View Abstract

CONTROL ID: 4486268

TITLE: Closing the Hep B Gap: Boosting Vaccination through Resident Education

SUBMITTER (NAME ONLY): Ruchi Patel

ABSTRACT BODY:

Setting and participants: This study was conducted in a resident-run primary care clinic at a safety-net hospital in central Brooklyn, serving a predominantly Afro-Caribbean adult population with high poverty levels and immigration rates. NYC Health Department reports indicate a progressive increase in the incidence of chronic hepatitis B since 2020. The updated 2022 ACIP guidelines recommend universal adult Hep B vaccination to address inequities and missed opportunities for preventing acute infection and subsequent chronic disease, cirrhosis, and hepatocellular carcinoma. A pilot questionnaire identified knowledge and workflow gaps among primary care residents, leading to the development of a standardized, peer-taught intervention aimed at addressing these issues and improving patient outcomes.

Description: A peer-taught, 15-minute educational intervention was implemented for 43 primary care residents to improve their knowledge, confidence, and motivation regarding universal adult Hep B vaccination, based on updated ACIP guidelines. The session covered epidemiology, serology, cost, efficacy, safety, and patient communication. Pre- and post-surveys evaluated the outcomes of this replicable, evidence-based approach to address vaccination practice gaps and improve public health.

Evaluation: Most knowledge questions showed no significant changes, indicating residents had a strong understanding of Hepatitis B vaccination and screening. However, the intervention significantly improved confidence and motivation. Correct responses to “Adult patients vaccinated against Hepatitis B are likely to maintain protective immunity throughout their lifetime” increased by 22.0% ($p = 0.031$). Confidence in interpreting Hepatitis B serologies rose from 63.0% to 81.5% ($p = 0.004$), and understanding of vaccination guidelines increased from 70.4% to 88.9% ($p = 0.002$). Comfort in discussing Hepatitis B risk factors and consequences grew by 7.4%. Early data shows these improvements led to a 26.67% rise in vaccination rates in the 3 weeks post-intervention.

Objective/Purpose of Innovation: Improve resident physicians' knowledge, confidence, and motivation for universal adult Hep B vaccination by closing workflow and application gaps. This innovation aims to enhance adherence to ACIP guidelines and increase vaccination in a high-risk primary care population.

Discussion / reflection / lessons learned: This intervention showed that, while residents had a solid understanding of Hepatitis B vaccination and screening, enhancing clinical confidence and practical application boosted motivation. Significant gains were observed in applying vaccination guidelines, especially in interpreting serologies and understanding long-term immunity from the vaccine. The results highlight the value of combining education with practical application in clinical settings. By focusing on motivation and confidence, the intervention successfully encouraged residents to adopt evidence-based guidelines, improving vaccination coverage.

SESSION TITLE: None

SESSION DAY & DATE: None

SESSION START TIME: None

Agreement: Rebhi Rabah: I attest;Rebhi:Rabah | Ruchi Patel: I attest;Ruchi:Patel | Sumaiyia Chowdhury: I attest;Sumaiyia:Chowdhury | Dr. Erwin Odongo: I attest;Erwin:Odongo | Kevin Han: I attest;Kevin:Han | Ekenedilichukwu Nnadi: No Answer. | Melissa Lee: I attest;Melissa:Lee | Nadia Williams: No Answer.

Financial Relationships: Rebhi Rabah: No, In the last 24 months, I have had no financial relationships. | Ruchi Patel: No, In the last 24 months, I have had no financial relationships. | Sumaiyia Chowdhury: No, In the last 24 months, I have had no financial relationships. | Dr. Erwin Odongo: No, In the last 24 months, I have had

no financial relationships. | Kevin Han: No, In the last 24 months, I have had no financial relationships. | Ekenedilichukwu Nnadi: No Answer. | Melissa Lee: No, In the last 24 months, I have had no financial relationships. | Nadia Williams: No Answer.

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Product version number 4.17.4 (Build 365). Build date Wed Dec 10 07:21:08 EST 2025. Server ip-10-236-29-45