Impact of Integrating EMR HCV Testing Prompts in a Difficult to Navigate EMR System

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Background

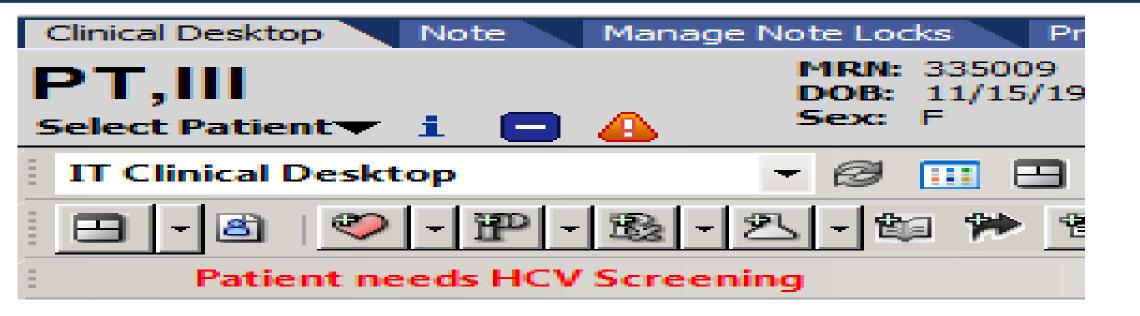
- At least 50% of individuals infected with HCV are unaware of their status
 - 50% of individuals with a reactive antibody test never receive a confirmatory test
- Electronic Health Record (EHR) testing prompts that reflect CDC recommendations for birth cohort testing and the standard HCV screening algorithm have the potential to be a useful tool

Aims

- Describe the impact of these EMR modifications on primary care provider (PCP) testing practices
- Demonstrate the need for widespread HCV testing among clinical practices

Methods

- EMR prompts began July 1 2014
- Individuals born between 1945-1965 with no prior HCV testing had a prompt added to that appeared under the patient's name reminding the PCP that the "Patient Needs HCV Screening"
- Any patient with a reactive antibody test or an ICD-9 code consistent with chronic HCV infection but no confirmatory test had a similar prompt added reminding the PCP that the "Patient Needs HCV Confirmatory Testing"
- Educational sessions about CDC screening guidelines, testing algorithms and prompts were held at primary care practices to reinforce implementation
- To simplify HCV test ordering options EHR technical staff removed ordered for non-preferred tests such as older tests and redundant tests
- Technical staff limited access to duplicate testing options
- Providers were encouraged to use HCV antibody testing with reflex to PCR quantitative testing as the preferred method



test



Figure 2. EMR alert for all individuals who had a reactive HCV antibody test or an ICD-9 code consistent with chronic HCV infection, but not had confirmatory PCR quantitative testing in the last 5 years

- 100%
- 90%
- 80%
- 70% \bigcirc sts
- 60% Ū H
- 50%

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- 40% **(**)
- intag(30%
- 20%
- 10%

0%

Figure 1. EMR alert for individuals born between 1945-1965 with no previous HCV

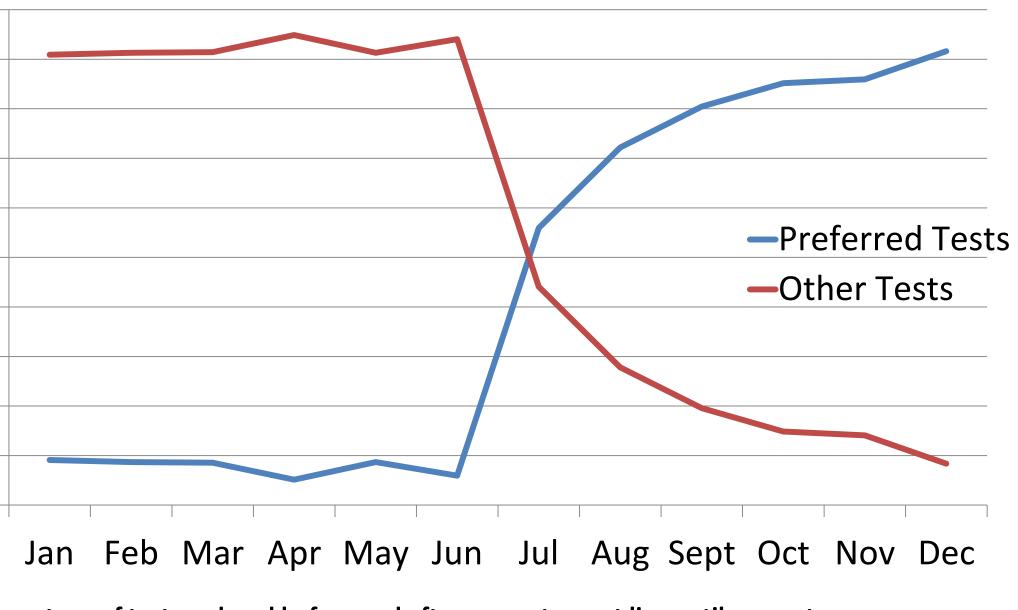


Figure 3. Percentage of tests ordered before and after prompts went live until present

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40%

30%

25%

a 20%

35%

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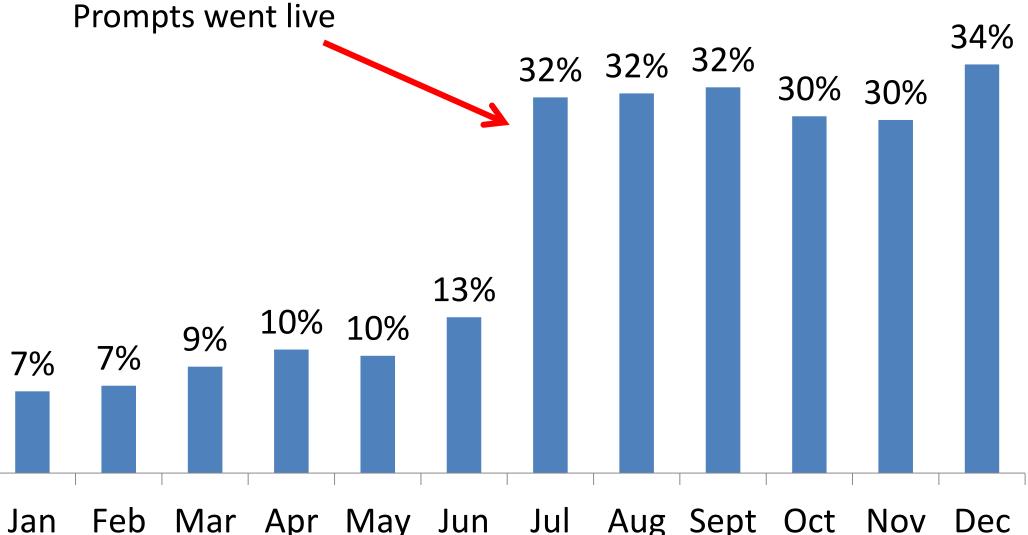
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- Prompts implemented in July were effective in increasing routine screening of the baby boomer birth cohort

- If the preferred HCV antibody test, HCV Antibody Screening with Reflexive Confirmation, is performed then there is no need for a second blood-draw to determine the HCV viral load; the patient is then able to move forward with treatment without the need for a follow up confirmatory test.
- EHR prompts and provider education have the potential to increase the number of individuals aware of their HCV status



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Figure 4. Percentage of eligible baby boomers tested for HCV before and after prompts went live

Conclusions

- There was a shift towards ordering tests that support the recommended testing algorithm with a decrease in the number of non preferred tests ordered
- Implemented EHR prompts work towards engaging the recommended birth cohort into testing and treatment

Future Directions

Providers at primary care practices will continue to be educated on best practices in testing methods in accordance with CDC screening guidelines and prompts. Providers at primary care practices will be notified of their testing behaviors through report cards that will be distributed monthly