HCV confirmation testing coupled with an ED based screening program

Background

The CDC estimates that there are 2.7 to 3.9 million people in the US living with Hepatitis C. Because of the slow progression of the disease many of these people are unaware they are infected leaving them at high risk for liver disease and hepatocellular carcinoma.

In 2012, the CDC recommended testing all individuals born 1945 to 1965 without consideration of risk for HCV. 1/2013, Memorial Hermann Hospital System partnered with Gilead-HIV FOCUS to begin birth cohort HCV testing in the emergency department (ED) at the Memorial Hermann Hospital, Texas Medical Center Campus (MHHS).

That program has now expanded to all 9 ED campuses of the Memorial Hermann System adding confirmatory RNA testing to patients identified as antibody positive.

Objective

To implement and define the feasibility of birth cohort screening in a busy urban and suburban ED's for the purpose of identifying HCV antibody positive persons, identifying active infection and linking patients to care.

Results

December 2014 - 773 screened, 59 antibody positive, 16 RNA positive, 10 RNA negative January 2015 - 912 screened, 86 antibody positive, 36 RNA positive, 10 RNA negative March 2015 – 766 screened, 57 antibody positive, 21 RNA positive, 5 RNA negative

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		TOTAL Screened	Antibody positive	RNA positive	 ED Screening - OCCURV, KF ED Screening - OCCURV, KF Performed on: 09/10/2014 0910 Psychosocial 	
				-	* TB Screen	
2014 - Antibody only, TMC location					* ED Fall Risk Tool	
2014 - Antibouy	only, INC location				* HIV Previously Tested	Was the patient born between 19
	Jan-14	145	11		 HCV Screening JH Fall Risk Category/Score 	O Yes O No
	Feb-14	148	19		JH Fall Risk Interventions	
					Pediatric Fall Risk	
	Mar-14	146	17		* Providers	
	Apr-14	155	8		* Advance Directive 0-6 Develop	Has the patient ever been tested
					7-17 Develop	O Yes
	May-14	87	6		* Past Medical History	O No O Unknown What was the result of the test?
	Jun-14	193	18		* Family Medical History	
					 * Procedure History * Social History ED 	
	Jul-14	217	18		Problems and Diagnosis	
	Aug-14	178	13		Vaccine Info	
	Sep-14	138	4		Nutrition	 Positive Negative Unknown
	Oct-14	221	19			The CDC recommends a one time test
	Nov-14	112	11			
ALL 9 MH LOCA	TIONS + RNA Confirmatory					participate in this confidential testing o
Testing	12/17/2014	773	59	16		C Accept Testing
	Jan-15	912	86	36		O Decline Testing
	Feb-15	654	67	28		
	Mar-15	766	57	21		

Methods

Study designs: Clinical Quality Improvement Protocol Participants: all patients born 1945-1965 who access the ED for care and who are able to opt-out of HCV screening.

Interventions: Patients who are informed of HCV screening and given the opportunity to opt out of testing. The venous blood sample is processed by an IgG antibody methodology two was immunoassay using chemiluminometric technology for for HCV antibody positivity. Roche COBAS Ampliprep/COBAS Taqman HCV real-time RT-PCR IVD system is used to confirm the HCV genome utilizing a dual probe approach.

Conclusions

Through the process of ED based screening we have demonstrated the feasibility of testing patients for HCV and identifying HCV active infection. Patients will likely continue to access the ED as their primary healthcare location making ED's an important location for infectious disease screening. Additional attention needs to be addressed by the Centers for Medicare and Medicaid Services (CMS) to alter the current definition for reimbursement. The current definition by USPSTF of grade B clearly excludes emergency departments, inpatient hospital settings, as these locations are not considered primary care locations.

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Hepatitis C Testing

ICV to persons born 1945-1965. If you are unaware of your HCV status, we encourage you to

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THE UNIVERSITY OF TEXAS

Medical School at Houston

A part of The University of Texas Health Science Center at Houston



References

http://www.cdc.gov/hepatitis/HCV/GuidelinesC.htm