

Hepatitis B Elimination Strategies

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Charles B. Wang Community Health Center

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COMMUNITY HEALTH CENTER
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Agenda

- About us
- Screening
- Outreach efforts
- Vaccination and linkage to care
- Future goals



Charles B. Wang Community Health Center

- Non-profit and Federally Qualified Health Center (FQHC) in New York City
- Primarily serve the low-income, Asian American community
- Multidisciplinary care – Internal Medicine, Pediatrics, OB/GYN, Mental Health, Social Work, and Dental
- Hepatitis B programs – linkage to care and care management for high-risk chronic hepatitis B patients, free HBV screening program, prevention of perinatal HBV transmission



Screening for Hepatitis B

- Educate and remind providers about screening for hepatitis B
- For all new internal medicine patients
 - Universal screening helps eliminate barriers and stigma
 - Low-cost blood test can be included in routine laboratory labs without additional cost to patients
- Free screening for community members – walk in
- Free screening for contacts of chronic hepatitis B patients
 - Based on a study of our patient population, household contacts of chronic hepatitis B patients: 49% with prior infection, 22% with chronic hepatitis B*
- Starting to offer screening for contacts of HBcAb+ patients



Health Maintenance

Refused	Order	Latest Refusal
<input type="checkbox"/>	VACCINATIONS Flu vax:	
<input type="checkbox"/>	<input type="checkbox"/> COVID-19 Vax: 09/18/21 P 09/06/21 P <input type="checkbox"/> Unverified Covid Vax	
<input type="checkbox"/>	<input type="checkbox"/> Td:	
<input type="checkbox"/>	<input type="checkbox"/> Tdap:	
<input type="checkbox"/>	<input type="checkbox"/> Hep B:	
<input type="checkbox"/>	<input type="checkbox"/> HepBisav:	
<input type="checkbox"/>	<input type="checkbox"/> Hep A:	
<input type="checkbox"/>	<input type="checkbox"/> PPSV-23:	
<input type="checkbox"/>	<input type="checkbox"/> PCV-13:	
<input type="checkbox"/>	<input type="checkbox"/> MMR:	
<input type="checkbox"/>	<input type="checkbox"/> Varicella:	
<input type="checkbox"/>	<input type="checkbox"/> Meningococcal:	
<input type="checkbox"/>	SCREENING HBs-Ag: HBs-Ab: HBc-Ab:	
<input type="checkbox"/>	HBs-AB Quant:	
<input type="checkbox"/>	HAV-Ab:	
<input type="checkbox"/>	HCV-Ab:	
<input type="checkbox"/>	HIV: HIV Testing Offered: <input type="text"/>	
<input type="checkbox"/>	Mammo:	
<input type="checkbox"/>	Pap:	
<input type="checkbox"/>	HPV DNA:	
<input type="checkbox"/>	Colonoscopy: Due	
<input type="checkbox"/>	Sigmoidoscopy: Due	
<input type="checkbox"/>	FIT: Due	

10-Yr CVD Risk: (%) Statin:

Update Orders - 21 ALICE TEST 777 48 Years Old Female, (DOB: 10/27/1972)

Orders: This update Open All Primary Coverage: **Dental Quest (DENTAL) (FF)** Potential Diagnoses:

!	Date	Description	Status	Diagnoses

Custom List Categories Search Order Details

Use custom list:

<input type="checkbox"/> COMMON	<input type="checkbox"/> RPR Panel	<input type="checkbox"/> Hep D Ab, Total	<input type="checkbox"/> Legionella Urine Ag	<input type="checkbox"/> ESR	<input type="checkbox"/> Rubella IgG	<input type="checkbox"/> Vit D, 2
<input type="checkbox"/> DM	<input type="checkbox"/> AFP	<input type="checkbox"/> PSA	<input type="checkbox"/> Stool: Cult	<input type="checkbox"/> Iron	<input type="checkbox"/> VZV IgG	<input type="checkbox"/>
<input type="checkbox"/> Comp Met	<input type="checkbox"/> HBsAg/sAb/cAb	<input type="checkbox"/> PSA: MdCARE	<input type="checkbox"/> Stool: FIT	<input type="checkbox"/> Fe/TIBC	<input type="checkbox"/> Rheum Factor	<input type="checkbox"/> AFB S
<input type="checkbox"/> Lipid	<input type="checkbox"/> HBsAg/HBsAb	<input type="checkbox"/> PT/INR	<input type="checkbox"/> Stool: FIT, Mcare	<input type="checkbox"/> Ferritin	<input type="checkbox"/> Prolactin	<input type="checkbox"/> HAV Ig
<input type="checkbox"/> HbA1c	<input type="checkbox"/> HB Core Ab	<input type="checkbox"/> PTT	<input type="checkbox"/> Stool: H.pylori Ag	<input type="checkbox"/> Folate	<input type="checkbox"/> PTH Intact	<input type="checkbox"/> HBV G
<input type="checkbox"/> Urine Microalb	<input type="checkbox"/> HBe Ab/Ag	<input type="checkbox"/> URINE / STOOL	<input type="checkbox"/> Stool: O&Px3, no Giard	<input type="checkbox"/> FibroSure	<input type="checkbox"/> Phosphorus	<input type="checkbox"/> HBV R
<input type="checkbox"/> CBC w/Diff	<input type="checkbox"/> HBV DNA	<input type="checkbox"/> Chlam/GC (Urine)	<input type="checkbox"/> BLOOD OTHER	<input type="checkbox"/> FSH /LH	<input type="checkbox"/> T4, free	<input type="checkbox"/> HSV 1
<input type="checkbox"/> Comp Met	<input type="checkbox"/> HBsAb, Quant	<input type="checkbox"/> Urine: Cult	<input type="checkbox"/> ANA	<input type="checkbox"/> HIV 4th Gen	<input type="checkbox"/> T3, Total	<input type="checkbox"/> HCV P
<input type="checkbox"/> TSH	<input type="checkbox"/> HAV Ab	<input type="checkbox"/> Urine: Cytology	<input type="checkbox"/> CPK	<input type="checkbox"/> Measles IgG	<input type="checkbox"/> Testosterone, Male	<input type="checkbox"/> COVID
<input type="checkbox"/> UA	<input type="checkbox"/> HCV Ab w/refx	<input type="checkbox"/> Urine Drug Screen	<input type="checkbox"/> CRP	<input type="checkbox"/> Mumps IgG	<input type="checkbox"/> Uric Acid	<input type="checkbox"/> COVID

Hep B Moms

IF YOU HAVE HEPATITIS B, PROTECT YOUR BABY
USE THIS CHART TO TRACK YOUR CARE AND YOUR BABY'S CARE


If you have hepatitis B, the virus can be transmitted to your newborn through your blood at birth. The baby can then carry this serious disease for a lifetime. To prevent infection, make sure your baby is protected with immunizations. Also, see your doctor regularly to take care of your hepatitis B and avoid liver damage.

DURING PREGNANCY


- Get blood tests.
 - Hep B Viral Load
 - Liver tests
 - Hep B e antigen
- If your disease is severe, your doctor may talk to you about taking hepatitis B medication.
- Make sure your spouse and those living with you are tested for hepatitis B.
- See a doctor regularly for hepatitis B.

AT BIRTH

- Tell the staff at the hospital you have hepatitis B.
- Baby must receive 2 shots within 12 hours of birth to protect from infection.




One shot of hepatitis B immunoglobulin (HBIG)




1st shot of hepatitis B vaccine
- Once baby gets the HBIG shot and hepatitis B vaccine, it is safe to breastfeed. Hospital staff will give you an immunization card to track baby's shots. Bring this card to all of your baby's doctor visits.

AFTER DELIVERY

1-2 MONTHS

- Make sure your baby receives the **2nd shot** of the hepatitis B vaccine. 

6 MONTHS

- Make sure baby receives the **3rd shot** of hepatitis B vaccine. This shot should not be given before 6 months, or baby will not be fully protected. 

9-12 MONTHS

- Make sure baby gets a blood test to check if he or she is protected after the shots. This is special for babies born to mothers with hepatitis B.
 - HBsAg
 - HBsAb
- Check the test result:
 - Protected
 - Not Protected*
 - Infected
- * If baby is not fully protected from hepatitis B, the doctor will repeat the vaccines.


IF YOUR BABY IS CARED FOR IN CHINA

- The caretaker must tell the new doctor that baby's mother has hepatitis B. It is very important to make sure the baby gets the 2nd and 3rd dose of the vaccine.
- Your baby must get the 3rd shot at 6 months and not earlier.
- Ask the doctor to test your baby by 15 months to check if he or she is protected from hepatitis B. This is not done for all babies, so the caretaker should request it because it is important for your baby. Keep a copy of the results.
- When your child returns to the United States, bring your child's vaccination records from China, and schedule a check up for your child. Immunization records are needed for children to enter to school.



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Protecting Your
 Baby From Hepatitis B
 What Pregnant Women Need to Know



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Community Outreach

- Work with community organizations for co-hosting health events
- Approach religious institutions and pharmacies about free screening
- Approach patients at Charles B. Wang Community Health Center Covid-19 vaccination sites



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For more information on hepatitis B, visit www.cbwhc.org or call (212) 379-6998.




Social Media Outreach

- Facebook, WeChat, Instagram – to post updates on webinars, free screening program and general hepatitis B educational messages
- Radio shows and webinars – presentation on hepatitis B, FAQ, contact information for screening



2 in 3
Asian Americans with hepatitis B
don't know they are infected.

Get tested.

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Vaccination and Linkage to Care

- Free vaccination for susceptible patients
 - Protocols for nursing to help patient complete series
- Sliding-fee scale for uninsured patients who need linkage to care
 - Hep B registry – 9000 patients, approximately 3000 uninsured
 - Low income, mobile workers
- Work with local radiology centers for lower cost imaging studies
- Care management for high-risk patients



Hepatitis B Flowsheet

HBV Registry Added 10/08/2012 Remove

Social HX <input type="button" value="Launch Social History"/> Tobacco <input type="text" value="Yes"/> Alcohol <input type="text" value="Yes 11/16/2016"/>		Labs HBsAg <input type="checkbox"/> Update DUE		Imaging/Fibrosis Staging US Abd MRI Abd CT Abd		<input type="button" value="Update"/>	
Family HX <input type="checkbox"/> No family history HBV or HCC <input type="button" value="Launch Family Hx"/> <input type="button" value="Load History"/>		HBeAg <input type="checkbox"/> Update DUE		Fibrosis Stage DUE		<input type="checkbox"/> Update	
Mother <input type="text"/> Father <input type="text"/> Brother <input type="text"/> Sister <input type="text"/> Uncle <input type="text"/> Aunt <input type="text"/>		anti-HBe <input type="checkbox"/> Update DUE		Fibrosis Type		<input type="checkbox"/> Update	
M - Grandfather <input type="text"/> M - Grandmother <input type="text"/> P - Grandfather <input type="text"/> P - Grandmother <input type="text"/> Children <input type="text"/>		HBV DNA <input type="checkbox"/> Update DUE		Fib4Score <input type="button" value="Launch Fib4 Score"/>		<input type="checkbox"/> Update	
Questions <input type="checkbox"/> Discussed Household Screening DUE		ALT <input type="checkbox"/> Update DUE		Apri Score <input type="button" value="Launch Apri Score"/>		<input type="checkbox"/> Update	
<input type="text"/> <input type="text"/>		AST <input type="checkbox"/> Update DUE		HCC Risk Estimator <input type="button" value="Launch HCC Risk Estimator"/>		<input type="checkbox"/> Update	
OMH Recruitment DUE		PLATELETS <input type="checkbox"/> Update DUE				<input type="checkbox"/> Update	
		ALBUMIN <input type="checkbox"/> Update DUE				<input type="checkbox"/> Update	
		INR <input type="checkbox"/> Update DUE				<input type="checkbox"/> Update	
		TBLI <input type="checkbox"/> Update DUE				<input type="checkbox"/> Update	
		AFP <input type="checkbox"/> Update DUE				<input type="checkbox"/> Update	
		anti-HAV <input type="checkbox"/> Update DUE				<input type="checkbox"/> Update	
		anti-HCV <input type="checkbox"/> Update DUE				<input type="checkbox"/> Update	
		HIV <input type="checkbox"/> Update DUE				<input type="checkbox"/> Update	
		Genotype <input type="checkbox"/> Update DUE				<input type="checkbox"/> Update	
		anti-HDV <input type="checkbox"/> Update DUE				<input type="checkbox"/> Update	



乙型肝炎

乙型肝炎是由乙型肝炎病毒所引起的嚴重肝臟感染。如沒有接受治療與護理，時間一長，乙型肝炎可能導致肝硬化、肝臟受損甚至肝癌。

即使你沒有感到不適，你仍然應該定期看醫生，瞭解病毒有否損壞你的肝臟。學習如何護肝，保持肝臟健康。

乙型肝炎在亞裔家庭中十分普遍。你的家族病史有助醫生為你選擇最佳的治療方法。如果你的家族成員曾經有以下的病況，請在方格內打勾：

- 乙型肝炎病毒
- 乙型肝炎病毒，並正在或曾經使用藥物
- 肝癌
- 肝硬化

把你的肝臟受到感染這個事實坦誠地告知家人和你關心的人，並鼓勵他們接受測試及注射疫苗。乙型肝炎是可以預防和治療的。

乙型肝炎的護理：

- 遵循預約去看醫生。
- 按照醫生的指示做化驗檢查。
- 善用這張卡，記錄你的健康情況。
- 按照醫生的處方服藥。
- 如果你打算或正在服食中草藥和其他藥物，請告訴你的醫生。因為它們可能對肝臟有害。
- 切勿飲酒，酒能傷肝。

保護你心愛的人：

- 乙型肝炎是透過血液與體液傳播的。
- 在進行性行為時，請使用安全套。
- 請勿與任何人共用牙刷或剃刀。

如果你有任何疑問，請向醫生查詢。

姓名： _____ 診症號碼： _____
Name: _____ PID: _____

定期去看醫生是很重要的。請按照預約的時間做乙型肝炎復診，並帶上這張卡。醫生會把你的測試結果記錄在卡上，讓你可以監察肝臟的健康狀況。
Seeing your doctor regularly is important. Remember to come to your scheduled hepatitis B follow up visits. Bring this card with you. Your doctor will record your lab results on the card. This will help monitor the health of your liver.

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Hepatitis B

Hepatitis B is a serious liver infection caused by the hepatitis B virus. If not cared for or treated, over time hepatitis B can lead to cirrhosis (liver scarring), liver damage and liver cancer.

Even if you don't feel sick, you should still see your doctor regularly. You need to find out if the virus is damaging your liver. Learn how to care for your liver, and keep it healthy.

Hepatitis B is very common in Asian families. Your family history is helpful to your doctor to decide treatment for you. Check all the conditions that anyone in your family has had:

- Hepatitis B virus
- Hepatitis B virus and is/was on medication
- Liver cancer
- Cirrhosis

Be open and tell your family and loved ones about your liver infection. Encourage them to get tested and vaccinated too. Hepatitis B can be prevented and treated.

Tips on how to care for yourself:

- Come to your scheduled appointments.
- Get the lab tests your doctor orders.
- Use this card to keep track of your health condition.
- Take medication as prescribed by your doctor.
- Do not take any herbal products or medicine without telling your doctor. They may damage your liver.
- Do not drink alcohol. It can damage your liver.

Protect your loved ones.

- Hepatitis B can spread through blood and body fluids.
- Use condoms when you have sex.
- Do not share your toothbrush or razor with anyone.

Talk to your doctor about any concerns.

心肝寶貝
悉心保養肝臟
你的個人記錄

B Healthy
Keeping your liver healthy

Your personal record

乙型肝炎病毒(HBV)血液測試結果 YOUR HEPATITIS B VIRUS (HBV) BLOOD TEST

日期 Date	乙肝表面抗原 HBsAg Hepatitis B Surface Antigen	如果這項測試結果呈陽性(+), 表明你已經感染了乙型肝炎病毒。 If this test result is positive (+), it means that you are infected with the hepatitis B virus.
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日期 Date	乙肝表面抗體 HBsAb Hepatitis B Surface Antibody	如果這項測試結果呈陽性(+), 表明你對乙肝病產生免疫力。 If this test result is positive (+), it means that you are immune to the hepatitis B virus.
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日期 Date	乙肝“e”抗原 HBeAg Hepatitis B "e" Antigen	如果這項測試結果呈陽性(+), 通常表明你血液內的病毒數量較高。你把病毒傳染他人的機會較高。當“e”抗原呈陽性, 通常稱為「大三陽」。 If this test is positive (+), it often means the amount of virus in your blood is higher. You may be more likely to spread the virus to others. When "e" antigen is +, it is often described as "big three positive."
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日期 Date	乙肝“e”抗體 HBeAb Hepatitis B "e" Antibody	如果這項測試結果呈陽性(+), 表明你的血液內病毒數量較低。當“e”抗體呈陽性(而“e”抗原呈陰性), 通常稱為「小三陽」。 If this test is positive (+), it can mean that the amount of virus in your blood is lower. When "e" antibody is + ("e" antigen is -), it is often described as "small three positive."
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治療記錄

醫生將根據你的檢查報告、健康情況與家族史來決定你是否需要治療。

TRACK YOUR TREATMENT

Your doctor will decide if treatment is needed based on your test results, health condition and family history.

藥物名稱 Medication Name	劑量 Dosage	開始日期 Start Date	結束日期 End Date

接受檢查，瞭解肝臟狀況 TESTS TO CHECK THE HEALTH OF YOUR LIVER

日期 Date	轉氨酶水平 ALT (U/L)	肝功能測試能夠衡量你的肝臟發炎的程度。假如結果呈上升, 就表明你的肝臟已經受到影響。 Liver function tests measure inflammation in your liver. If the result is elevated, it means your liver is affected.
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日期 Date	乙肝病毒含量 HBV Viral Load (IU/mL)	這項測試能夠顯示你血液內乙型肝炎的病毒含量。如果病毒含量開始上升, 醫生會進一步監察你的健康狀況。 This test shows how much hepatitis B virus you have in your blood. If your viral load starts to increase, your doctor will need to monitor you carefully.
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日期 Date	纖維化評分 Fibrosis Score	它估計肝臟中的疤痕形成量, 數值範圍由F0(正常)到F4(肝硬化)。 It estimates the amount of scarring in the liver from a scale of F0 (normal)- F4 (cirrhosis).
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日期 Date	超聲波 Ultrasound	這能夠幫助檢測肝硬化或肝癌。 It can help detect cirrhosis or cancer in the liver.
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日期 Date	甲胎蛋白 AFP (ng/mL)	這項測試能夠幫助檢測肝癌。 This test can help detect liver cancer.
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日期 Date	甲型肝炎抗體 Hepatitis A Ab (Hepatitis A Antibody)	如果這項測試結果呈陽性(+), 表明你對甲肝病產生免疫力。 If this test result is positive (+), it means that you are immune to the hepatitis A virus.
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日期 Date	丙型肝炎 Hepatitis C	如果這項測試結果呈陽性, 表明你感染了丙型肝炎病毒。 If this test is positive, it means that you are infected with the hepatitis C virus.
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Continuation and Future Goals

1. Expand universal screening to other primary care departments such as GYN, dental
2. Identify more opportunities to work with community organizations



Thank you!

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