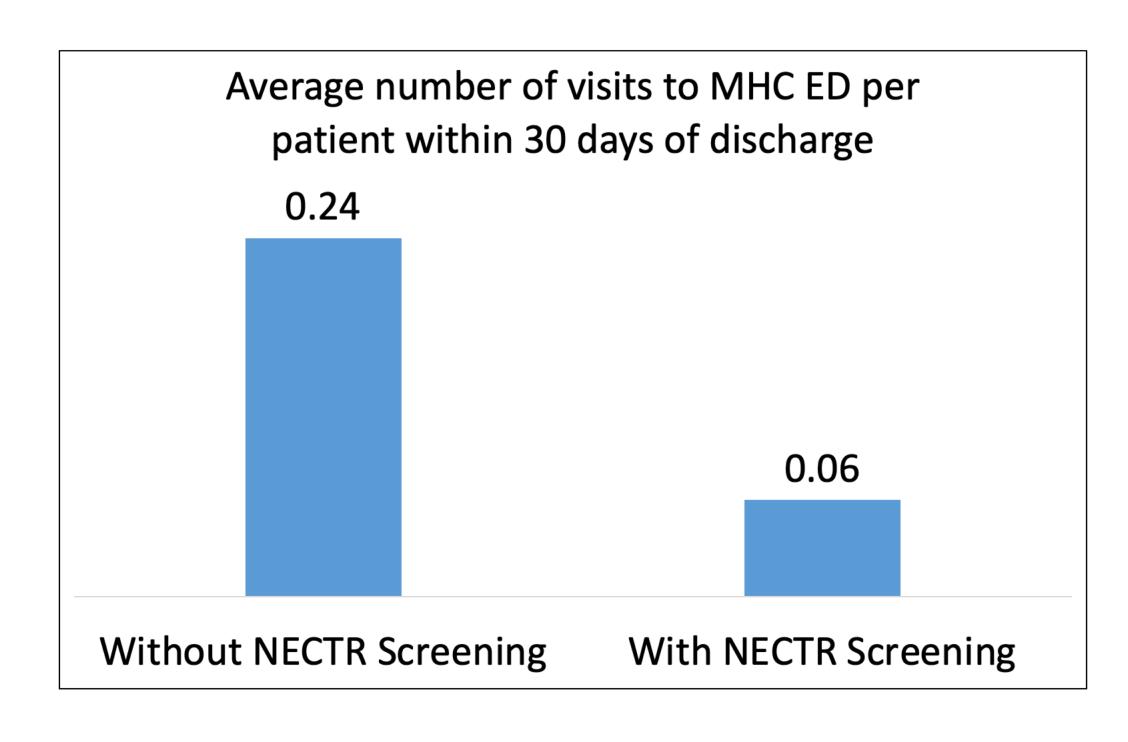
- 1. KP hospitalist team met & agreed to utilize the NECTR screening questions when completing H&P's for patients being admitted to MHC starting October 15, 2019
  - KP hospitalists were advised to consult social work if any needs were encountered
- 2. NECTR screening questions were added to the KP electronic H&P template
  - <u>Nutrition support, Exercise and socialization, Caregiver support, Transportation, Resources/finances</u>
- 3. Retrospective electronic chart review compared the following variables for patients Nov-Dec 2018 (without NECTR screening) versus Nov-Dec 2019 (with NECTR screening)
  - Length of stay
  - Number of MHC ED visits within 30 days of discharge
  - Readmission to MHC within 30 days of discharge
- 4. Audit of 20 random H&P's from KP hospitalist patients at MHC Nov-Dec 2019 performed to assess NECTR completion rate

#### Results

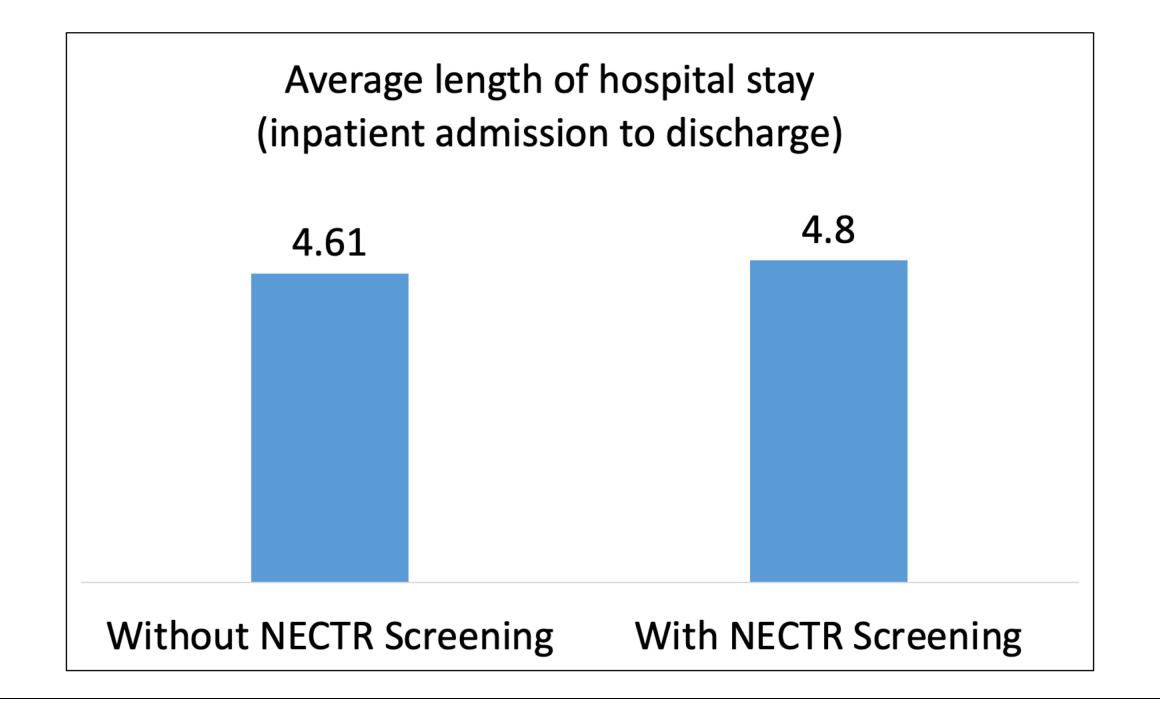
Finding #1: Only 45% of patients discharged by KP hospitalist team had NECTR screening completed upon admission.



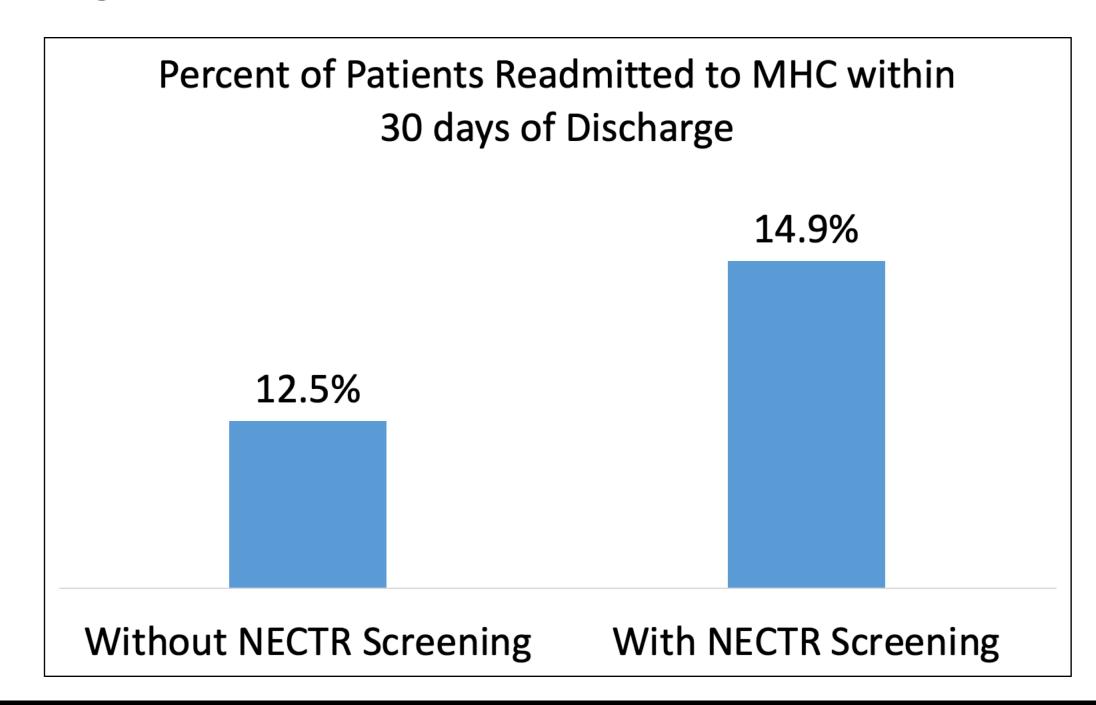
<u>Finding #2:</u> Use of NECTR Screening was associated with decreased ED utilization.



<u>Finding #3:</u> Use of NECTR Screening was not associated with shorter hospital stays or fewer readmissions.



#### Finding #3: (continued)



#### Discussion

- •Since many KP patients are admitted to non-KP services initially (eg. ICU), consistent application of any screening tool would require collaboration with additional UCH physicians
- •Many MD's do not use the standard KP H&P template, so any screening tool must also be added into personal H&P templates
- •Completion of NECTR screening did not necessarily indicate an in-depth conversation of social needs (many screenings documented as yes/no)
- •NECTR screening tool is likely not optimized for the social determinants of health relevant to an inpatient setting; this may have affected usage
  - •Eg. Lack of exercise is unlikely to be a priority in this setting
- •Screening for social determinants of health may be done more consistently if targeted only for high risk patients (geriatric, significant comorbidities)
- •Limited NECTR implementation makes it difficult to draw conclusions regarding the effect on patient outcomes, but results suggest possible decreased ED utilization when social needs are discussed on admission

### Next Steps

- Results will be formally discussed with KP Hospitalists on 4/22/2020
- Future H&P templates should include documentation of whether social work was consulted in order to track the direct effect of screenings
- Future iterations may benefit from 2 distinct H&P's: a "high risk H&P" with a screening tool for social needs and a "low-risk H&P" without

#### References

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- 3. Huff, C (2019). Moving beyond medical needs: Some hospitals are treating patients' food and housing shortages. *ACP Hospitalist*. <a href="https://acphospitalist.org/archives/2019/03/moving-beyond-medical-needs.htm">https://acphospitalist.org/archives/2019/03/moving-beyond-medical-needs.htm</a>

