DEPARTMENT of

The Impact of Hepatitis C-Related Knowledge on Perceptions of Stigma Among Infected Individuals

BIOSTATISTICS EPIDEM LOGY & **INF RMATICS**

M. Elle Saine^{1,2}, Julia E. Szymczak^{1,3}, Kimberley A. Forde⁴, Tyler M. Moore⁵, Laura P. Bamford⁶, Frances K. Barg^{1,7}, Jason Schnittker⁸, John H. Holmes¹, Nandita Mitra^{1,2}, Vincent Lo Re III^{1,3}

¹Department of Biostatistics, Epidemiology, and Informatics, Perelman School of Medicine, University of Pennsylvania, ²The Leonard Davis Institute for Health Economics Research, University of Pennsylvania, ³Division of Infectious Disease within the Department of Medicine, Perelman School of Medicine, University of Pennsylvania, ⁴Department of Medicine at Temple University, ⁵Brain Behavior Laboratory, Department of Psychiatry, University of Pennsylvania, ⁶University of California San Diego School of Medicine, ⁷Department of Family Medicine and Community Health, Perelman School of Medicine, University of Pennsylvania, ⁸Department of Sociology, University of Pennsylvania

Abstract

- Background: Stigma is an important and understudied barrier to hepatitis C virus (HCV) infection treatment and elimination. The association between knowledge about HCV infection and perceptions of stigma among HCV-infected patients remains unknown.
- Methods: We conducted a cross-sectional survey study among 270 HCV-infected patients in Philadelphia, using the HCV Stigma Scale and National Health and Nutrition Examination Survey (NHANES) Hepatitis Follow-up Survey (2003-2008).
- Results: Median knowledge scores did not significantly differ between HIV/HCV-coinfected and HCV-monoinfected participants (10 versus 9; p=0.29). Greater HCV knowledge was significantly associated with increased HCV Stigma Scale Scores in unadjusted analyses (p=0.013) and when adjusting for demographic and clinical covariates (p=0.034).
- Conclusions: Regardless of HIV status, the majority of the participants in this study answered questions about HCV knowledge correctly. Surprisingly, greater HCV knowledge was associated with increased HCV-related stigma. Additional qualitative studies are needed to better understand this association.

Background & Objectives

- >4.5 million Americans with hepatitis C virus (HCV) infection
- Disease stigma: social process linking individual attributes & medical dx \rightarrow poor health outcomes & \downarrow quality of life
- based myths & misinformation
- The association between knowledge about HCV infection & perceptions of disease-related stigma among HCV-infected patients remains unknown
- Objective: Evaluate whether increased knowledge about HCV infection & transmission is associated with decreased HCV-related stigma

	Design: Cross-sectional survey study
•	Participants (n = 270): 1) ≥18 years of age, 2) HCV antibody positive, 3) English speaking
•	Data Collection:
	➢ <u>Outcome</u> : HCV-related Stigma → 33-item HCV Stigma Scale Score (score, 33 - 132)
	➤ Exposure: Knowledge about HCV infection → 11-item NHANES Hepatitis C Follow-up Survey (2003 - 2008)
	Self-reported covariates: age, sex, race & ethnicity, education level, HIV coinfection, years since HCV diagnosis, stage of HCV management
	Statistical Analyses: Linear regression models
	Adjusted for self-reported demographic & clinical covariates
R	esults





Results

Higher HCV knowledge scores associated with higher HCVrelated stigma scores in unadjusted (p=0.013) & fully adjusted analyses (p=0.034)



Conclusions

- The majority of participants answered questions about HCV knowledge correctly
- Unexpectedly, greater HCV knowledge was associated with increased HCV-related stigma
- Additional qualitative research is needed to identify the process by which increased knowledge may impact HCV related stigma, which may inform future education-based interventions to reduce HCV-related stigma







