



## **CREATING AN HBV-FREE FUTURE IN SAN FRANCISCO**

*Making San Francisco the first U.S. city with all Asians tested and vaccinated for hepatitis B*

### **PROJECT RATIONALE**

- In San Francisco, 1 in 10 Asian Americans have chronic hepatitis B (HBV).
- Due to lack of symptoms, awareness and testing, most Asians are unaware of their infections. Many were born to infected mothers and got HBV before entering the U.S.
- If nothing is done, 1 in 4 Asians living with chronic HBV will die from liver disease or liver cancer. *This means that as many as 6000 people in San Francisco will die from this vaccine-preventable disease.*

### **PROJECT GOALS**

1. To get all Asians in San Francisco, who are 19 years or older, tested for HBV and vaccinated if needed by 2009 through:
  - A city-wide HBV awareness and education campaign via mass media for 2 years
  - Free, monthly testing/vaccination clinics in San Francisco for 2 years
2. To offer free HBV testing for 5000 people a year (for a total of 10,000 in 2 years).
3. To offer free 3-shot vaccinations for 2000 people a year (for a total of 4000 in 2 years).

### **BACKGROUND**

- San Francisco has one of the largest Asian American communities in the nation, with Asians making up one-third of the city's population.
- The greatest health disparity between Asians and white Americans is liver cancer.
- The incidence of liver cancer in Asians is the highest of any racial/ethnic group.
- Liver cancer is the second most common cause of cancer death in Asian men.
- The overwhelming majority of liver cancers in Asians (80%) is caused by chronic HBV.
- In San Francisco, prevalence of chronic HBV infection among Asians may run as high as 100 times that of the general population, with an estimated prevalence of 10-15%.
- The California Liver Cancer Prevention Plan calls for all Asians in the state to be tested and vaccinated for HBV by the year 2010.

### **PROJECT PLAN**

Our strategy will be a 2-pronged approach to reach all Asian Americans in San Francisco:

1. Launch a city-wide HBV awareness and education campaign via mass media (TV, radio, bus ads, newspapers, flyers/brochures, internet, etc.) to educate and encourage all Asians to go to their doctors for HBV testing and vaccinations.



2. Offer free, monthly testing/vaccination clinics in San Francisco, targeting particularly the high-risk, foreign-born Asian American population:
  - We will offer 12 free, monthly testing/vaccination clinics a year.
  - Each clinic will be 5 hours, staffed by volunteers, 2 nurses and 6 phlebotomists.
  - Approximately 417 people will be tested and 167 vaccinated at each clinic.
  - By the end of one year, 5000 people will be tested and 2000 vaccinated.
  - This program will particularly benefit people without health insurance.

## EXPECTED FINDINGS

- We will offer free HBV testing for 5000 people a year. Of those tested:
  - 50%, or 2500 people, are expected to be protected already (due to past infection or prior vaccination) and do not need vaccinations.
  - 40%, or 2000 people, are expected to be unprotected and need vaccinations.
  - 10%, or 500 people, are expected to have chronic HBV:
    - 50% of those infected, or 250 people, may require antiviral treatment.
    - 13% of those requiring antiviral treatment, or 33 people, may not have insurance and will be referred to the Chinatown Public Health Center.

## PROJECTED YEARLY BUDGET

<i>Expenditures</i>	<i>Accounting</i>	<i>Estimated cost</i>
HBV antigen/antibody tests plus reporting for 5,000 people	\$30/(both tests plus reporting) x 5000 ppl	\$150,000
3-shot vaccinations against HBV for 2000 people	\$25.35/shot x 3 shots x 2000 ppl	\$152,100
6 phlebotomists to draw blood at testing/vaccination clinics	6 phlebo x \$20/hr x 5 hrs/clinic x 12 clinics	\$7,200
2 nurses to give vaccinations at testing/vaccination clinics	2 nurses x \$45/hr x 5 hrs/clinic x 12 clinics	\$5,400
City-wide HBV awareness and education campaign via mass media to promote HBV testing and vaccinations	TV, radio, bus ads, newspapers, flyers, brochures, internet	\$35,300
<b>ANNUAL TOTAL</b>	=	<b>\$350,000</b>



## SUMMARY

- This city-wide collaborative project will be the first of its kind in the United States.
- The requested budget will provide free HBV testing for 5000 people and free 3-shot vaccinations for 2000 people a year.
- Our unprecedented health education campaign will call for all Asians in the city to get tested and vaccinated for HBV.
- *This project will help save thousands of lives and is a critical first step to making San Francisco the first American city with a HBV-free future.*

## APPENDIX

A. This figure shows data from the 2003 California Health Interview Survey and describes our target population. The numbers are for Asians, 19 years or older, living in San Francisco.

Asian ethnicity groups (5 levels)	Est. N	%
Chinese	124,000	61.7
Filipino	31,000	15.4
Korean	13,000	6.5
Vietnamese	16,000	8.0
Other single/multiple Asian type	17,000	8.4
<b>TOTAL</b>	<b>201,000</b>	<b>100</b>

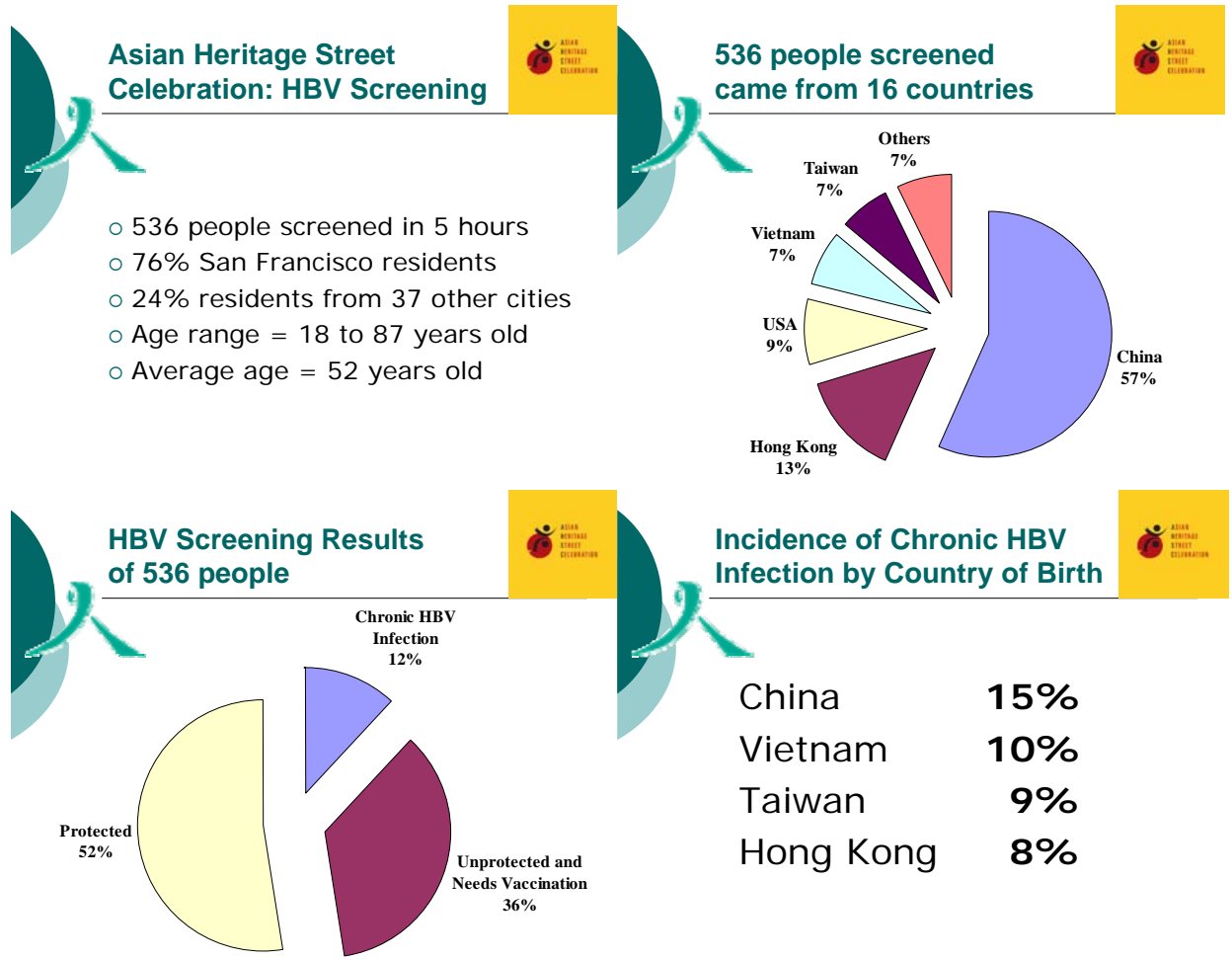
Male	Est. N	%	Female	Est. N	%
Chinese	46,000	22.9	Chinese	79,000	39.3
Filipino	15,000	7.4	Filipino	15,000	7.4
Korean	5,000	2.5	Korean	8,000	4.0
Vietnamese	8,000	4.0	Vietnamese	8,000	4.0
Others	6,000	3.0	Others	11,000	5.5
<b>TOTAL</b>	<b>80,000</b>	<b>39.8</b>	<b>TOTAL</b>	<b>121,000</b>	<b>60.2</b>

Insured	Est. N	%	Not Insured	Est. N	%
Chinese	106,000	52.7	Chinese	18,000	8.9
Filipino	29,000	14.4	Filipino	2,000	1
Korean	11,000	5.5	Korean	2,000	1
Vietnamese	14,000	7.0	Vietnamese	2,000	1
Others	15,000	7.5	Others	2,000	1
<b>TOTAL</b>	<b>175,000</b>	<b>87.1</b>	<b>TOTAL</b>	<b>26,000</b>	<b>12.9</b>



## APPENDIX

**B.** These are the results of a HBV testing clinic we held at the Asian Heritage Street Celebration in San Francisco in 2006. Our budget is based on the reasonable assumption of similar results.





## APPENDIX

C. This figure shows prevalence of chronic HBV in China, where most of our target population is born. Our projection that 10% of those we test will have chronic HBV is based on this data.

