

HEP B MOMS PROJECT

**A postpartum patient navigation program
for women living with hepatitis B**

Liz Tang

New York City Department of Health and Mental Hygiene
Viral Hepatitis Program

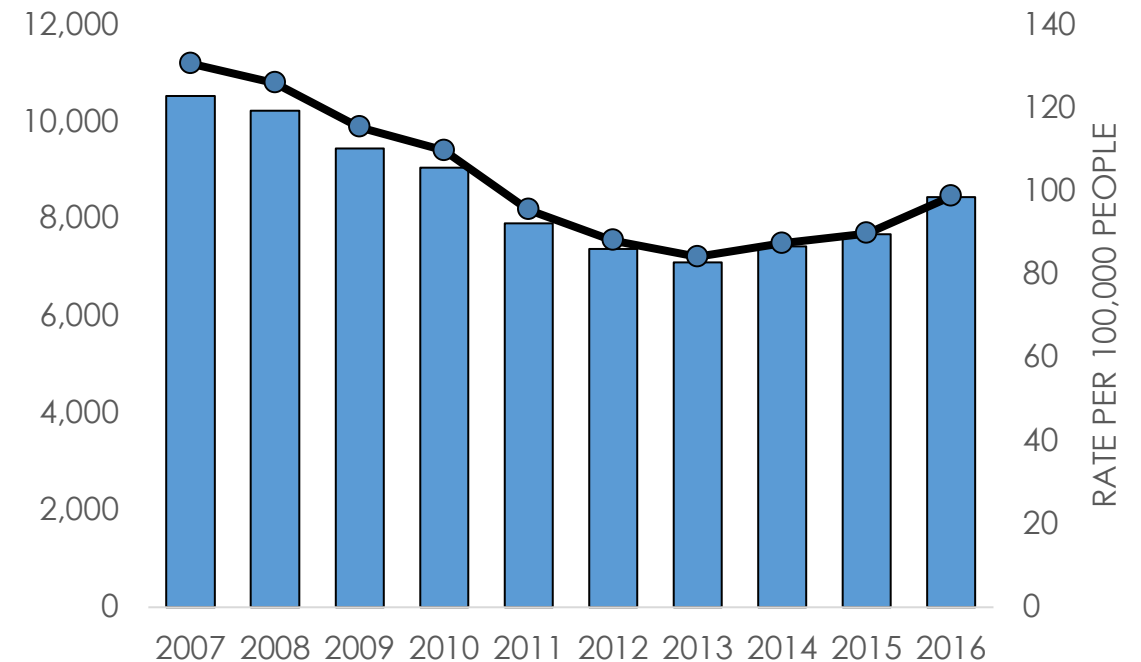
July 25, 2018



Background

- In NYC diagnosed prevalence of hepatitis B estimated at 100,000
- Hepatitis B leads to liver cancer/cirrhosis in up to **25%** of those infected
- 1,630 pregnant women reported with hepatitis B in 2016

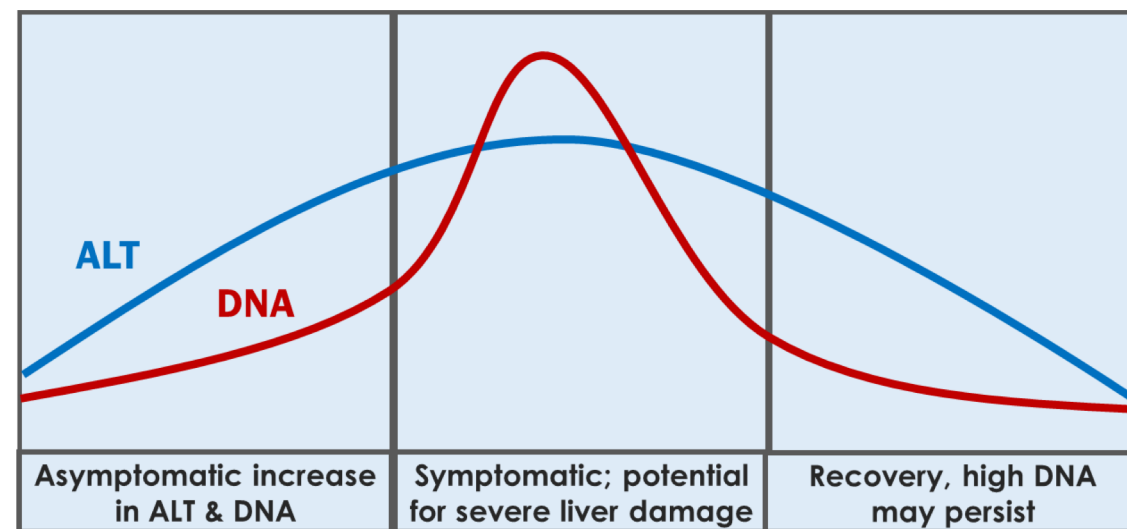
People newly reported with chronic hepatitis B in New York City, 2007-2016



Postpartum Hepatitis B Care

- **1 in 5** pregnant women newly diagnosed with hepatitis B receive appropriate follow-up
- Only **50%** of providers educate women about hepatitis B or refer to specialty care
- Estimated **25%** of women with hepatitis B have flares after delivery
- Many women **lose their health insurance** soon (2 months) after delivery

Hepatitis B flares (reactivation) can cause moderate to severe liver damage



Hep B Moms Project

Goal: Increase maternal engagement in hepatitis B medical care after delivery

Population: Adult women who complete a post-partum interview with Perinatal Hepatitis B Prevention Program (PHBPP), Bureau of Immunization (BOI)

Intervention: Provide culturally and linguistically appropriate hepatitis B patient navigation services, assistance to overcome barriers, and help for household contacts to find testing or hepatitis B directed care; required full IRB approval & informed consent

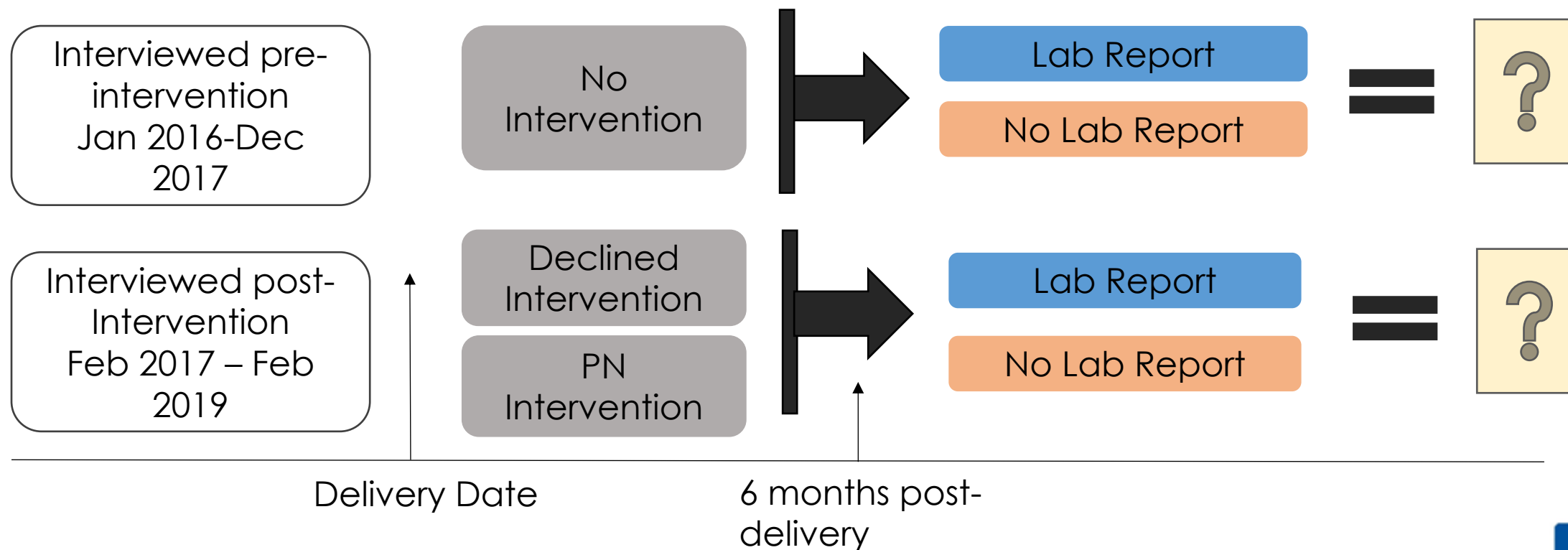
Duration: ~2 years (intervention started Feb 2017)

Funding Source: Supported by a grant from Gilead



Evaluation

Did the introduction of patient navigation services into the PHBPP increase the proportion of women who attended a medical appointment within 6 months after delivery?



Outreach & Enrollment

Before Outreach

Receive referrals from the PHBPP; review cases on the Electronic Disease Surveillance System

Demographic & clinical information reported by lab and interview:

- Name, birth date, age, race, ethnicity, marital status
- Primary language, other languages, English (y/n)
- Address, phone number
- Country of birth, province of birth
- Aware/unaware of hepatitis B status prior to pregnancy
- Delivery date
- Provider information, hepatitis B medication status
- Health insurance
- Education level
- Household member's name and birth date

Demographics

Person Summary

Demographic Information [\(View History\)](#)

Name:	[REDACTED]
Maiden name:	[REDACTED]
Gender:	[REDACTED]
Birth Date (mm/dd/yyyy):	[REDACTED]
Death Date:	[REDACTED]
Age:	[REDACTED]
Social Security Number:	[REDACTED]
Race	Asian
Ethnicity	Not Hispanic
Primary language	Chinese
Does person speak English?	No
Chinese dialect	Mandarin
Country of birth	China
Province of birth	Fujian
Country of birth for persons mother	China
Marital status	Married
Person ID:	[REDACTED]
Create Date:	[REDACTED]





Notes [\(Add/Edit\)](#)

Contact Information

Type	Address	County	Country	Phone	GIS Info	Action
Home * Primary	[REDACTED]			[REDACTED]	Incomplete Data	Edit Delete

[Edit Person](#)

Household Contacts

Linked Events/Contacts									
Event ID	Person	Status	Create Date	Disease	Disease Status	PHA	Event Date	Link Type	Linked From
100087014 	[REDACTED]	Closed	03/10/2017	Hepatitis B - Contact		[REDACTED]	03/10/2017	Household Contact	100085871
100075746 	[REDACTED]	Closed	06/14/2016	Hepatitis B - Perinatal - Infant		[REDACTED]	06/03/2016	Vertical	100066624
100067571 	[REDACTED]	Closed	12/11/2015	Hepatitis B - Contact		[REDACTED]	12/11/2015	Sexual Contact	100085871
100091368 	[REDACTED]	Open	08/16/2017	Hepatitis B - Perinatal - Infant		[REDACTED]	08/11/2017	Vertical	100085871

Linked People				
Relationship	Name	Birth Date (mm/dd/yyyy)	Address	Phone
Spouse / Partner	[REDACTED]	[REDACTED]	[REDACTED]	
Child	[REDACTED]	[REDACTED]	[REDACTED]	(H) [REDACTED] (C) [REDACTED]
Child	[REDACTED]	[REDACTED]	[REDACTED]	(H) [REDACTED]

Clinical information (1)

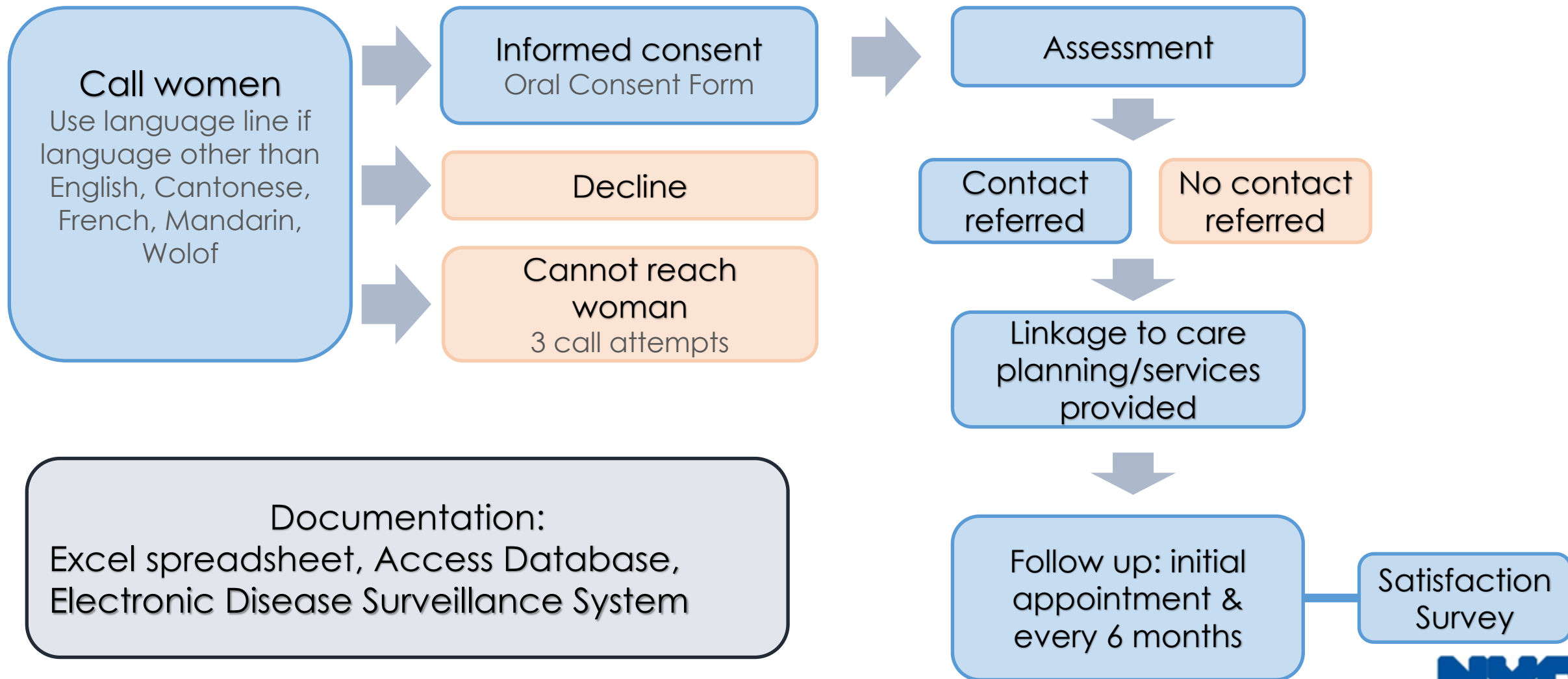
Underlying Conditions and Risk Factors	
<u>When and how did you find out that you have hepatitis B?</u>	Prior to this pregnancy <input type="text"/>
Have you been evaluated for hepatitis B by a doctor during this pregnancy?	Yes <input type="text"/>
<i>Enter Facility Info into Provider's Facility Section.</i>	
Is your prenatal care provider evaluating your hepatitis B? <i>(Note: If mid-level provider, select specialty of supervising physician.)</i>	Yes, OB/GYN <input type="text"/>
Is any other provider besides your prenatal care provider evaluating your hepatitis B?	<input type="checkbox"/> Patient does not know <input checked="" type="checkbox"/> Internist <input type="checkbox"/> Gastroenterologist <input type="checkbox"/> Infectious disease <input type="checkbox"/> Family practice <input type="checkbox"/> Maternal/Fetal Medicine Specialist <input type="checkbox"/> Other <input type="checkbox"/> Unknown <input type="checkbox"/> No
Assisted patient with seeing a liver specialist prior to delivery, (e.g., located a provider, obtained a referral, scheduled an appointment, etc.)	<input type="text"/>
Does person have underlying medical conditions?	No <input type="text"/>
Underlying condition(s)	<input type="checkbox"/> Cirrhosis/liver failure <input type="checkbox"/> HIV infection <input type="checkbox"/> Transplant, solid organ <input type="checkbox"/> Hepatitis C <input type="checkbox"/> Syphilis <input type="checkbox"/> Tuberculosis
Have you ever shared needles to inject drugs such as heroine, or shared drugs that are snorted such as cocaine or methamphetamine?	No <input type="text"/>
Did your mother ever have hepatitis B?	Yes <input type="text"/>
Did anyone else in your immediate family ever have hepatitis B?	Yes <input type="text"/>
Received hemodialysis treatment?	No <input type="text"/>
Health care worker?	No <input type="text"/>
Receipt of a blood transfusion, clotting factor, or other blood products	No <input type="text"/>
History of multiple STD's?	No <input type="text"/>
Have you ever had household contact with someone who had hepatitis B?	Yes <input type="text"/>
Have you ever had sexual contact with someone who had hepatitis B?	No <input type="text"/>
<u>Education</u>	College <input type="text"/>



Clinical information (2)

Evaluation and Treatment	
Post-partum Interview Date	02/23/2018 Add New
Interview Method	Phone
Who answered questions?	Mother
Interviewed By	[REDACTED]
<p>If your baby moves out of New York City before age 2 years, we will stay in touch with you to get copies of their vaccine records and blood testing after they move. Do you give the New York City Department of Health permission to allow medical providers to view your child's immunization record through the health department's immunization registry? (Only ask for babies who may move out of NY State)</p>	<input type="radio"/> Parent/guardian gave consent <input type="radio"/> Parent/guardian refused to give consent <input checked="" type="radio"/> Parent/guardian was not contacted to obtain consent
Were you evaluated for hepatitis B by a doctor during this pregnancy?	Yes
<p>Enter Facility Info into Provider's Facility Section. Was your prenatal care provider evaluating your hepatitis B during your pregnancy? (If mid-level provider, select specialty of supervising physician.)</p>	Yes, OB/GYN
Was any other type of provider evaluating your hepatitis B during your pregnancy?	Internist
Were you prescribed medication for hepatitis B during this pregnancy?	Yes
Antiviral1: What kind of medication were you prescribed for the hepatitis B?	Tenofovir Disoproxil Fumarate (Viread)
Antiviral1: Who prescribed this medication?	Internal medicine
Antiviral1: Did you take this medication during this pregnancy?	Yes
Antiviral1: Treatment Start Date: When did you start taking the medicine? (if date unknown, use the 15th)	05/15/2017
Antiviral1: Treatment Stop Date: Did you stop taking the medicine? (if date unknown, use the 15th)	MM/DD/YYYY
Antiviral2: What kind of medication were you prescribed for the hepatitis B?	[REDACTED]
<p>PATIENT NAVIGATION: Hepatitis B is a chronic liver infection and regular check-ups by a hepatitis B doctor are important to protect your health. A patient navigator from the Health Department will call you to talk about a voluntary program that can help you or your contacts get into affordable medical care, or get testing and vaccination for hepatitis.</p>	<input checked="" type="radio"/> Patient was notified <input type="radio"/> Patient declined to have a Navigator contact her <input type="radio"/> Patient was not contacted post-partum
Notes Note written by: [REDACTED] Date and time: [REDACTED]	Contacted the mother for postpartum interview. The mother was monitored of hep B by her OB and PCP, and she has been taking Viread from PCP before this pregnancy, and continued until present. Advised the mother to continue follow up with her PCP.
<p>If you have a doctor who you have seen for your hepatitis B in the past, please call them for an appointment. Otherwise, ask your primary care doctor for a referral.</p>	
What is the status on completing Medical Information questions?	Yes, completed

Outreach & Intervention

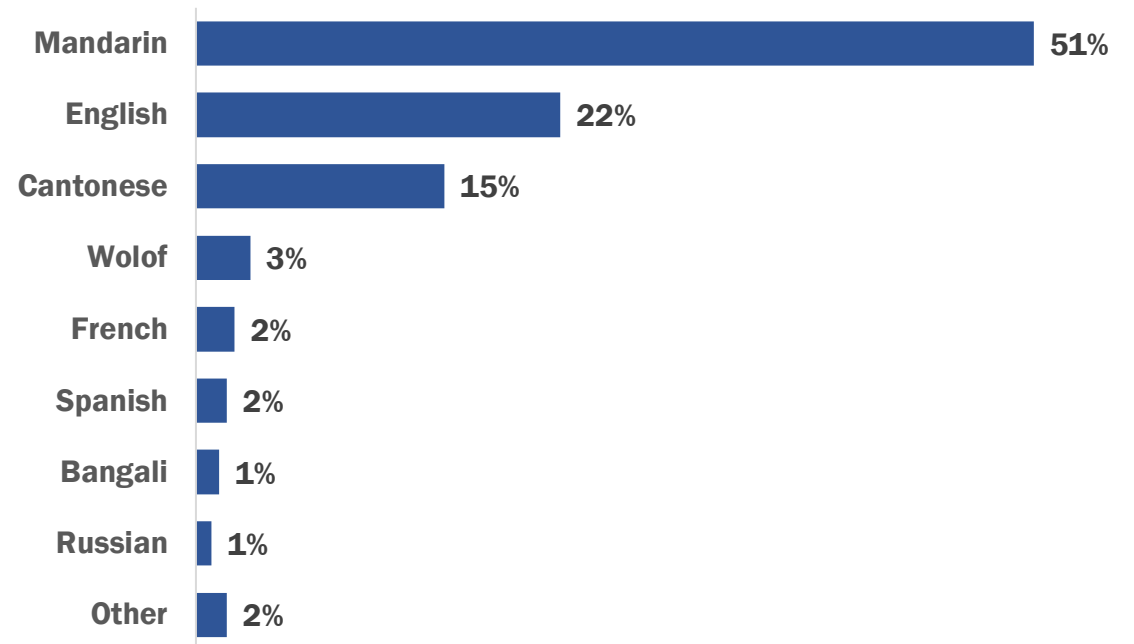


Progress & Barriers

Progress to Date

- **226** enrolled
- **100%** foreign-born
- **27%** uninsured or had temporary insurance only
- **51%** cannot speak/read English
- **22%** had concerns about cost of medical care
- **13%** had trouble filling out basic medical forms
- **33%** needed help to schedule a medical appointment
- **28%** had no regular source of medical care

Preferred language of women enrolled in Hep B Moms Patient Navigation Program



Of those enrolled for at least 3 months, 87% have attended a hepatitis B medical appointment

Participants have many questions



Transmission

- When did I get infected?

Symptoms

- What are the signs that someone is infected?

Vaccination and Immunity

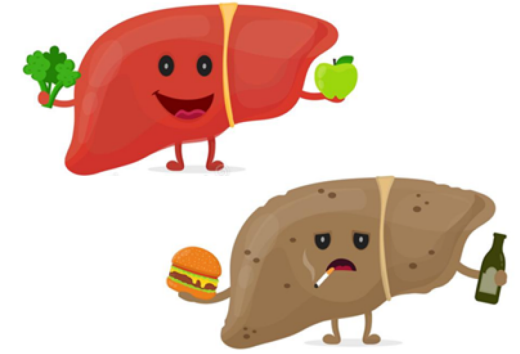
- I received 3 doses of hepatitis B vaccine, how did I get infected?
- Is my husband protected for life if he received all 3 vaccine doses?
- How long does the immunity last? Is there any way to check?

- Can you help my husband get tested without disclosing my status?

Treatment

- Can I be cured?
- When can I stop following up with a provider?
- What can I do to make my viral load stay low?
- How long do I need to stay on treatment?
- Do I need to continue taking hepatitis B medication after delivery?

And voice common concerns



Insurance/cost of care

- How much do I need to pay for hepatitis B care if I lose my health insurance?
- Does my health insurance cover liver ultrasound, lab, and medication?
- Are there any free hepatitis B testing and vaccination services?

Life style

- Can I use cooking wine?
- My ALT level had never been abnormal before, is it because I could not sleep well at night?

Baby

- Is the baby going to be ok if they get vaccinated?
- What happens if the baby didn't get the vaccines on a regular schedule?
- What can I do to protect the baby?
- Would my baby get infected through breastfeeding?
- Is it safe to use hepatitis B medication while breastfeeding?

They may face many barriers to care

Healthcare System	Individual	Fear (stigma, legal)
<ul style="list-style-type: none"> Lack of hepatitis B information and support 	<ul style="list-style-type: none"> Lack of awareness “I am feeling well” 	<ul style="list-style-type: none"> Fear to be on lifelong or long-term medication
<ul style="list-style-type: none"> Did not inform patient about what was tested (patient believed providers already checked ‘everything’) 	<ul style="list-style-type: none"> Lack of knowledge (e.g. hepatitis B is genetic and nothing to do about it) 	<ul style="list-style-type: none"> Uncomfortable returning to provider when not taking medication
<ul style="list-style-type: none"> Provider advised “everything is fine” 	<ul style="list-style-type: none"> Lost health insurance 	<ul style="list-style-type: none"> Doubt about western medicine and search for alternatives
<ul style="list-style-type: none"> No interpretation services provided at front desk or when patient called in 	<ul style="list-style-type: none"> Forgot about the appointment 	<ul style="list-style-type: none"> Concern about using Medicaid would damage green card application
<ul style="list-style-type: none"> Additional documents were requested for sliding fee scale 	<ul style="list-style-type: none"> Having hepatitis B care is not a priority 	<ul style="list-style-type: none"> Advised to not to use any gov’t funded programs

And often have no idea about

Primary Care



vs. Specialist

Treatment Algorithm for HBeAg-Positive Patients

HEPATITIS

HBeAg Positive

- HBV DNA < 20,000 IU/mL
 - No treatment
 - Monitor every 6-12 mos
- HBV DNA ≥ 20,000 IU/mL
 - ALT normal
 - Monitor ALT every 3-12 mos (immune tolerant)
 - Consider biopsy if age > 35-40 yrs and treat if significant disease
 - ALT elevated
 - Treat
 - Adefovir, entecavir, peginterferon, and possibly telbivudine are first-line options

SYMPTOMS AND SIGNS OF HEPATITIS-B

- * Jaundice
- * Fever
- * Fatigue in a short period
- * Loss of appetite
- * Gastrointestinal problems
- * Abdominal Pain





In conclusion

Health promotion and patient navigation are the key services to engage people in hepatitis B care!

Project Partners

Perinatal Hepatitis B Prevention Program:
Julie Lazaroff • Ariba Hashmi • All the Public Health Advisors

Check Hep B Programs:
Charles B. Wang Health Centers • Seventh Avenue Family
Health Center at NYU Langone • BronxCare Medical
Practices • Korean Community Services • African Services
Committee

And many others!



To contact us

Farma Pene, BS
fpene@health.nyc.gov

Jessie Schwartz, MPH, RN
jschwartz2@health.nyc.gov

Liz Tang, LMSW
ltang@health.nyc.gov

New York City Department of Health and Mental Hygiene,
Viral Hepatitis Program

