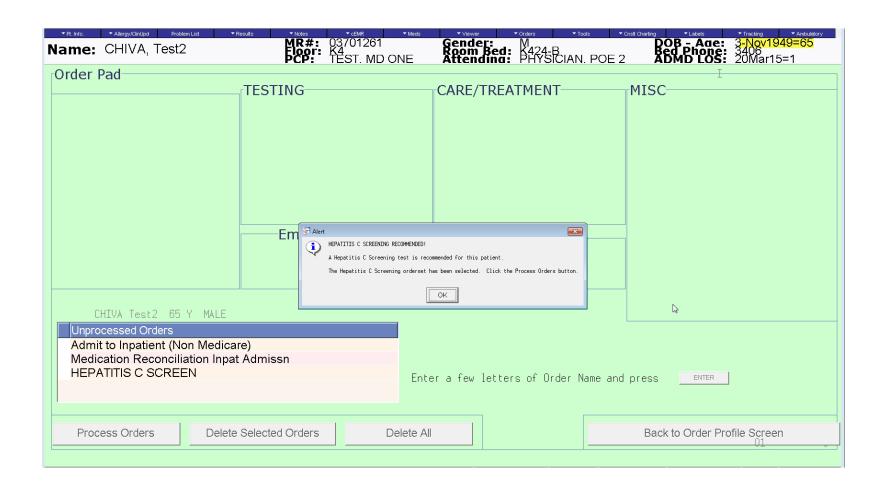
Hepatitis C Initiatives at Montefiore

Shuchin Shukla MD MPH

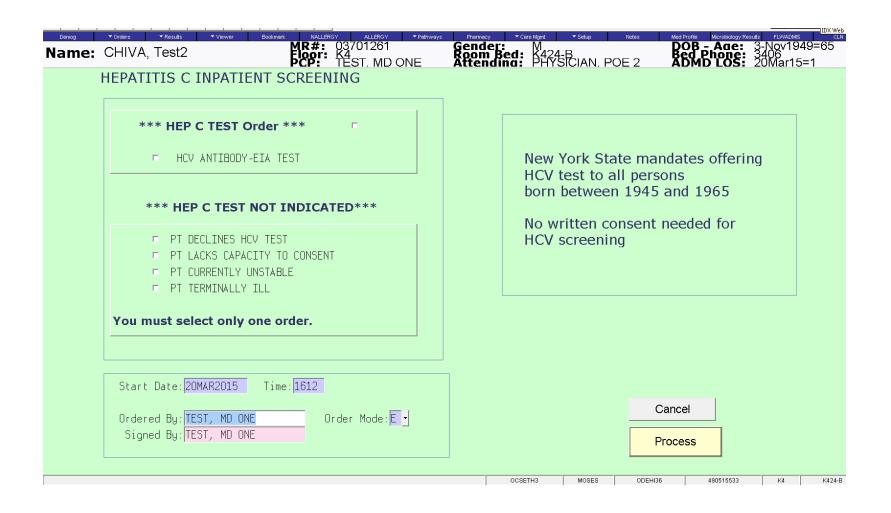
Overview

- Inpatient EMR prompt
- Reflex testing
- Screening QI Projects
- Provider education
- Project INSPIRE
- Data utilization
- Fibroscan and Fibrosure
- EMR smart support

Inpatient EMR Prompt



Inpatient EMR Prompt



Reflex Testing

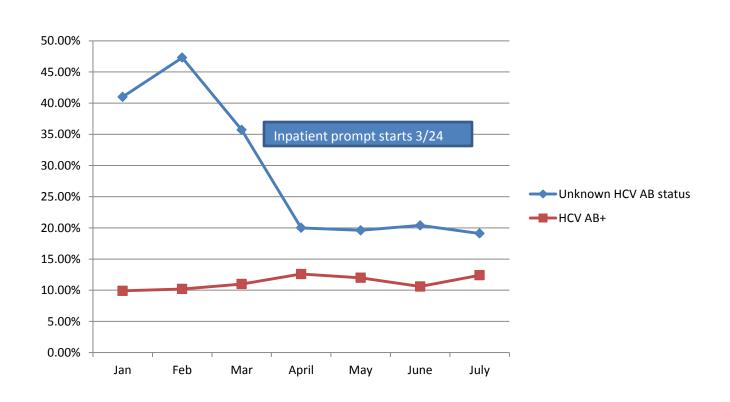
- Inpatient and outpatient
- When provider orders HCV antibody, nurse is automatically prompted to collect enough blood for reflex HCV RNA test
- If antibody is positive, RNA is automatically tested

Admissions to Montefiore Moses Hospital in 2015

	Jan 2015	Feb 2015	Mar 2015	Apr 2015	May 2015	June 2015	July 2015
Unique Birth Cohort patients	1075	1006	1246	1277	1217	1256	1283
Unknown HCV AB status	441 (41.0%)	476 (47.3%)	445 (35.7%)	258 (20.0%)	239 (19.6%)	256 (20.4%)	245 (19.1%)
HCV AB+	107 (9.9%)	103 (10.2%)	137 (11.0%)	161 (12.6%)	146 (12.0%)	133 (10.6%)	159 (12.4%)

Impact of Inpatient EMR Prompt

Proportion of Montefiore Moses Admissions Screened



Screening QI Projects

- Organizing Quality Improvement project to improve birth cohort screening at Montefiore outpatient primary care health centers
- Collaboration of non-clinical and clinical staff
- Education for non-clinical staff
- Data feedback
- Plan-Study-Do-Act cycle



Provider Education

- Mandatory "E-Learning Module" update on NY State Birth Cohort screening mandate
- All Primary Care Providers in Montefiore network
- Includes basic update about Hep C treatment with new meds and referral resources

And new treatments are now available!

Directly Acting Antivirals replace interferon based regimens

- Less side effects, less treatment discontinuation
- Cure rates now >95%
- All oral regimens
- Shorter duration of treatment
- Available for most patients, even with kidney disease, active substance abuse, or HIV





Project INSPIRE Montefiore Clinics



Project INSPIRE

- CMS Grant: NYC DOH, Sinai and Monte clinical partners, Cornell evaluation partner
- INSPIRE Innovate & Network to Stop HCV & Prevent complications via Integrating care,
 Responding to needs and Engaging patients & providers
- Program Period: September 1st, 2014 –
 August 31st, 2017 (3 years)

Project INSPIRE - Telementoring

Who

- 7 primary care provider champions
- Core Team 2 ID experts, 1 Hepatologist, 1
 Addiction/HCV expert, 1 Psychologist

What

- Via Webex
- Didactic Core Curriculum
- Case presentations
- >36 sessions to date Mondays @ 2pm
- CME credit

Project INSPIRE – Care Coordination

- 7 care coordinators
 - 1. Support treatment
 - a) Prior authorizations
 - b) Standardized pretreatment readiness assessment
 - Referrals for mental health, substance abuse treatment, and benefits/housing
 - d) Health promotion
 - 2. Inreach/Outreach
 - 3. Data input NYC DOHMH Database
- 9 peer navigators
 - Patient support
 - Health promotion, adherence support, peer support, outreach

Data utilization

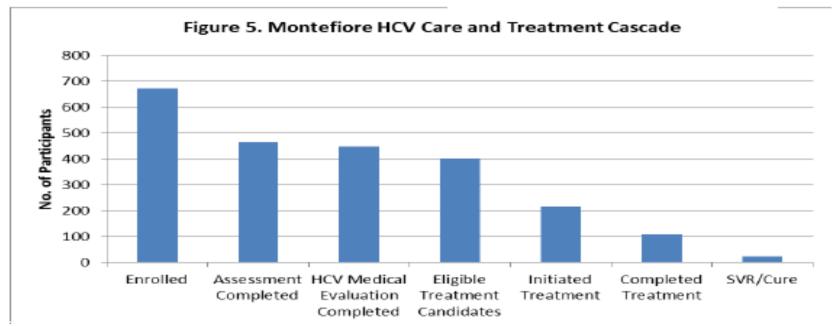
- Identify newly diagnosed inpatients- bedside education and linkage to care
- Identify known HCV+ in individual primary care sites and conduct outreach
- Provide HCV birth cohort screening data to primary care sites
- Create "Cascade of Care" for entire Montefiore system

Project INSPIRE Cascade of Care

CARE AND TREATMENT CASCADE - MONTE

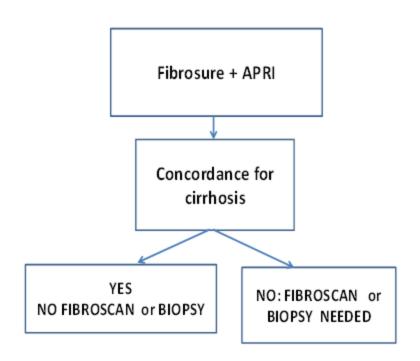
Table	5. INSPIRE	Treatment	Cascade
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Care Milestone	N	%			
Enrolled	672				
Assessment Completed	466	69%			
HCV Medical Evaluation Completed*	449	67%			
Eligible Treatment Candidates	402	90%			
Initiated Treatment	216	54%			
Completed Treatment	109	50%			
SVR/Cure	24	22%			
Percent is calculated a % of previous row					
*HCV Medical Evaluation is calculated a % of all enrollees					



Fibroscan and Fibrosure

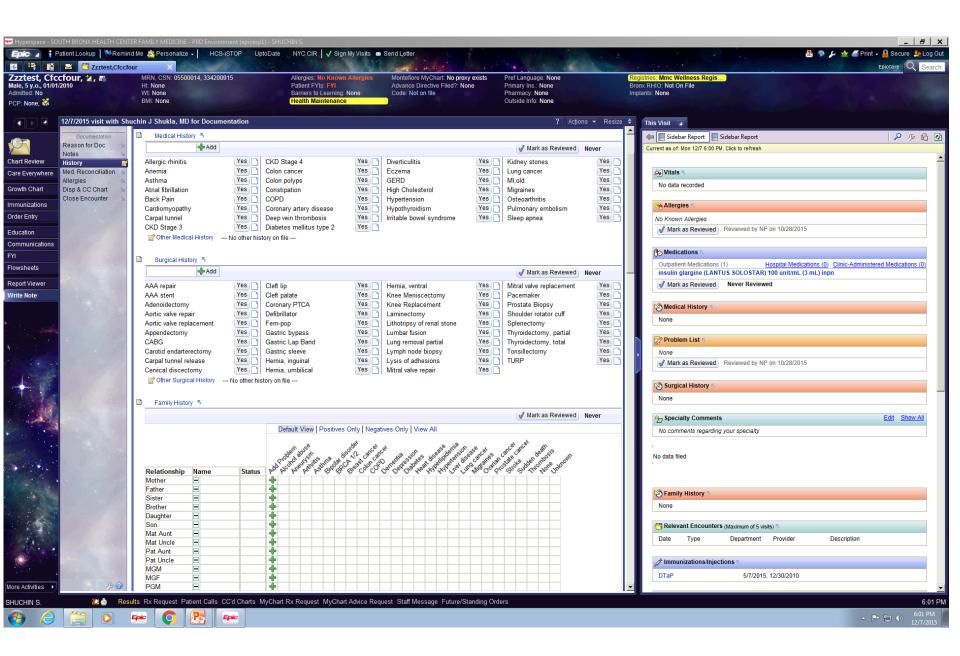
-Avoid biopsy, support primary care work up for HCV+ patients





EMR smart support

- Challenges with new EPIC transition
- Also opportunities to build "SmartTools" to assist PCPs who do NOT treat HepC:
 - Prompts for labwork and imaging
 - Prompts for referrals
 - Algorithms and education built in
 - Extractable data to help build Cascade of Care



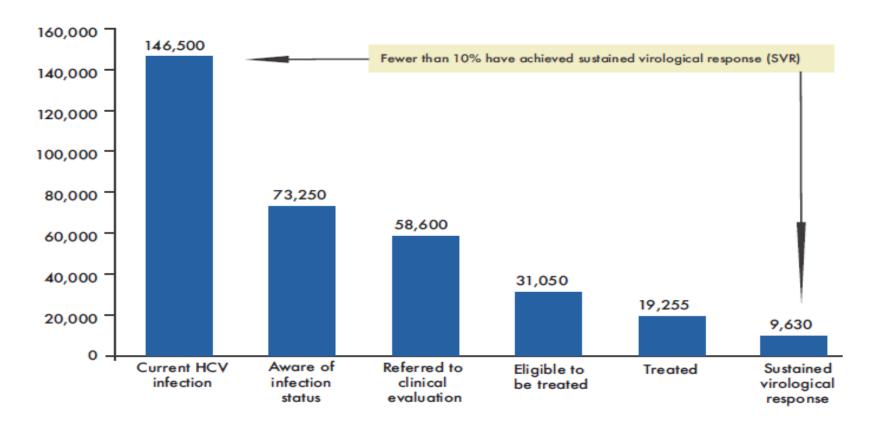
A Roadmap For Success...

- 1) Multidisciplinary process:
 - Vice President for Medical Affairs, Assistant Dean of Research, Director of Research and Program Development, leaders in the Departments of Pathology, Family Medicine, Medicine (Divisions of General Medicine, Infectious Diseases, Hepatology, and Hospital Medicine), and Psychiatry and Behavioral Sciences (Division of Substance Abuse Treatment); Data Management; EMR; and QI.
- 2) Collaboration among Hepatology, Infectious Diseases, and Primary Care and convening an internal multidisciplinary task force is key!
- 3) Educating key stakeholders about the importance of HCV treatment
- 4) Collecting and disseminating high quality data is key to both influencing key leaders and obtaining internal and external resources.
- 5) Don't reinvent the wheel. Learn from HIV successes (e.g. pop up tool) and from other institutions.

Special Thanks

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- Jeff Weiss
- Noel Brown
- Amy Fox
- John Reinus
- Fabienne Laraque and DOH team

Questions?



Sources: Balter et al. 2013; Denniston et al. 2012.

Notes:

- (1): Estimates of current HCV prevalence and awareness of infection status from Balter et al.
- (2) All other estimates extrapolated from Denniston et al.