



Screening at BMI 23 for Asian Americans: Impact on San Francisco Health Network

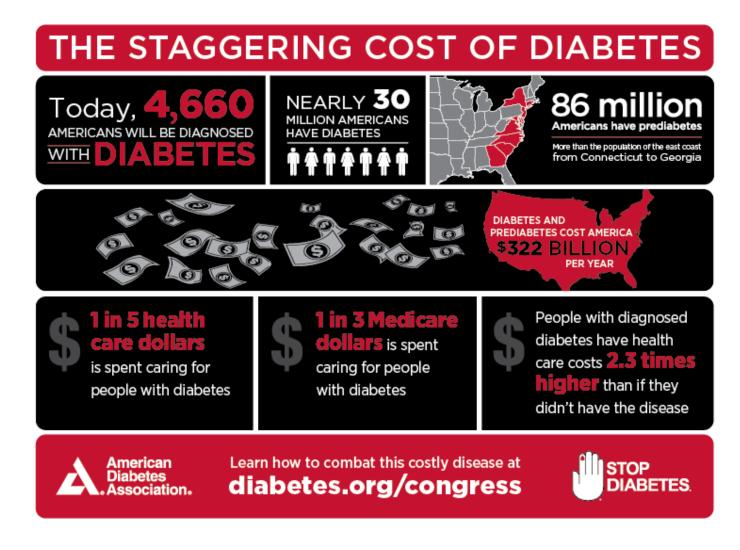


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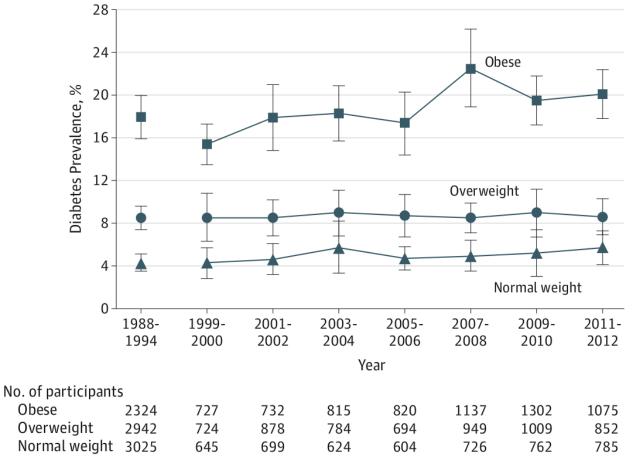
Gain insight into ways in which screening at 23 can be leveraged to improve population health







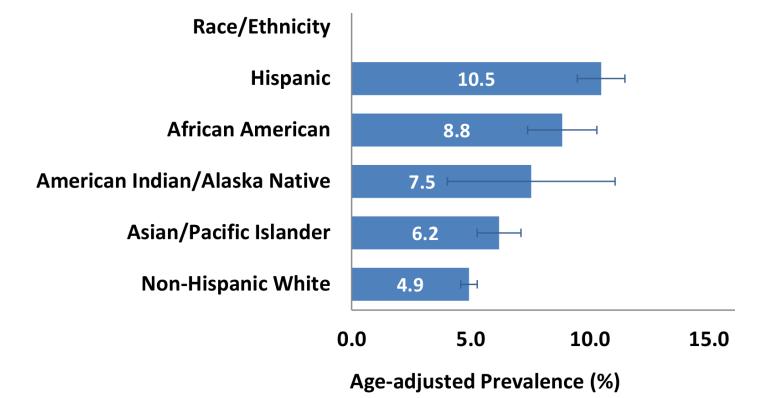
US Trends in Diabetes Prevalence by BMI Category



Menke A, et al. Prevalence of and Trends in Diabetes Among Adults in the United States, 1988–2012. JAMA. 2015; 314: 1021–1029

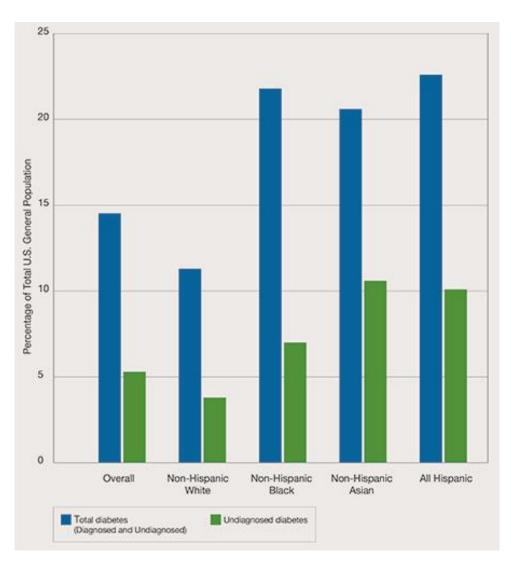


California Type 2 Diabetes by Race/Ethnicity, 2011–2012



Burden of Diabetes in California, Calif Department of Public Health, Sept 2014



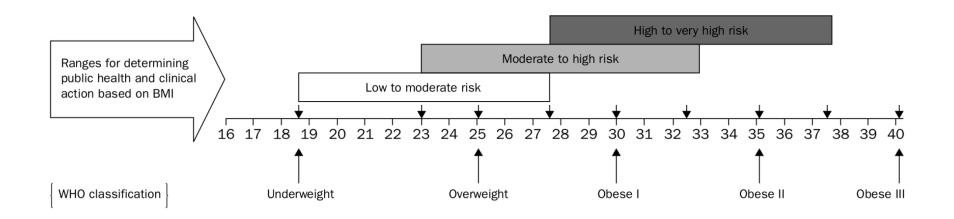


Percentage of the U.S. adult Population with diabetes (blue bars) and the percentage who have diabetes that has not been diagnosed (green bars).

Menke A, et al. Prevalence of and Trends in Diabetes Among Adults in the United States, 1988–2012. JAMA. 2015; 314: 1021–1029



Body-mass index cut-off points for public health action



Source: WHO. Appropriate body-mass index for Asian populations. Lancet 2004; 363: 157–63



Recognition and Consensus Recommendations

- World Health Organization (2004)
- Countries in Asia (China, Japan, India, etc)
- American Diabetes Association (2015)
- National Council of Asian Pacific Islander Physicians
- San Francisco Health Commission Resolution (2015)

Resource: Hsu WC, et al. BMI Cut Points to Identify At-Risk Asian Americans for Type 2 Diabetes. Diabetes Care. 2015; 38: 150–158



PRIMARY CARE SITES

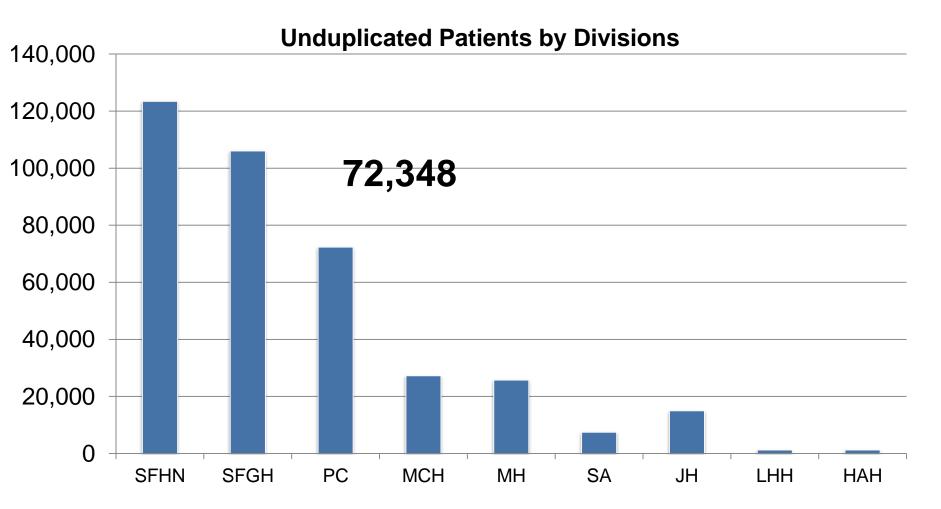






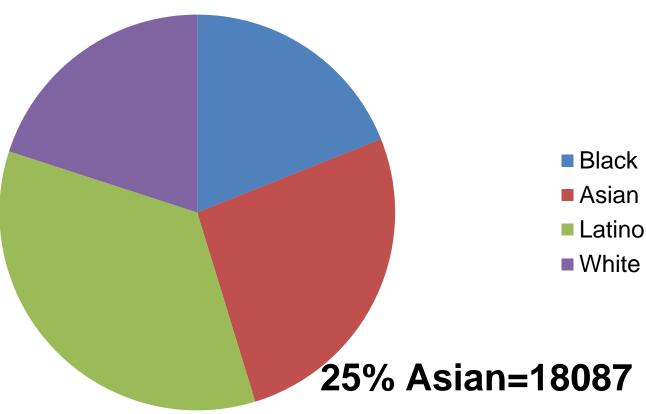


SFHN by the Numbers





SFHN PC: Numbers by Race Primary Care



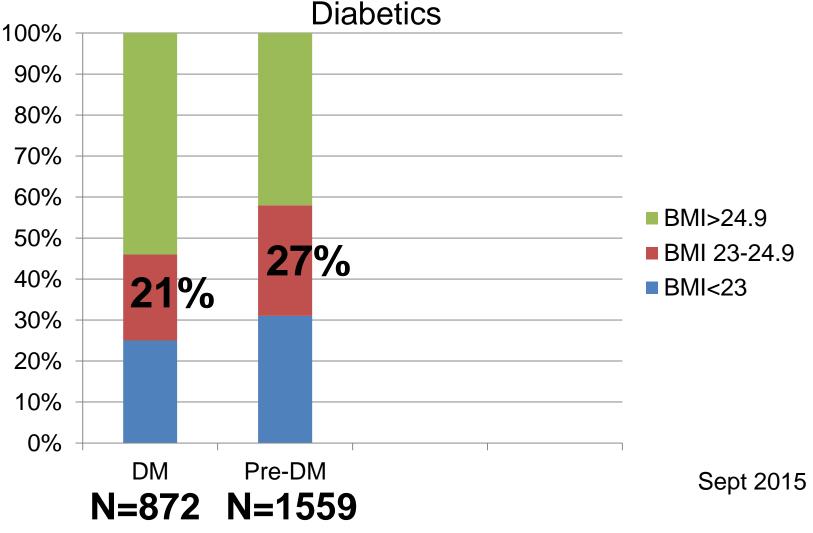


Chinatown Public Health Center

- Community Primary Care
- ✤5446 active unduplicated patients
- ✤90% Asian Americans (27% of SFHN PC)
- ♦ 872 CPHC patients have diabetes = 16%
- ✤1559 CPHC patients have pre-diabetes = <u>29%</u>
- ✤BMI ≥ 23 = 3243 (59% CPHC patients)
- ✤BMI ≥ 25 = 2033 (37% CPHC patients)
- ✤BMI 23-24.9 = 1210 (22% CPHC patients)



BMI Breakdown of Current CPHC Diabetics and Pre-





Impact on SFHN

- ✦Additional Patients Screened = 4015 (#Asian Americans at BMI 23-24.9 = 18087 x 22%)
- Additional Pre-Diabetics = 1148 (4015 x 29%)
 pre-Diabetics)
- ✦Additional Diabetics = 642 (4015 x 16% Diabetics)



Cost Benefit Analysis

Benefits

- Earlier detection and intervention
- Preventing costly complications (e.g. stroke, heart attack, kidney disease, loss of vision, loss of limb) and hospitalizations
- Lower loss of productivity

<u>Costs</u>

- Simple screening blood test (HgbA1c)
- Low cost treatment (e.g. generic metformin) and interventions (diet modification, exercise)



On The Ground

CPHC began screening at 23 for Asian Americans in April 2015

Minimal impact on operation

Diabetes Prevention Program pilot with local YMCA: pre-diabetic patient referral

Revamped diabetes class with emphasis on self-management

Pre-DM/DM panel management



Population Health

Tremendous opportunities exist to effect positive health gains on a population level.

Population health strategy

Leveraging EMR

Panel management

Team-based care

Collaboration with CBOs

Building the infrastructure to execute this strategy

Acknowledgment:

Tomas Aragon, Francisco Department of Public Health Health Officer, City and County of San Francisco

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