## Hepatitis B and Tuberculosis Elimination Programs at North East Medical Services

Amy Shen Tang, MD Director of Immigrant Health Hep B United/TB Elimination Alliance Summit November 2, 2021



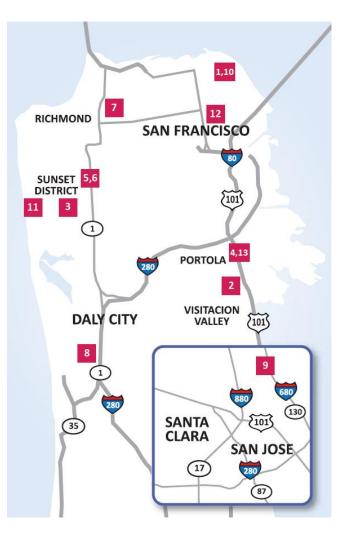
NORTH EAST MEDICAL SERVICES 東北醫療中心 a california health.center

## Background



North East Medical Services (NEMS) was founded in 1968 and began serving patients in 1971 in response to the lack of adequate health care services for uninsured and underprivileged Asians in San Francisco, California.

Over the last 50 years, NEMS has grown from a small primary care clinic in San Francisco's Chinatown to one of the largest community health centers in the United States serving medically underserved Asian Americans and other marginalized populations, with 13 clinic locations across the San Francisco Bay Area.





## **NEMS** Services

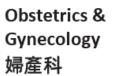






Pediatrics 兒科













Social Services 社會服務部

Pharmacy

Laboratory

Radiology

放射部/X光

化驗部

藥房

**☆** ☆ ☆



**Health Education** 健康教育部



Member Services 會員服務部



Chiropractic 脊椎神經科



TEWE



**Physical Therapy** 物理治療中心

#### Medical Specialties 醫療專科

- Cardiology 心臟科
- Endocrinology 內分泌科 •
- Gastroenterology 腸胃科
- Hand Surgery Consultation 手外科
- Hepatology 肝臟科
- Neurology 神經內科
- Ophthalmology 眼科
- Otolaryngology 耳鼻喉科
- Podiatry 足科 •
- Psychiatry 精神科 •
- Surgery 外科







## Who We Serve

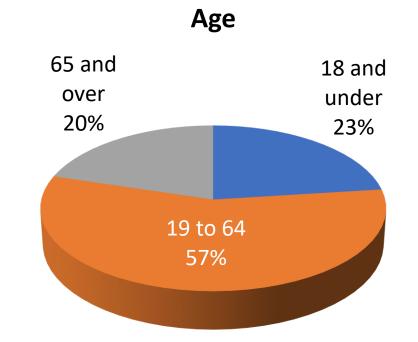
NEMS Patient Demographics 2020

- ~65-70K patients served each year
- 89% Asian

Source: 2020 UDS Report

- 80% Limited English Proficient
- 74% Medi-Cal (California's Medicaid program; including 16% dual eligible Medi-Cal/Medicare)





Percentage of elderly patients age 65+ is higher than San Francisco city (14%) and California state (13%)



## Immigrant Health Disparities at NEMS

As a NEMS service provider, what risk-based health screening needs to be considered for our patients?

What health conditions/diseases <u>disproportionately impact</u> our Asian immigrant population?

- Hepatitis B infection and liver cancer
- Tuberculosis infection
- Smoking and lung cancer
- H pylori infection and stomach cancer



## Prevalence of Most Common Chronic Conditions among NEMS Patients

Diabetes 10% (NEMS UDS 2020) vs. 14% US average (CDC 2018)

Hypertension 21% (NEMS UDS 2020) vs. 47% US average (CDC 2018)

Latent tuberculosis infection 20% vs. 4.7% US average (NHANES 2011-2012)

Chronic Hepatitis B infection 8% vs. 0.3% US average (NHANES 2011-2012)

• 38% of persons infected with hepatitis B (HBsAg-positive) were also infected with tuberculosis (TST- or IGRA-positive)

Selected health conditions and risk factors, by age: United States, selected years 1988–1994 through 2017–2018 https://www.cdc.gov/nchs/data/hus/2019/021-508.pdf



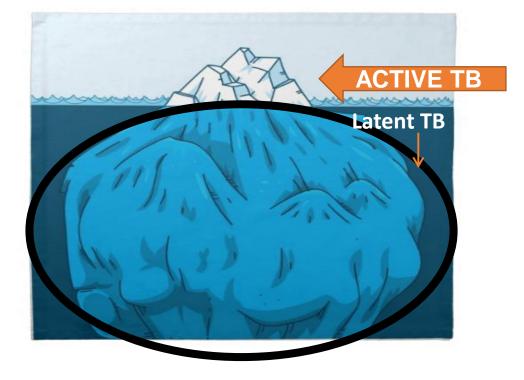
## Tuberculosis at NEMS

• Reactivation of LTBI is the main source fueling active TB.

 ~75% of active TB cases are likely due to reactivation



**1 in 5** NEMS patients infected with tuberculosis in their lifetime



## TB Among Residents in Single Room Occupancy (SRO) Housing

Among 60,856 NEMS patients in San Francisco with at least one UDS eligible medical visit as of 1/1/2019:

- 3,434 (5.6%) reported living at a Single Room Occupancy (SRO) building or apartment
- 582 (17%) of SRO patients have had a positive PPD or QFT (compared to 12.5% of SF patients)
- 304 (51.3%) of SRO patients have been treated ever for TB

Image Source: Robert Wood Johnson Foundation (www.rwjf.org)

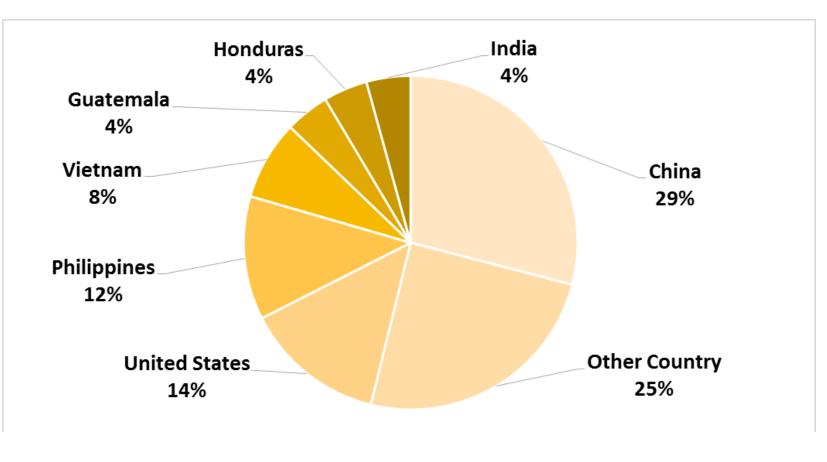
## San Francisco Bay Area: A High TB-incidence Region

Jurisdiction	2019 TB incidence per 100,000 population
United States	2.7
California	5.3
San Francisco	11.9
San Mateo	8.5
Santa Clara	8.4
Los Angeles	5.6

Data source: CDPH TB Control Branch provisional data tables 2019 <u>cdph.ca.gov/Programs/CID/DCDC/Pages/TB-Disease-Data.aspx</u>



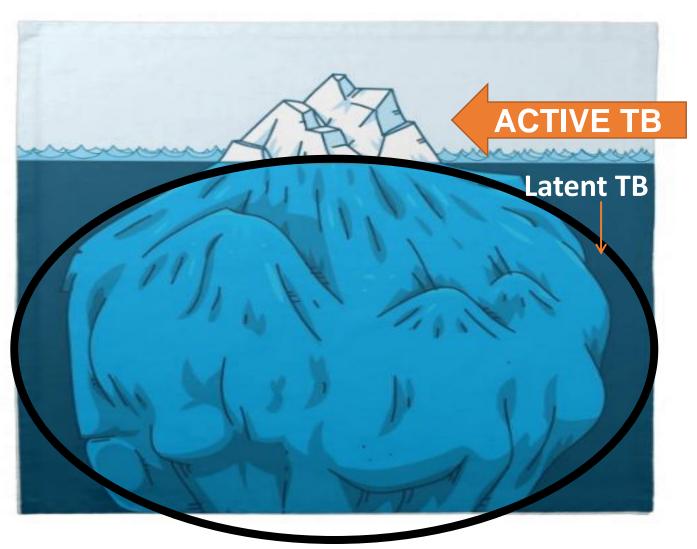
## 86% of San Francisco TB Cases are Born Outside of the U.S. (~50% Born in Asia)



2018 TB Cases by national origin, San Francisco



NORIH EASI MEDICAL SERVICES 11. 醫療中心

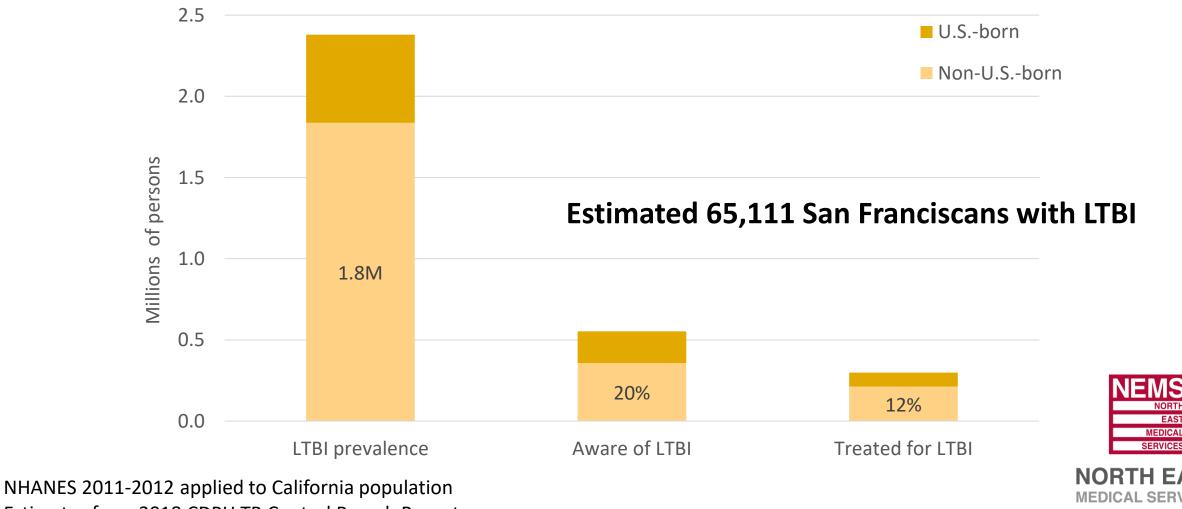


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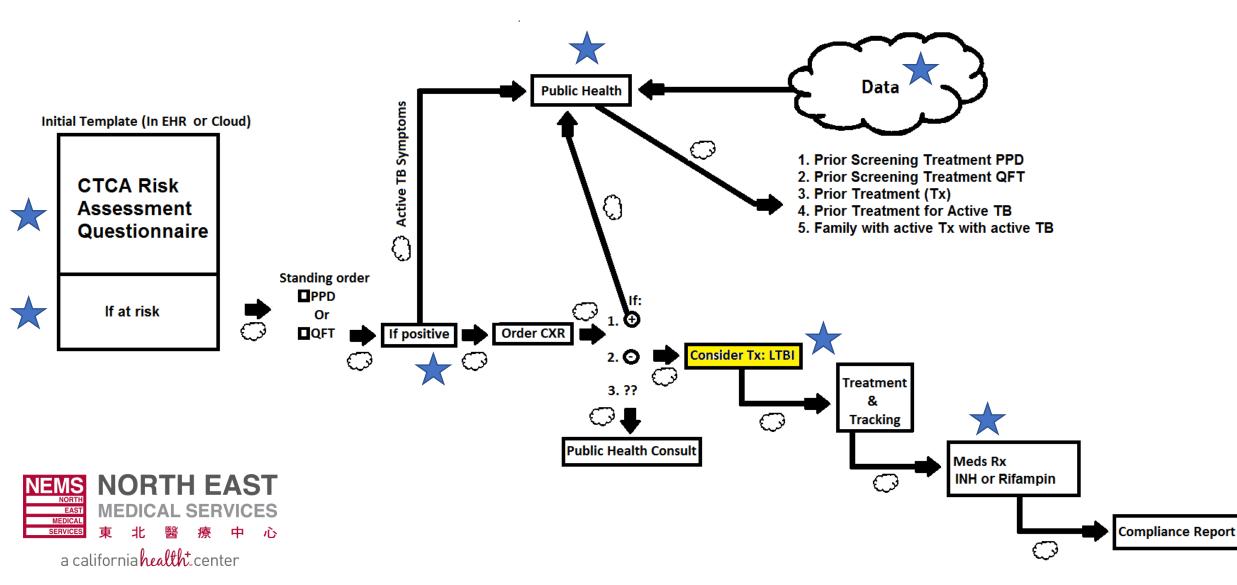


## Untreated LTBI – A Prevention Opportunity!



Estimates from 2018 CDPH TB Control Branch Report

## NEMS LTBI Care Cascade



## EMR TB risk assessment based on the CTCA/CDPH TB Risk Assessment Questionnaire

Patients on hemodialysis and sheltered/homeless were added as risk factors per local SFDPH guidance





#### California Adult Tuberculosis Risk Assessment



- Use this tool to identify asymptomatic <u>adults</u> for latent TB infection (LTBI) testing.
  - Do not repeat testing unless there are new risk factors since the last test.
- Do not treat for LTBI until active TB disease has been excluded:

For patients with TB symptoms or an abnormal chest x-ray consistent with active TB disease, evaluate for active TB disease with a chest x-ray, symptom screen, and if indicated, sputum AFB smears, cultures and nucleic acid amplification testing. A negative tuberculin skin test or interferon gamma release assay does not rule out active TB disease.

#### LTBI testing is recommended if any of the boxes below are checked.

Birth, travel, or residence in a country with an elevated TB rate for at least 1 month

- Includes any country other than the United States, Canada, Australia, New Zealand, or a country in western or northern Europe
- If resources require prioritization within this group, prioritize patients with at least one medical risk for progression (see the California Adult Tuberculosis Risk Assessment User Guide for this list).
- Interferon Gamma Release Assay is preferred over Tuberculin Skin Test for non-U.S.-born persons ≥2 years old

#### Immunosuppression, current or planned

HIV infection, organ transplant recipient, treated with TNF-alpha antagonist (e.g., infliximab, etanercept, others), steroids (equivalent of prednisone ≥15 mg/day for ≥1 month) or other immunosuppressive medication

Close contact to someone with infectious TB disease during lifetime

Treat for LTBI if LTBI test result is positive and active TB disease is ruled out.

**None**; no TB testing is indicated at this time.

**Place of Birth** collected upon patient registration to assist with TB risk stratification.

A place of birth outside of the US, Canada, Australia, New Zealand, or western/northern Europe will automatically notify provider patient is at-risk and to complete the risk assessment to indicate any prior history of TB and/or order TB screening test if not previously ordered.

Demographics					
Place of Birth Chir (Country)	na		Region of Birth (Region or City		
Race Asian	Ethnicity Dec	lined to specify	Ethnicity Details	S Chinese, Japan	ese 🗕
12/17/2020 12:47 PM : "*Intak	e" X				
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#### NEW/Simplified EHR Annual TB Risk Assessment Form

🔚 NEMS TB Annual			×
Annual TB Risk Assessment Place of Birth: Name: Adult Test DOB: 02/29/1992 MRN: 000	Region of Birth:	Year in US:	11/11/189
Name: Addit Test DOB: 02/29/1992 MRN: 000	1001032655	X-Ray Orders	
TB Screening and Treatment History (REQUIRED)		Date Ordered Status	Order
1. Have you ever had a positive TB skin or blood test?	Yes C No/Unsure		
If yes, did you complete preventive treatment?	Yes C No/Unsure		
	Yes C No/Unsure		
If yes, did you complete treatment (6 months or longer)?	Yes C No/Unsure	TB Screening (skin/bloo	d) and IGRA History
	All Negative	Status Order	Completed Interpretation
TB Risk Factors		result PPD 0.1 mL ID	
<ol> <li>Have you spent at least 1 month outside of the US, Canada, Australia, New Zealand, or Western/Northern Europe?</li> </ol>	○ Yes ○ No	completed PPD 0.1 mL ID	// negative 🔻
2. Are you immunosuppressed (e.g. HIV, organ transplant recipient) or currently	○ Yes ○ No	•	•
on/ plan to start immunosuppressive medications (e.g. TNF-alpha antagonist, steroids equivalent of prednisone > 15 mg/d for > 1 month)?		QFT Lab Results (In Hou	-
3. Have you had close contact to someone with infectious TB disease?	C Yes C No	Order	Date Result
4. Are you on hemodialysis for end stage renal disease?	C Yes C No		
5. Have you stayed in a homeless shelter?	○ Yes ○ No	1	
		Outside TB Screening QFT Results or T-Spot	
		OTBOQFT OT-	Spot
Last TB Risk Assessment: 10/26/2017 Not At Risk Order QFT		Date Resu	It Interpretation
C NOT AT RISK Order PPD			
		Estimated order date	
ОК	Cancel		Del Save



 1520 Stockton Street, San Francisco, CA 94133
 2308 Taraval Street

 2574 San Bruno, San Francisco, CA 94134
 1033 Clement Street

 82 Leland Avenue, San Francisco, CA 94134
 211 Eastmoor Aven

 1450 Noriega Street, San Francisco, CA 94122
 1715 Lundy Avenu

 1400 Noriega Street, San Francisco, CA 94122
 1870 Lundy Avenu

 (415) 391-9686 [ (650) 550-3923 ] (408) 573-9686 [ www.nems.org
 1400 Noriega Street, San Francisco, CA 94122

2308 Taraval Street, San Francisco, CA 94116 1033 Clement Street, San Francisco, CA 94118 211 Eastmoor Avenue, Daly City, CA 94015 1715 Lundy Avenue #108-116, San Jose, CA 95131 1870 Lundy Avenue, San Jose, CA 95131 1 www.nems.orz





#### Dear

Date

The result of your QuantiFERON test (QFT) was <u>ABNORMAL</u>. The test result showed that you may have been exposed to tuberculosis. It is important for you to follow up with your primary care provider for additional testing.

Please call us at the phone number listed below to schedule an appointment to see your primary care provider to discuss about additional testing.

Thank you for choosing North East Medical Services (NEMS) for your care.

#### 尊敬的東北會員,

我們想通知您最近在東北醫療中心所做的QuantiFERON測試 (結核菌測試, 簡稱QFT) 的結果<u>不正常</u>。這意味著您可能受到結核菌感染。跟您的主診醫生作進一步檢驗是非常 重要的。

請致電以下的電話號碼預約時間和您的主診醫生討論進一步的檢驗。

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#### 1. Last LTBI discussed

- Date indicates if LTBI treatment is necessary
- Patients who are +LTBI, but don't have a "Last LTBI discussed" date will require the following steps

#### 2. LTBI Additional Info

 Clicking on "Additional Info" will open up the "LTBI Treatment Info" box

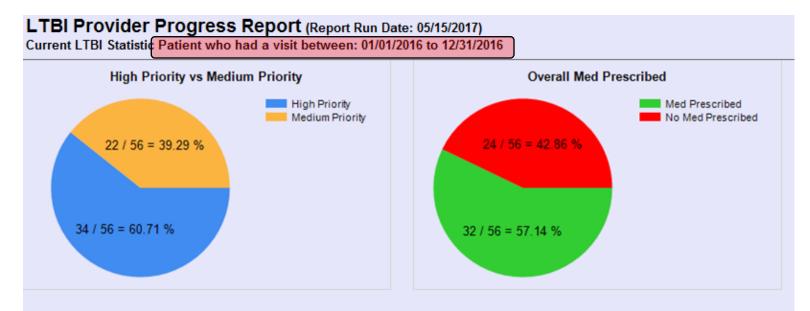
#### 3. LTBI Treatment Info

- LTBI Treatment Info box will display all the necessary follow-up statuses to help providers keep track of LTBI patients.
- Status Options:
  - Will Rx Today
  - Pt Refuse Tx, risks and benefits discussed
  - Already Treated (Report this only if you are confident that duration and treatment was appropriately done)
  - Refer to PCP for Evaluation
  - Other:

#### 4. Provider Note

• Once LTBI Treatment Info is filled out, the provider note will display the LTBI Treatment Info's selected status

## **Individualized Provider Report**



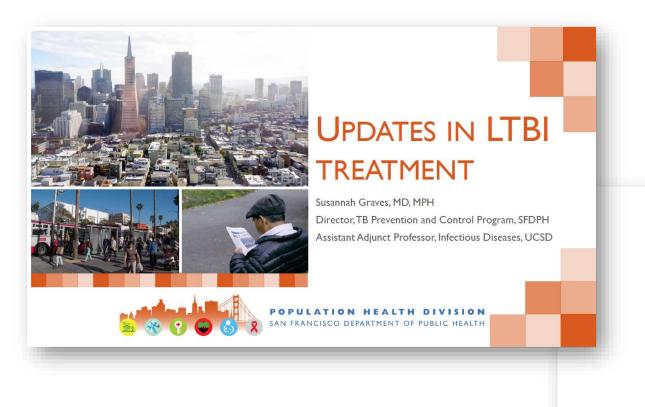
Grand Total 32	1

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Grand Total		32	1	56	= 57.1%	
High Priority	High Priority Total	22	1	34	= 64.7%	
	< 50, Diabetes, & Smoking	1	1	1	= 100.0%	
	< 50 & Smoking	6	1	8	= 75.0%	
	Diabetes & Smoking	1	1	1	= 100.0%	
	< 50 only	11	1	17	= 64.7%	
	Diabetes only	1	1	3	= 33.3%	
	Smoking only	2	1	4	= 50.0%	
Medium Priority	Medium Priority Total	10	1	22	= 45.5%	
	Positive PPD/QFT	10	1	22	= 45.5%	



## Annual TB Provider Education by Local Public Health Department



#### Latent Tuberculosis Infection (LTBI) 101

Janice Louie, MD, MPH, Medical Director Rocio Agraz-Lara, RN, PHN, Nurse Manager San Francisco Tuberculosis Control and Prevention Program 2019



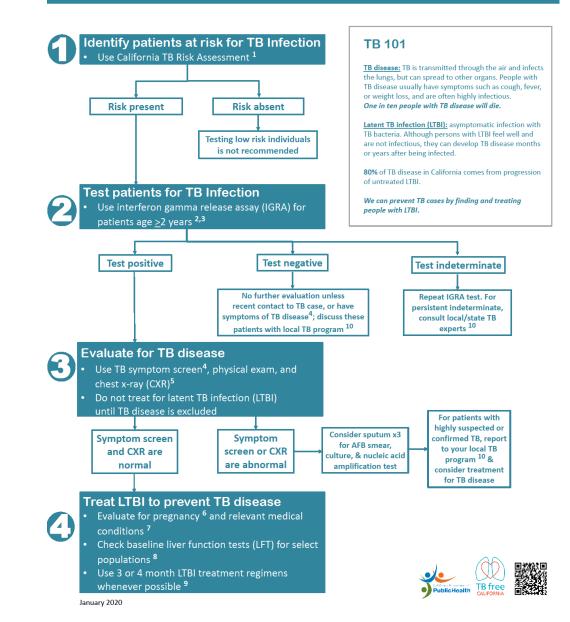
a california healtht center



OPULATION HEALTH DIVISION

NEMS providers receive TB Free California's LTBI treatment workflow algorithm, especially useful to new providers to reference

#### Prevent Tuberculosis (TB) in 4 Steps: A Guide for Medical Providers



#### **Promoting TB Awareness Among Our Patients**

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#### is living with TUBERCULOSIS (TB) infection

Keep your family safe. Find our your TB status! 保護您的家人 **確認您是否有肺結核感染** 

在加州,每 / 位美籍亞裔中就有 / 位

感染 肺結核(TB) Center for Tuberculosis



University of California San Francisco



# NEMS' TB partners

#### POPULATION HEALTH DIVISION

SAN FRANCISCO DEPARTMENT OF PUBLIC HEALTH

#### **DISEASE PREVENTION & CONTROL**





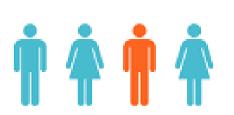
## Hepatitis B at NEMS



**1 in 3** adult patients at NEMS were infected with hepatitis B in their lifetime and are at risk for hepatitis B reactivation and liver complications if immunosuppressed

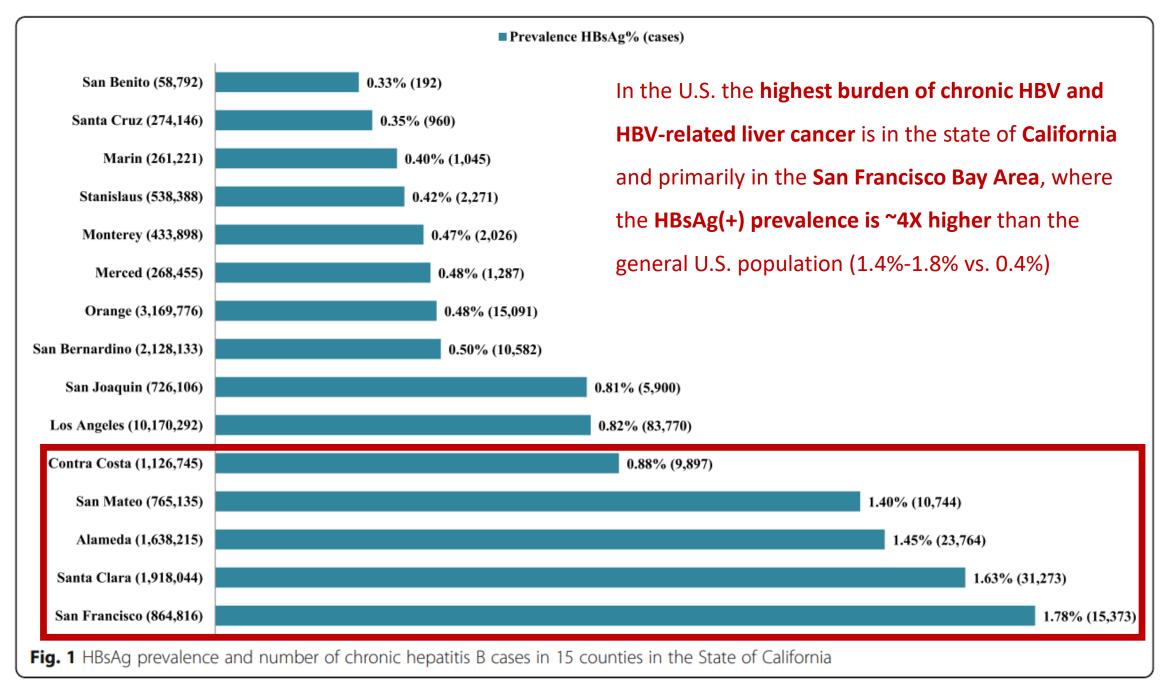
1 in 12 of adult patients at NEMS have chronic hepatitis B infection

- Many did not know they were infected until tested by NEMS provider
- Globally, only 1 in 3 persons with chronic hepatitis B are aware of their diagnosis



**1** in **4** persons with chronic hepatitis B will suffer liver complications such as liver cancer or cirrhosis if unmonitored or untreated

**1 in 4** pregnant women with hepatitis B in San Francisco receive their prenatal care at NEMS



Toy et al. Racial/ethnic- and county-specific prevalence of chronic hepatitis B and its burden in California. Hepatology, Medicine and Policy (2018) 3:6

## Hepatitis B/C Microelimination at NEMS

Screen	Vaccinate	Prevent	Mitigate
Screen all adult patients for HBV and HCV status	Vaccinate all HBV susceptible patients	Prevent HBV perinatal transmission	Minimize/prevent liver complications through routine monitoring, liver cancer surveillance, liver fibrosis staging, and treatment of patients with chronic HBV and HCV infection

#### Educate

Educate providers on HBV/HCV care and patients about HBV/HCV transmission and risk factors

#### Advocate

Advocate for policies to increase screening, vaccination and affordable treatment

## NEMS Hepatitis B/C Universal Adult Screening

Screen

Screen all adult patients for HBV and HCV status Why screen all adult patients at NEMS for hepatitis B and C? Hepatitis B

- USPSTF 2020: Test adolescents and adults at increased risk for infection
- > 90% of our patients are Asian or Pacific Islander and estimated > 80% foreign-born (based on preferred language)
- High HBV burden among adults at NEMS: 8% HBsAg+ (current infection) and 36% anti-HBc+ (ever infected)
- Test for current or prior infection –OR- need for vaccination (only ~25% U.S. adults are vaccinated)

#### **Hepatitis C**

• USPSTF 2020: One-time, routine, opt out HCV testing for asymptomatic adults aged 18 to 79 years (Grade B)

### EHR Clinical Guidelines

Next Gen Clinical Guidelines reminder for one-time HBV and HCV screening for all patients 18 years or older

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	Domestic Violence So	reening (	05/04/2020	due	//	[comments]
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	(q10 Years, 19 Years and up					
	🗆 Tdap	(	05/04/2020	due	//	[comments]
	(Once, 11 Years and up)					

## **HBV Vaccinations at NEMS**

2-dose (Heplisav-B) vaccine for non-pregnant adults\*

3-dose (Engerix) HBV vaccines for high-risk pregnant women

Birth dose for all infants, complete HBV vaccine series for all infants/children

Hep B immune globulin and post-vaccination serologic testing for infants born to Hep B Moms

#### Prevent

Prevent HBV perinatal transmission

#### **Departmental HBV Champions** Rena Hu, MD, Ob/Gyn Cami Le, MD, Pediatrics

#### **HBV Provider Site Champions**

Sandar Htun, MD, Eastmoor Priscilla Tang, NP, Stockton Jason Owyang, NP, Noriega Connie Tran, NP, San Bruno

#### Perinatal HBV Care Management Specialist

Lixin Zhang, CPSP Provider & GI/UM Specialist

## NEMS Hep B Moms Program

Perinatal HBV education and care coordination

Household contacts testing for HBV

Linkage to care with a NEMS HBV provider before and after pregnancy and HBV antiviral treatment to prevent mother-to-child transmission of HBV

Timely HBV immunoprophylaxis, complete HBV vaccinations, and post-vaccination serology testing for infants born to Hep B Moms.

## NEMS Hep B Moms Roadmap

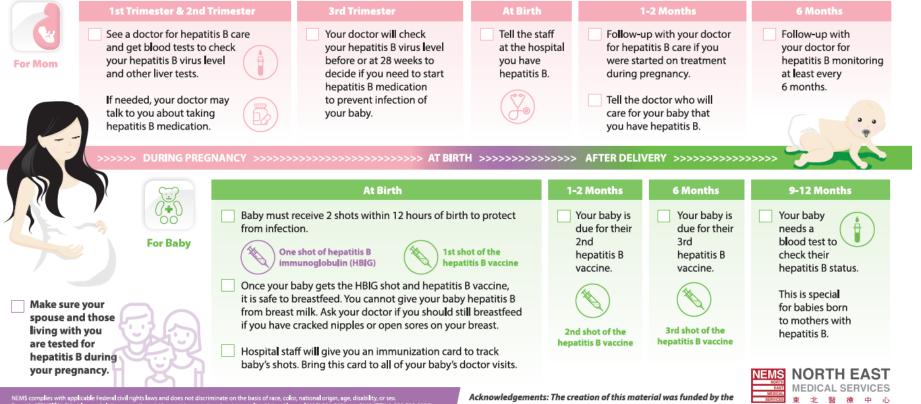
If you are pregnant and have hepatitis B, the virus can easily infect your newborn through your blood at birth. The baby can then carry this serious disease for a lifetime. To prevent infection to your baby and damage to your liver, make sure you see your doctor for hepatitis B and your baby is protected with immunizations.

#### Use this chart to track your care and your baby's care!

#### If You Have Hepatitis B Protect Your Baby & Your Health

a california healtht center

NEMS - Rev. 12/2020



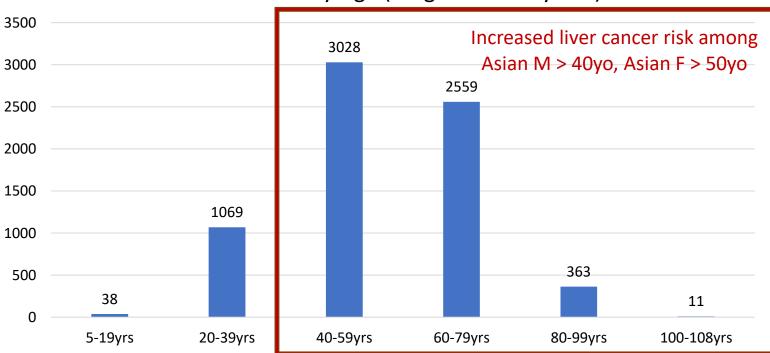
NEMS complies with applicable Federal civil rights laws and does not discriminate on the basis of race, color, national origin, age, disability, or sex. Spanish ATENCION: Si haba español, tiene a su disposición servicios gratuitos de asistencia lingüística. Lame al (415), 391–9686 ext. 8160 (TTY: 1-800-735-2929). Chiness 注意: 如果常使用中文, 你可以免費獲得語言蛋奶服務, 醋氧電 (415), 391–9686 構造器 8160 (TTY: 1-800-735-2929), Vietnamese CHÜ Y. Néu ban nól Tiếng Việt, có các dịch vu hó trợ ngôn ngữ miền phi dành cho ban. Gọi số (415) 391–9686 ext. 8160 (TTY: 1-800-735-2929).

Acknowledgements: The creation of this material was funded by the Prevent Cancer Foundation and modeled after Charles B. Wang Community Health Center's Hep B Roadmap.

## Hepatitis B Registry

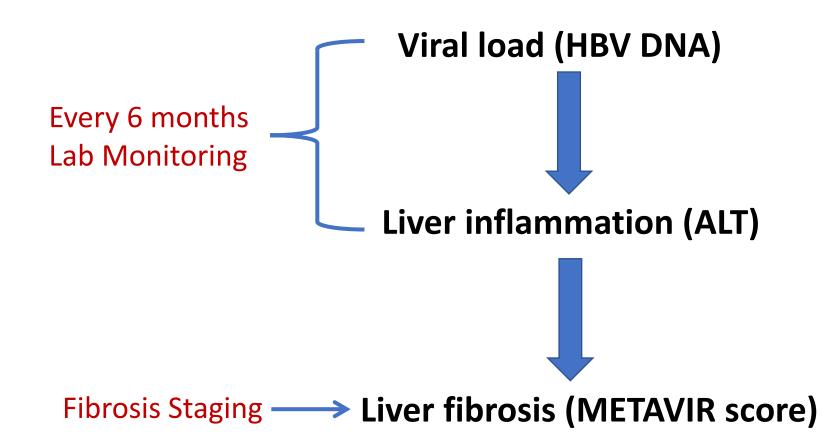
- ~7000 patients with HBsAg(+), HBV DNA positive, or ICD-code B18.1 chronic hepatitis B
  - 96% Asian; 51% female
- ~3175 with a medical visit within the last year
- ~60 with a prenatal visit within the last year

#### Mitigate Minimize/prevent liver complications through routine monitoring, liver cancer surveillance, liver fibrosis staging, and treatment of patients with chronic HBV infection



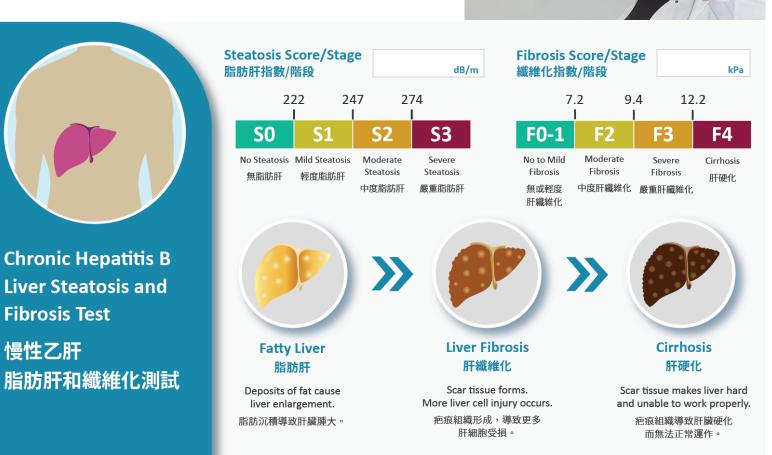
#### #HBV Patients by Age (range 5 to 108 years)

## How do we risk-stratify patients for HBV complications?



## NEMS Liver Fibrosis Staging Program

- Fibroscan Clinic twice monthly at Stockton Clinic
- No longer need to refer to CPMC/UCSF for Fibroscan
- All viral hepatitis B and C patients recommended to have baseline fibrosis assessment
- Can also consider Fibroscan for patients with NAFLD/NASH, alcoholic liver disease/steatosis, persons with elevated ALT of unknown etiology, diabetes



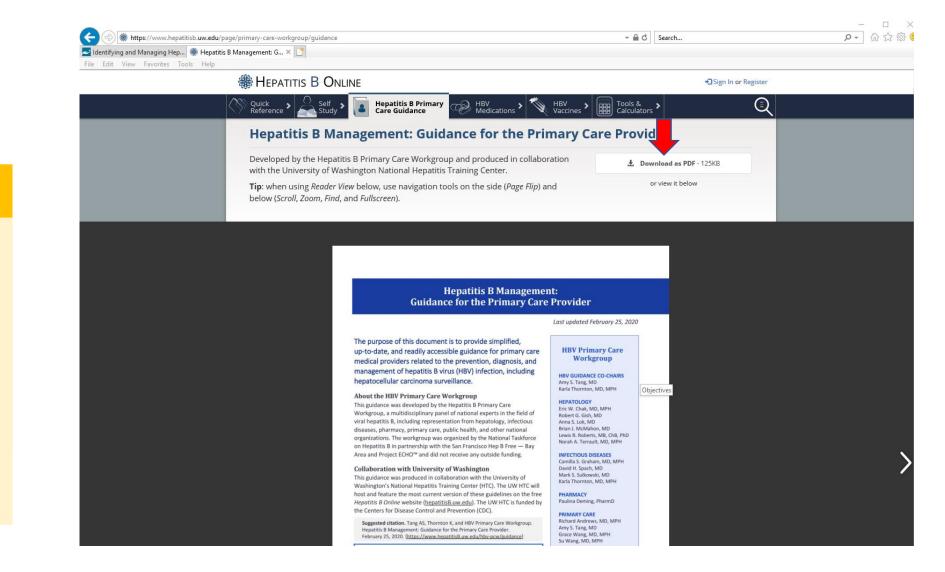
## Hepatitis B Liver Cancer Surveillance Program

NEMS Radiology began using **Ultrasound Liver Imaging Reporting And Data System (US LI-RADS)** in Fall 2020 to standardize liver cancer surveillance recommendations

Liver US recommended every 6 months (twice yearly) for HBV and HCV patients with cirrhosis and HBV Asian M > 40yo, Asian F > 50yo, or family history liver cancer.

However, only ~30% of M> 40 and F > 50 in NEMS' HBV Registry have had at least 1 liver imaging study in the last year

LI-RADS® v201 US Core	7 US Category	US Visualization Score	Last Viewed	Algorithm					
Step 1. Assign US LI-RADS <sup>®</sup> Category									
Screening or surveillance US in patient at high risk for HCC <sup>a</sup>									
US category									
US-1 Negative									
US-2 Subthreshold									
US-3 Po	sitive								
Category	Concept	D	efinition						
US-1 Negative	No US evidence of HC	C	o <u>observation</u> <b>OR</b> nly definitely benign	observation(s)					
US-2 Subthreshold	Observation(s) detecte warrant <u>short-term US</u>		bservation(s) < 10 m efinitely benign	m in diameter, not					
US-3 Positive	Observation(s) detecter warrant multiphase con enhanced imaging	ntrast- d	<u>bservation</u> (s) ≥ 10 m efinitely benign <b>OR</b> ew thrombus in vein	m in diameter, not					



HBV ECHO hosted by SF Hep B Free—Bay Area, case-based learning sessions between Bay Area HBV specialists and primary care providers

#### Educate

Educate providers on HBV/HCV care and patients about HBV/HCV transmission and risk factors Hep B/C Elimination Advocacy and Policy

California AB 789 (Low/Gibson) Hep B and C Screening and Referral to Care

 This bill requires routine hep B and C screening in primary care healthcare settings and referral to care as appropriate



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Where we fall short on reaching hepatitis B and Celimination goals

Liver cancer surveillance ultrasounds

HBV and HCV treatment, referral out and lost to f/u

HBV household contacts and community screening

HBV vaccination, not vaccinating all susceptible, incomplete vaccinations

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## NEMS' Hepatitis B Partners



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