STOP HCC: HCV PREVENTION

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UT Southwestern Medical Center
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DISCLOSURES

- Grant Funding
  - Gilead Sciences, Janssen, Merck

- Consultant/Advisory Board
  - Gilead Sciences
Prevention:

Curing HCV Reduces the Risk of HCC

For patients with cirrhosis, continue screening even after cured

Kanwal et al. Gastroenterology 2017; Ashahina et al., Hepatology 2010
Where do you start?

MILLIONS OF AMERICANS HAVE HEPATITIS C. MOST DON’T KNOW IT.

If you were born between 1945 and 1965, we will include the hepatitis C test with your other lab work. If you have questions or concerns, please talk with your nurse.

Millones de Americanos tienen hepatitis C. La mayoría no lo saben.

Si usted nació entre los años 1945 y 1965, incluiremos la prueba de detección de hepatitis C con el resto de sus análisis de laboratorio. Por favor diríjase a su enfermero(a) si tiene preguntas al respecto.

EARLY DETECTION CAN SAVE LIVES. DETECCIÓN TEMPRANA PUEDE SALVAR VIDAS.

www.cdc.gov/KnowMoreHepatitis
HCV SCREENING RECOMMENDATIONS

- US Preventive Services Task Force (USPSTF) Guidelines - 2012
- One time screening of all baby boomers (born 1945 through 1965) for HCV infection (USPSTF Rating: Class I, Level B)
- USPSTF March, 2020 recommendation update to screen all adults 18-79 (Level B)
ALGORITHM FOR HCV SCREENING

HCV antibody

- Nonreactive
  - No HCV antibody detected
    - Stop*
  - Reactive
    - HCV RNA
      - Not detected
      - Detected
        - Current HCV infection
          - Link to care
        - No current HCV infection
          - Additional testing as appropriate†
EFFECTIVENESS OF HCV MEDICATIONS

- Rate of cure for each regimen varies depending on
  - Genotype
  - Presence of cirrhosis
  - Prior treatment for HCV
- Most of these have >90% cure rate
HCC PREVENTION BY INCREASING HCV SCREENING AND LINKAGE TO CARE

STOP-HCC (Screen Treat Or Prevent HCC) program (CPRIT PP150079)

- HCV is most common cause of HCC in U.S. and in Texas
- We identified unscreened patients in the EMR and developed a multifaceted intervention

EMR Best Practice Alert
Born 1945-1965, seen in primary care clinics with no prior HCV screening

Provider Education and Feedback

Patient Navigation and Education

Increased HCV clinic capacity

Courtesy of Nicole E. Rich, MD
HCV PROGRAM EDUCATION

Provider Education

BORN FROM 1945 TO 1965?

BABY BOOMERS HAVE THE HIGHEST RATES OF HEPATITIS C.

Patient Education
BEST PRACTICE ALERT AT PARKLAND

- BPA will trigger for:
  - Any person born between 1945-1965 with a primary clinic appointment who has not been tested for HCV.
OUR PROCESS

- Patient Navigator

Clinician

Nurse Navigator

Medication Access Specialist/Pharmacist
MONUMENTAL COSTS OF HCV DRUGS

- Uninsured patients – medications obtained through Patient Assistance Program
- Insured patients – medications obtained through prior authorization/appeal process
HCV SCREENING IN BABY BOOMERS: PRE AND POST BEST PRACTICE ALERT

3.5 fold increase in screening rate

P<0.0001

Predictors of SVR 12
- Presence of decompensated cirrhosis increased risk of treatment failure
  - OR 0.37, 95% CI: 0.16-0.85

No differences in response by
- Race/ethnicity minorities vs. whites
  - 91% vs. 87%, p=0.15
- Insured vs. uninsured
  - 90% vs. 90%, p=0.98
- Drug and Alcohol Use
  - 92% vs. 89%, p=0.34
- HIV infection
  - 90% vs. 87%, p=0.51
- Mental health disorders
  - 90% vs. 89%, p=0.57

Yek et al. BMC Medicine 2017
EFFECTIVENESS OF PATIENT NAVIGATION

- Implemented a patient navigation 1/1/2016.
- Allowed 3 months after HCV RNA+ for usual care referral & if not done navigation started.
- 1393 (805 pre- & 588 post): 63% Black, 61% male, 61% uninsured.
- No differences seen in proportion starting treatment of achieving SVR between the pre-intervention and post-intervention group.

John et al. AASLD 2019
SOUTH TEXAS FQHC

- Train Primary Care providers
  - Developed HCV slide sets
  - Educated providers in FQHCs
  - Re-trained as needed with new providers

- Individual consultation with specialist to assist with treatment selection
  - Survey with key HCV data completed by clinician
  - Phone discussion on treatment

- Navigators helped with follow-up
  - Obtaining ultrasound
  - Obtaining approval through patient assistance program
WE ARE EXPANDING......
EXPANDING LOCATIONS AND PROGRAMS

- John Peter Smith has implemented a HCV alert under health maintenance and will be implementing navigation.
- El Paso has implemented an HCV alert under health maintenance and will implement a link to order HCV Ab with reflex RNA testing.
- We are using mobile van to screen patients in rural counties in North Texas through Moncrief Cancer Center
- We will expand our services to include hepatitis B vaccination through partnership with DFW Hepatitis B Free student organization
Community Outreach: Hepatitis B & C Testing

DFW Hepatitis B Free Organization
Dallas County

- HCV Ab tested: 10825
- HCV Ab+: 763
- HCV RNA tested: 1324
- HCV RNA +: 696

South Texas

- HCV Ab tested: 3549
- HCV Ab+: 119
- HCV RNA tested: 101
- HCV RNA +: 43
ALTERNATIVE METHODS FOR SCREENING
HCV SCREENING HEALTH FAIR
Monthly Orders for Point of Care Test

Monthly Goal*: 190

Monthly Average: 89

*POCT goal for 3 grant years is 6830 tests
Clinical Flowchart

HCV POCT
1418

Positive
87

Negative
1329

Unknown
2

HCV RNA
78

Positive
35

Negative
14

Unknown
29

HCV Treatment
29

Unknown
6

Patients Cured
7
HCV Program - Patient Demographics

Total Patients:

- 1409

Patient Race and Count:

<table>
<thead>
<tr>
<th>Race</th>
<th>Count</th>
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<tbody>
<tr>
<td>White</td>
<td>955</td>
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<tr>
<td>Unavailable/Unknown</td>
<td>186</td>
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<tr>
<td>Black or African American</td>
<td>165</td>
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<tr>
<td>Asian</td>
<td>55</td>
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<tr>
<td>Some other race</td>
<td>36</td>
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<tr>
<td>Declined</td>
<td>5</td>
</tr>
<tr>
<td>Native Hawaiian or Other Pacific Islander</td>
<td>5</td>
</tr>
<tr>
<td>American Indian or Alaska Native</td>
<td>2</td>
</tr>
<tr>
<td><strong>Total</strong></td>
<td><strong>1409</strong></td>
</tr>
</tbody>
</table>

Patient Count by Generation:

- Baby Boomers (1945 - 1965): 633
- Generation X (1966 - 1980): 376
- Silent Generation (1925 - 1944): 141

4 Patients are non-Texas residents

Less than 1% of patients don't have their gender listed on EPIC, so the gender percentages may not always add up to 100%
THE TEAM

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THANK YOU FOR YOUR ATTENTION!

Cancer Prevention & Research Institute of Texas

HCV STOP HCC