

# USPSTF Screening Guideline Table: Improving Screening and Teaching

FAMILY MED

SOUTH

Pre

**Questionnaire Data** 

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### **ABSTRACT**

- USPSTF (United State Preventive Service Task Force) publishes screening recommendations to which our residency clinic adheres
- Prior residents have developed a tool to easily visualize recommendations based on age
- Qualitative and quantitative data was collected on the Banner University Family Medicine South Campus clinic/ residents before and after implementing this teaching tool
- No statistically significant change in screening tests ordered among 3<sup>rd</sup> year residents nor interns
- Statistically significant improvement of screening tests ordered by 2<sup>nd</sup> years may be due to new clinical tool
- Pre and post-questionnaires suggest improvement of residents' confidence:
   In their knowledge of age-related screening recommendations
  - In their ability to teach medical students about screening tests

# BACKGROUND/ PURPOSE

- USPSTF's age-related screening recommendations are important in comprehensive primary care
- A version of the One-Page Adult Preventive Health Care Schedule table (as seen on the right) was published in the AFP journal in May 2016
- Purpose;
- Improve the clinic's adherence to the USPSTF screening recommendations
- Improve residents' confidence and knowledge of screening guidelines
- Improve residents' confidence in teaching medical students

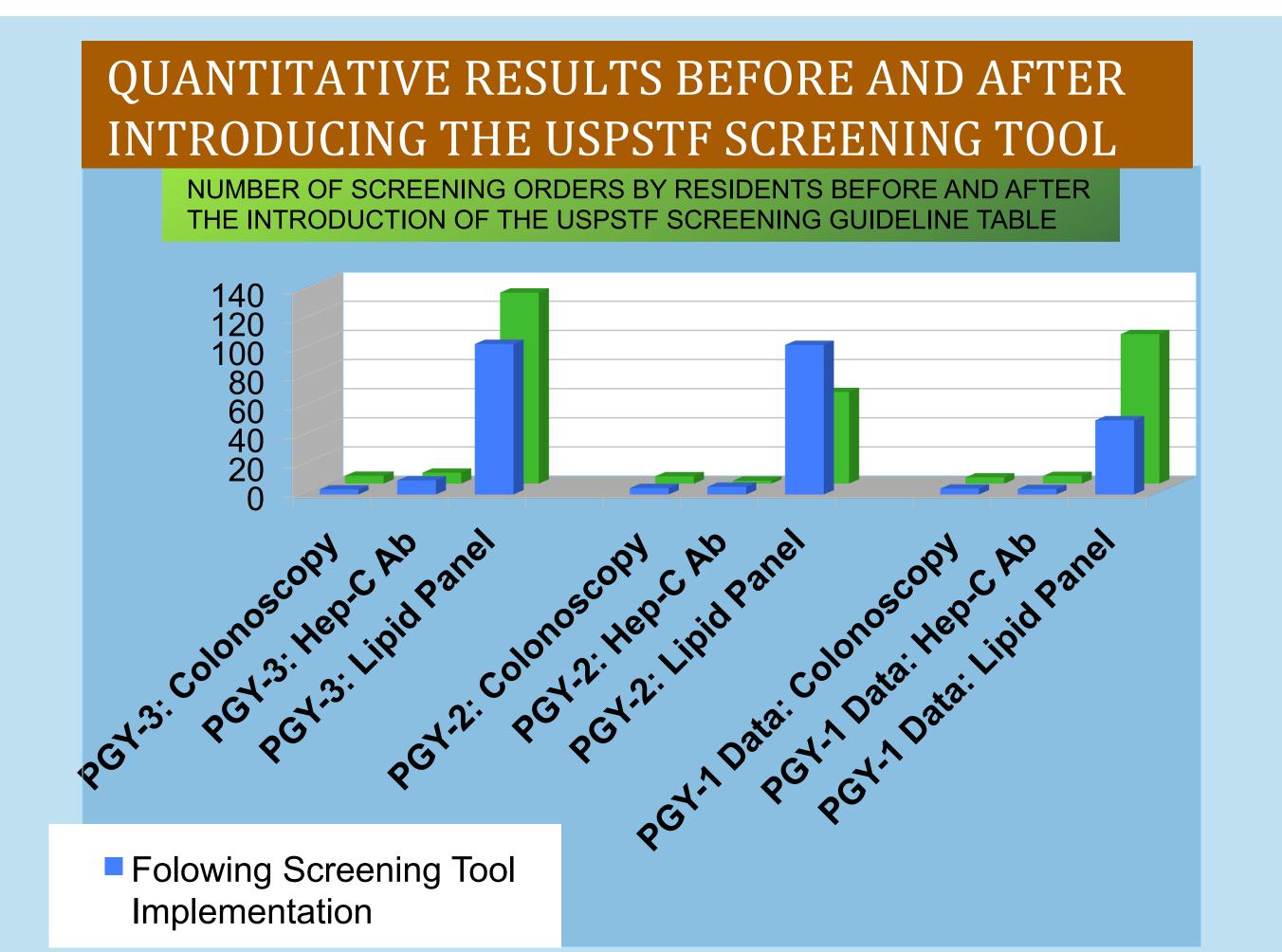
## **METHOD**

- Introduction of the USPSTF Screening Guidelines Table at the South Campus Clinic and instruction on its use (8/26/2016)
- Retrospective data on specific screening tests ordered was collected through Epic for the 6 months before (start 1/24/2016) and the 6 months after (end 2/26/2017) introducing the tool
- 3 marker orders were used to evaluate screening adherence:
- Lipid Panel
- Hepatitis C Ab
- Referral to GI for screening colonoscopy
- Data collected:
- 3<sup>rd</sup> and 2<sup>nd</sup> years: number of orders placed for each marker
- Interns: number of orders placed for each marker by current interns (those with access to the Guidelines Table) compared to interns of the prior year
- Qualitative data on confidence collected by questionnaire before and 6months after the introduction of the Guidelines Table
- T Square analysis of quantitative data was used to assess for significance

#### REFERENCES/AKNOWLEDGEMENTS

- Dr Kyle Meehan and Dr Lynne Tomasa and Dr Judith Gordon for their help with this research
- Co-authors of the original version of the preventive schedule Paul Swnson, Coya Lindberg, Cynthia Carillo, MD, and Joshua Clutter, MD,
- "Recommendations for Primary Care Practice." Recommendations for Primary Care Practice US Preventive Services Task Force. N.p., Web. 2016.
- Swenson, Paul F., and Mark H. Ebell. "Introducing a One-Page Adult Preventive Health Care Schedule: USPSTF Recommendations at a Glance." Introducing a One-Page Adult Preventive Health Care Schedule: USPSTF Recommendations at a Glance May.2016 (2016): 738-40.

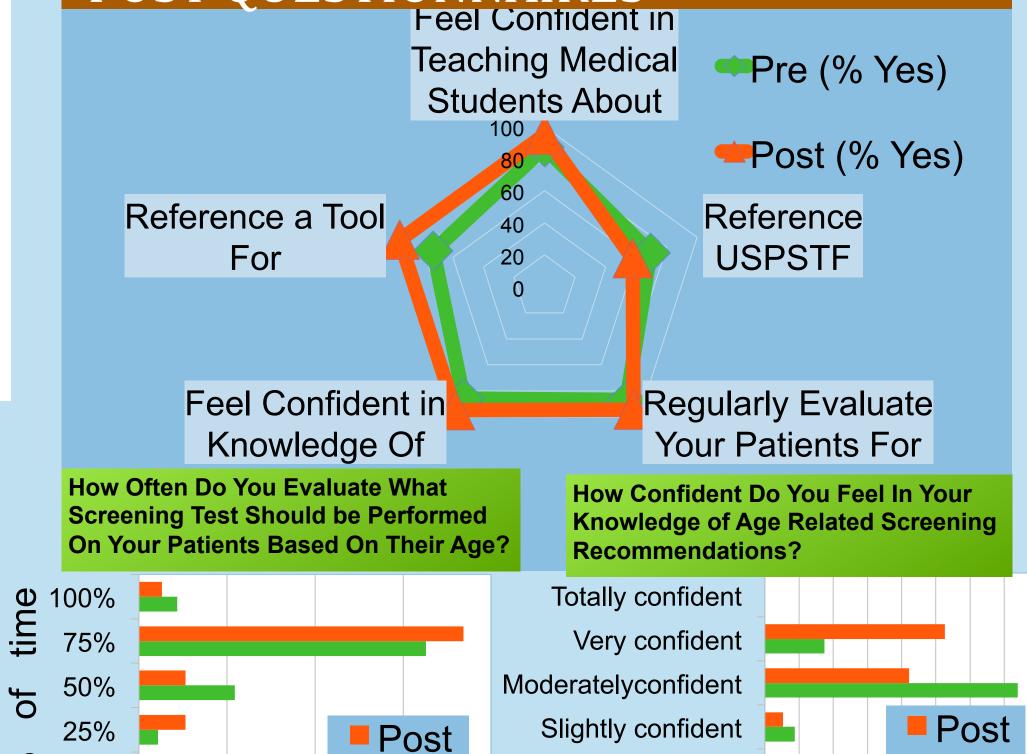
#### **USPSTF Screening Recommendations** (Published Guidelines as of January 30, 2016) To be used in conjunction with USPSTF recommendation statements for additional details (see accompanying tables and references) Only grade A/B recommendations are shown Age 18 20 21 24 25 35 40 45 49 50 55 65 70 74 75 79 80 Alcohol misuse [1] Depression [2] Hypertension [3] Obesity [4] obacco use and cessation [5] BRCA gene screening [9] Chlamydia and gonorrhea [10] B) if increased CAD risk (A) if increased CAD risk Abnormal Glucose/Diabetes[14] (B) if at high risk (B) if at high risk lepatitis C virus infection [15] Colorectal cancer [16] Breast cancer [17] Lung cancer [18] **USPSTF Preventive Medications Recommendations** Aspirin for CVD risk [23] (A) if benefit of aspirin > risk B) if community dwelling and increased fall risk Fall prevention (vitamin D) [24] **USPSTF** Counseling Recommendations Diet/activity for CVD prevention[26] Skin cancer prevention [27] (B) if fair skinned With specific Normal risk Recommendation for men and women Recommended (likely moderate benefit) Recommended against (likely harm or no benefit)



#### **T-Square Statistical Analysis**

<u>Test</u>	T Score	P Value	Conclusion
PGY-3 Screening Colonoscopy	1.1656	0.15	No Significant Difference
PGY-3 Hep-C Ab	0.4224	0.5	No Significant Difference
PGY-3 Lipid Panel	1.4031	0.1	No Significant Difference
PGY-2 Screening Colonoscopy	0.2901	0.1	No Significant Difference
PGY-2 Hep-c Ab	2.1209	0.05	Statistically Significant
PGY-2 Lipid Panel	2.2358	0.025	Statistically Significant
PGY-1s w/ and w/o Screening Tool: Screening Colonoscopy	0.1866	0.5	No Significant Difference
PGY-1s w/ and w/o Screening Tool: Hep-C Ab	0.6428	0.5	No Significant Difference
PGY-1s w/ and w/o Screening Tool: Lipid Panel	0.9169	0.2	No Significant Difference





# CONCLUSIONS

Questionnaire Data

Quantitative Data reveals:

%

- No statistical change in the number of times third years order age-related screening tests
- No statistical change in the number of times interns ordered the 3 marker tests this year compared to the prior year

Not at all confident

- Statistically significant improvement in 2 of the 3 screening tests among the second years
- Qualitative Data reveals
- Improvement of residents' confidence:
  - in knowledge about age-related screening recommendations
  - In ability to teach medical student
- Reported % of evaluating patients for screening tests needed based on their age