

Farmworker Housing Development Corporation: Health Status of Residents (2007-2016)

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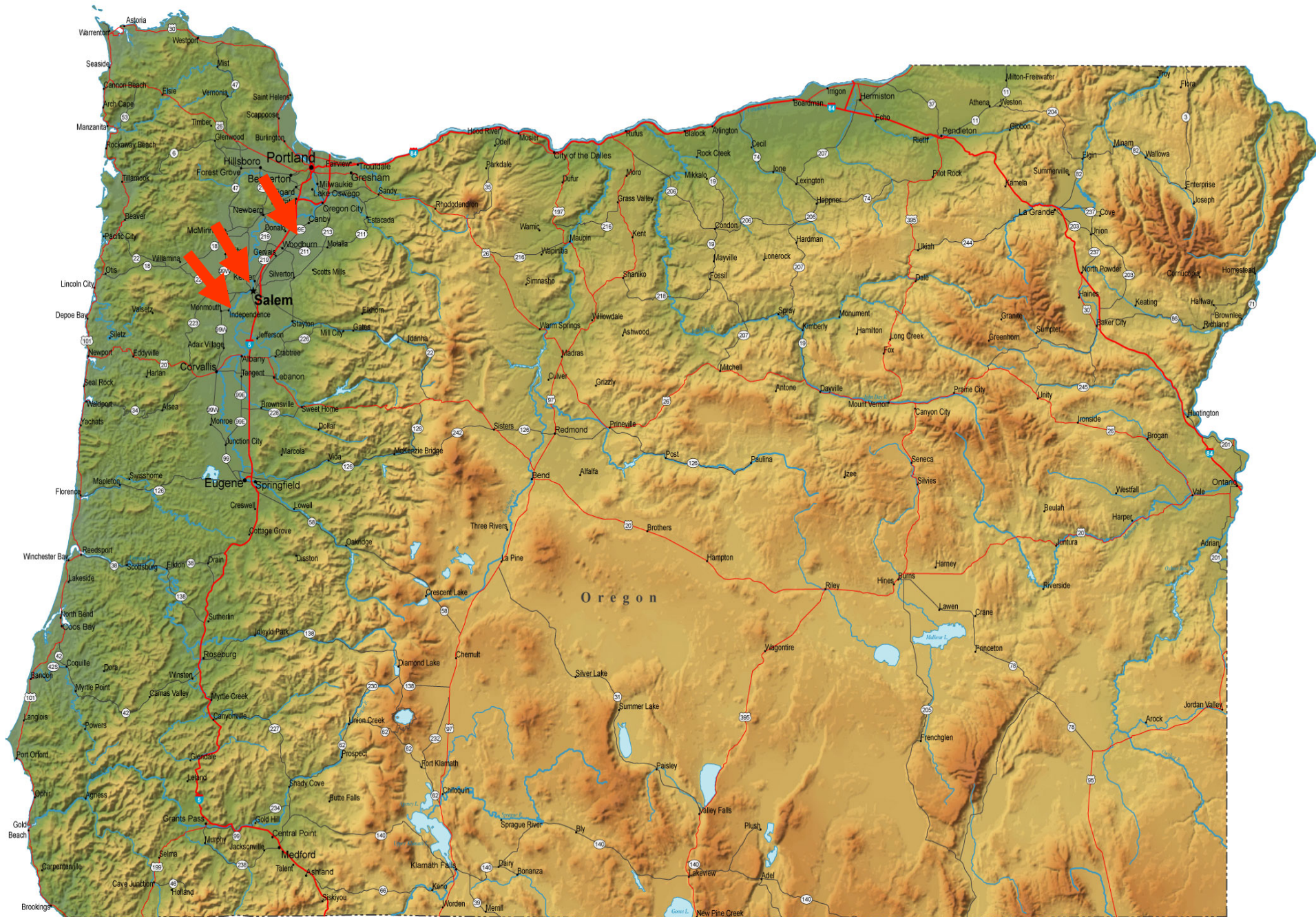
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Purpose

- ❖ Collaboration between Farmworker Housing Development Corporation (www.fhdc.org) and Oregon Social Learning Center (2007-2011), now Center for Equity Promotion, University of Oregon (2012-2016)
- ❖ Health status of FHDC residents
- ❖ Examination of associations between
 - stress (biological and self-report)
 - psychosocial and cultural processes





Pilot Study Sites: Independence, Salem & Woodburn, Oregon

Assessment

❖ Health measures

- Basic anthropometrics
- Blood pressure (BP)



❖ Interview

- Hispanic Familism
- Hispanic Stress Inventory
- Perceived Discrimination
- Health status & behavior (NHIS, BRFSS)



Participants (2007-2010)

- ❖ 137 residents of Farmworker Housing Development Corporation (FHDC) complexes
 - ❖ Sex: 47 men, 90 women (18-73 years)
 - ❖ Age: mean = 37.0 years ($SD \pm 12.3$)
 - ❖ Foreign-born: 97% ($n = 132$)
 - ❖ Average time in U.S.: 11.3 years ($SD \pm 8.5$)



Participants (2016)

- ❖ 122 residents of Farmworker Housing Development Corporation (FHDC) complexes
 - ❖ Sex: 23 men, 99 women
 - ❖ Foreign-born: 99% (n = 122)
 - ❖ Average time in U.S.: 14.5 years



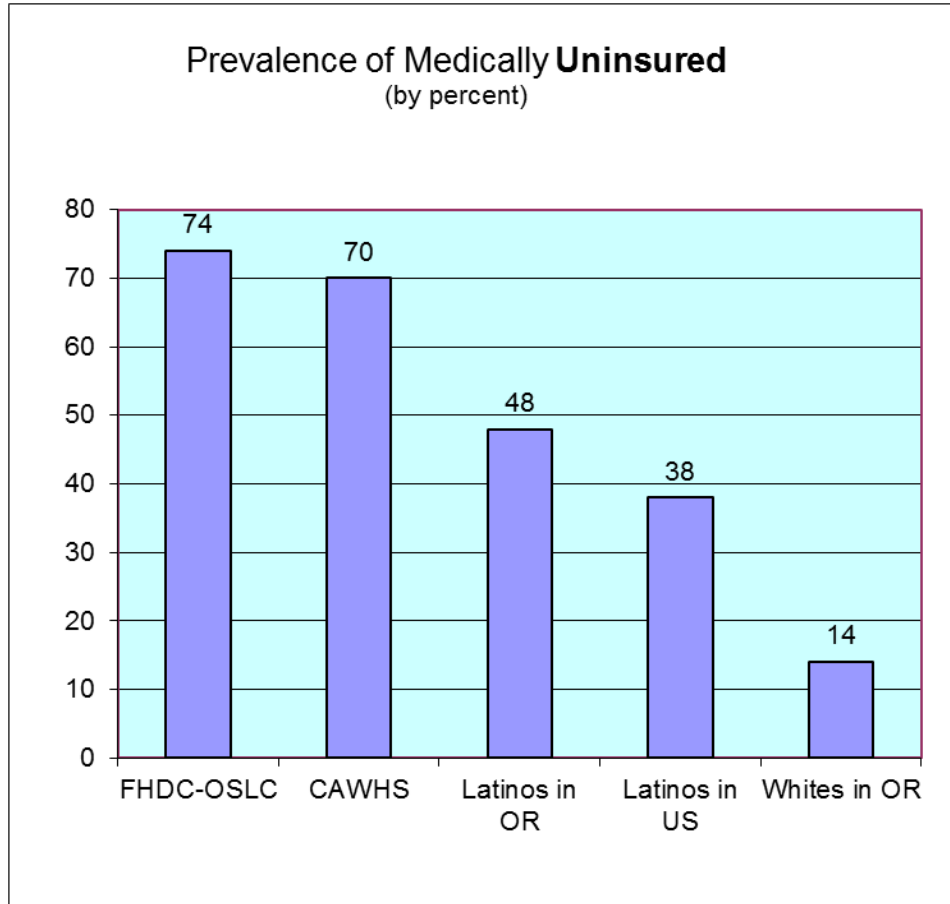
Annual household income

- ❖ Average annual household income in 2008: \$15,586
(vs \$46,349 for Oregon)
- ❖ Average annual household income in 2016: \$18,250
(vs \$50,521 for Oregon)

Source in 2016: <http://www.census.gov/quickfacts/table/LFE305214/41>



Barriers to maintaining good health (2007-2010)



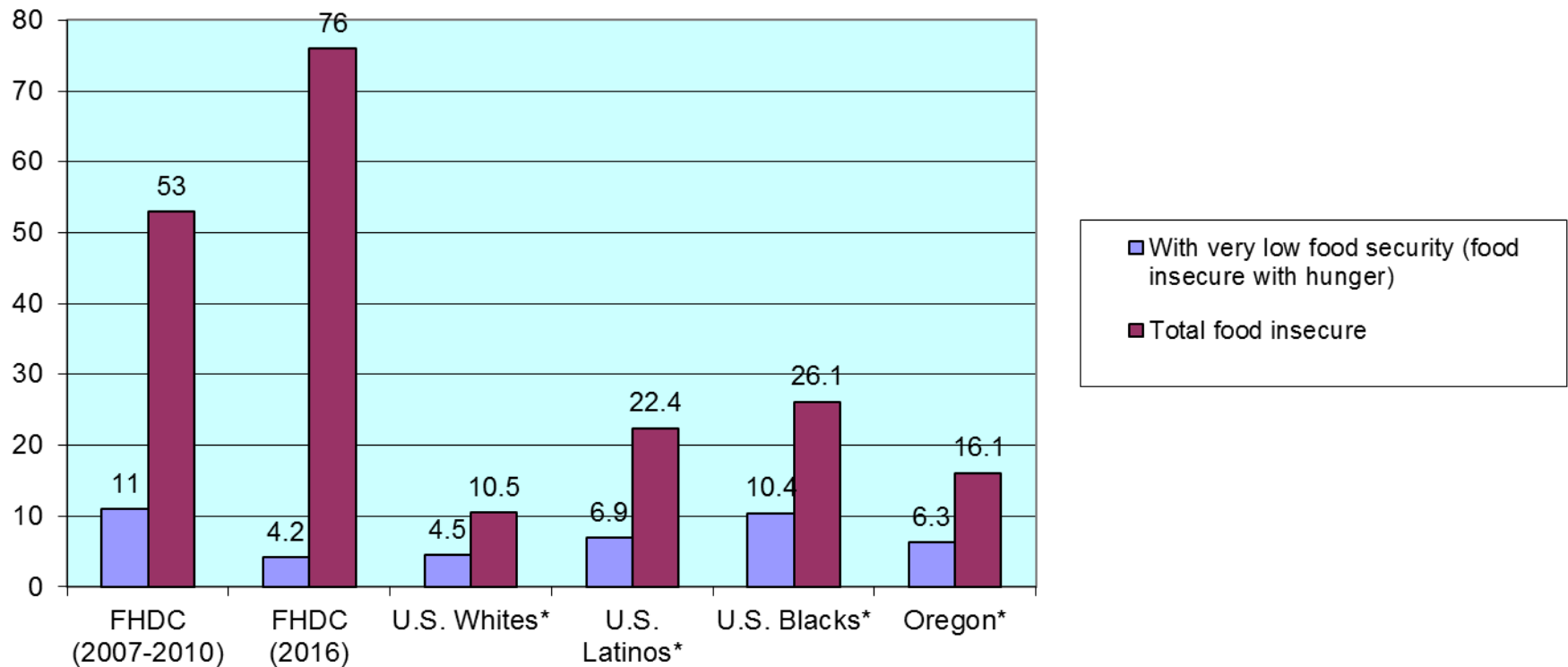
❖ **90% of all respondents do not have enough money for treatment**

❖ **72% of all respondents said issues of legal status negatively affect their health**

(Sources: 2008 FHDC-OSLC Study; 2000 "Suffering in Silence," report of findings from the California Agricultural Workers Health Survey; 2007 BRFSS, CDC.)

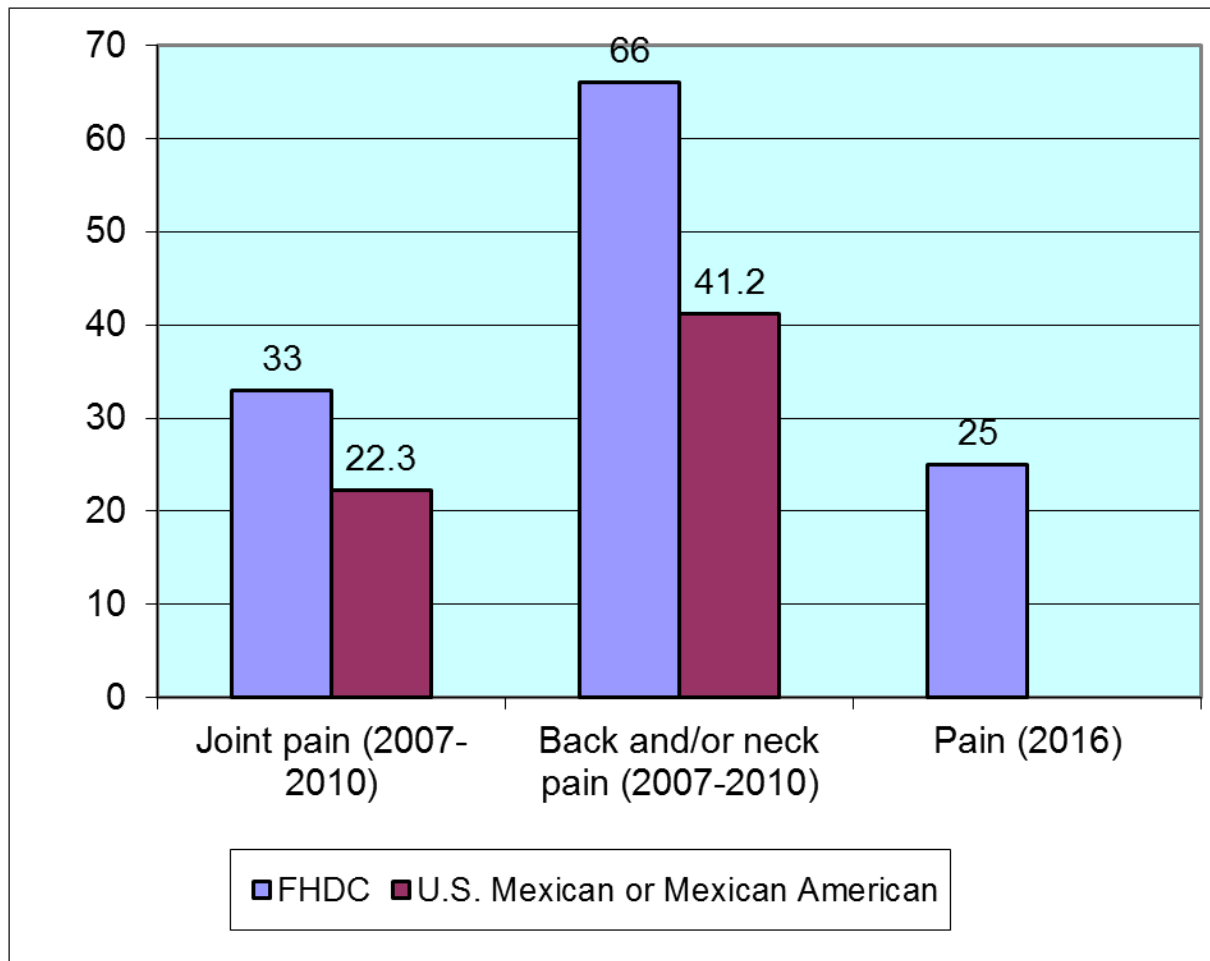
Food availability (all years)

Household Food Security (by percent)



(*Source: USDA, Economic Research Service, Prevalence of household food insecurity and very low food security by State, average, 2012-14. <http://www.ers.usda.gov/media/1896841/err194.pdf>).

Pain (all years)



❖ **Average level of pain (2007-2010): 6.3 (± 2.4) (on scale of 0 to 10). In 2016, average pain reported was 4.9 (± 3.2)**

❖ **41% of all respondents experience pain so great affects ability to work (2007-2010)**

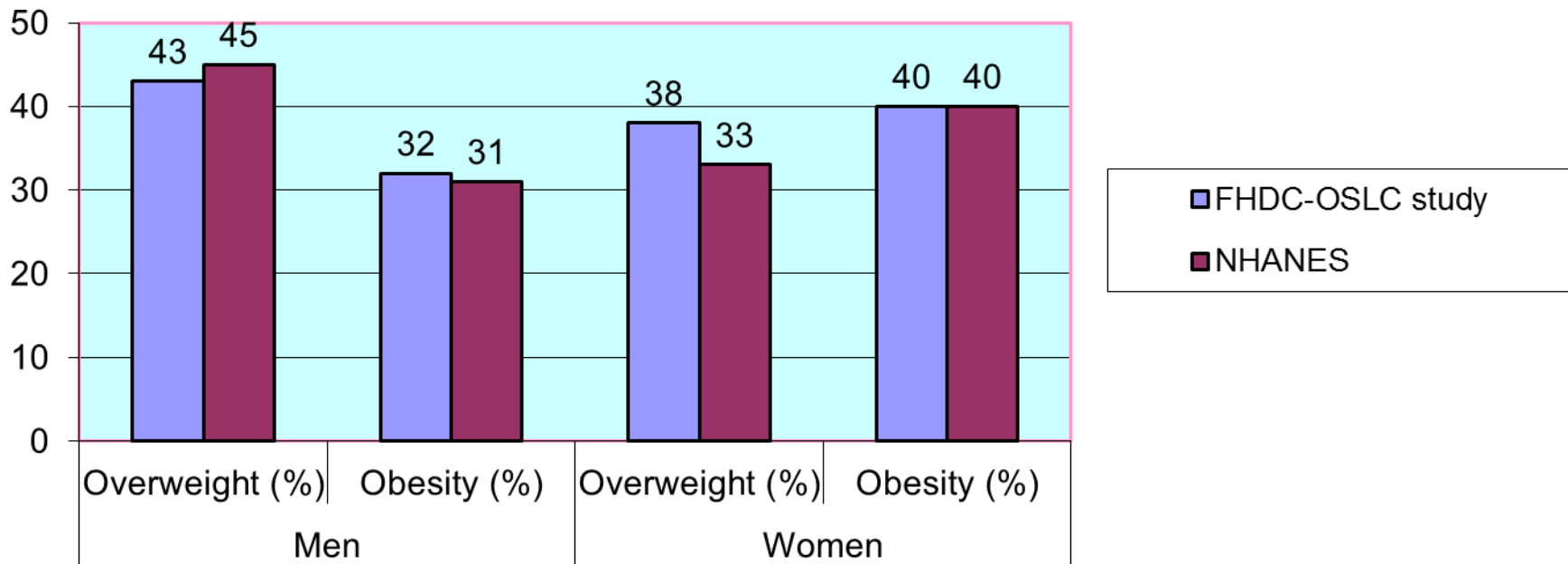
❖ **Higher men's pain level, the lower their household income ($r = -0.61$; $p < 0.05$)(2007-2010)**

(Source: NCHS, CDC, DHHS, 2006; 2010 Table 8 & 10 Series 10, No. 252; http://www.cdc.gov/nchs/data/series/sr_10/sr10_252.pdf).

Results: Overweight & obesity (2007-2010)



**2007-2010 Overweight and Obesity
(BMI based on measured values)**

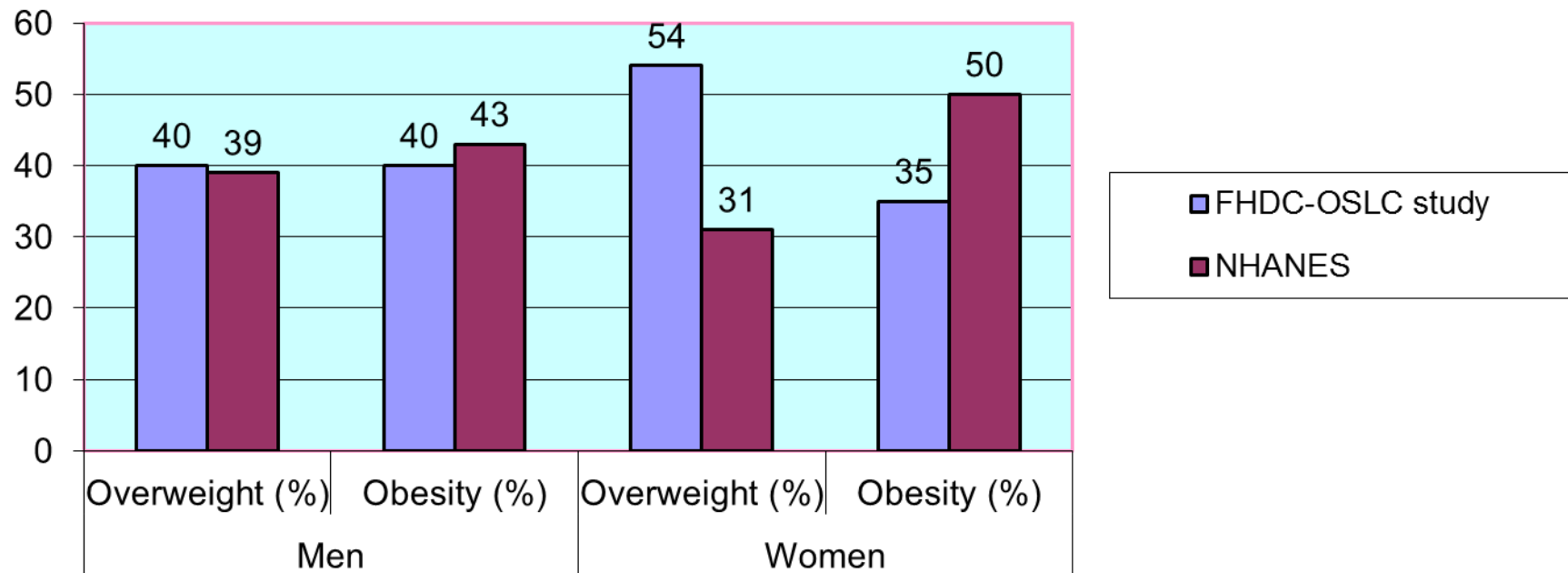


*Note: NHANES data for Mexican origin participants. Source: Table 58. Overweight, obesity, and healthy weight among persons 20 years of age and over, by sex, age, race and Hispanic origin, and poverty level: United States, 2011-2014. National Center for Health Statistics, Centers for Disease Control and Prevention, U.S. Department of Health and Human Services. *Health, United States, 2006, with Chartbook on Trends in the Health of Americans*. Data from the National Health and Nutrition Examination Survey [NHANES].

Results: Overweight & obesity (2016)



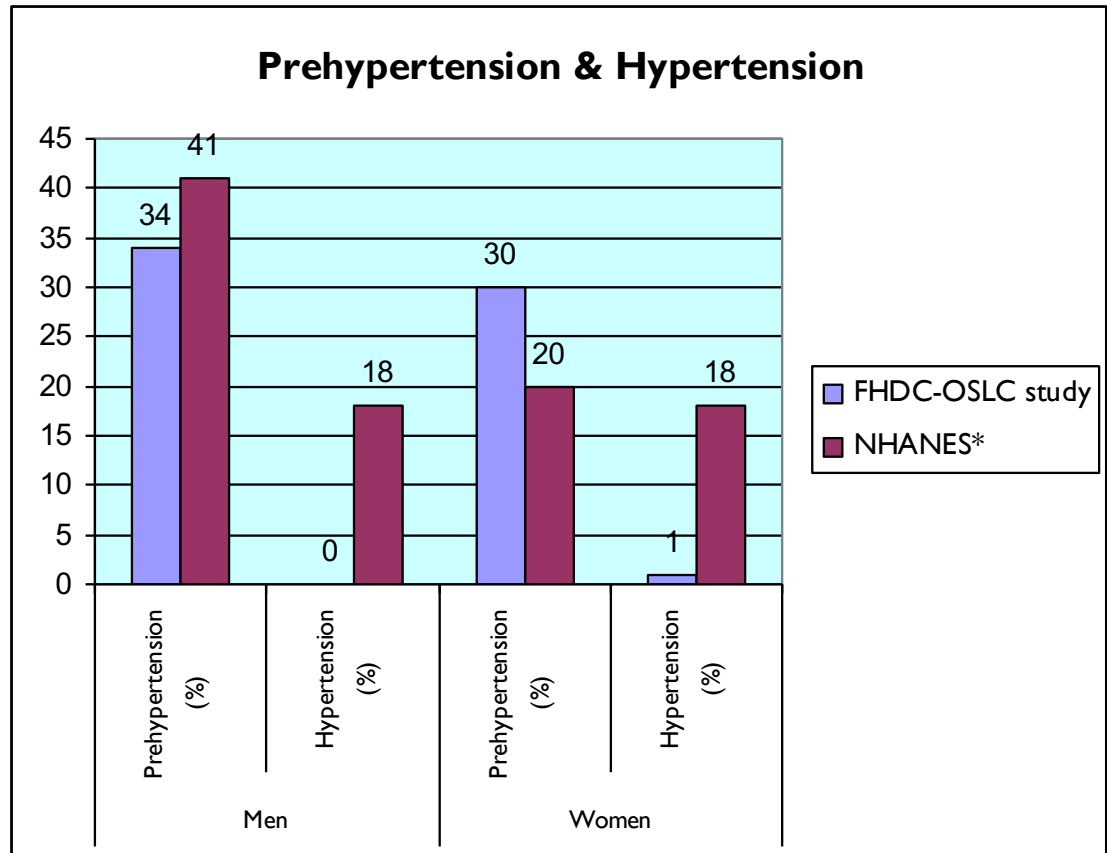
**2016 Overweight and Obesity
(BMI based on measured values)**



*Note: NHANES data for Mexican origin participants. Source: Table 58. Overweight, obesity, and healthy weight among persons 20 years of age and over, by sex, age, race and Hispanic origin, and poverty level: United States, 2011-2014. National Center for Health Statistics, Centers for Disease Control and Prevention, U.S. Department of Health and Human Services. *Health, United States, 2006, with Chartbook on Trends in the Health of Americans*. Data from the National Health and Nutrition Examination Survey [NHANES].

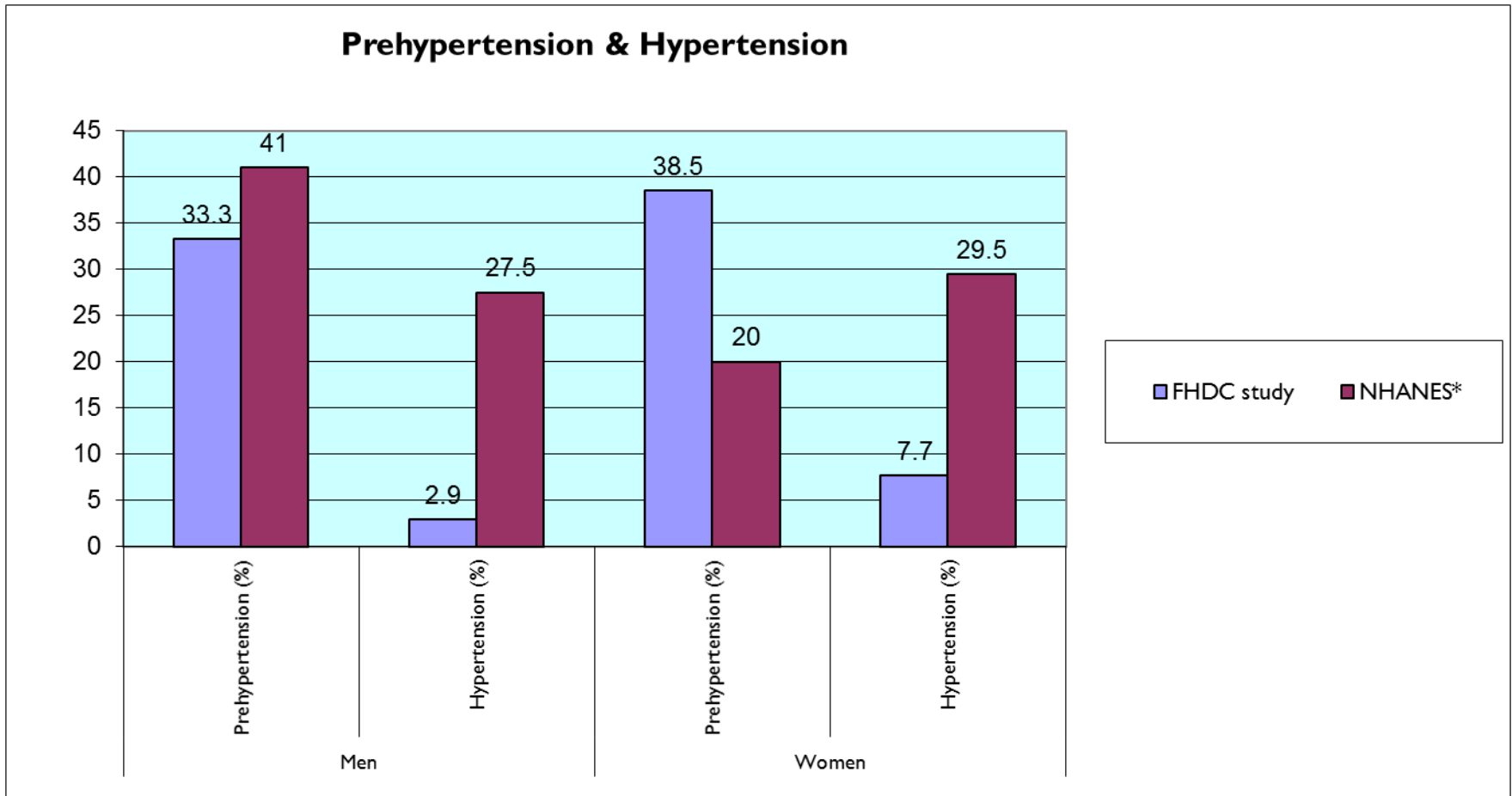
Results: Blood pressure (2007-2010)

- ❖ 31% of participants had above normal blood pressure (2007-2010)
- ❖ 27% of participants had above normal blood pressure (2016)



(*Note: NHANES data for Mexican origin participants. Source: Wang & Wang, *Arch Intern Med.* 2004;164:2126-2134).

Results: Blood pressure (2016)



(*Note: NHANES data for Mexican origin participants, 2011-2014).

Conclusions

- ❖ Rates of hunger among FHDC residents fell substantially between 2007 and 2016 (to a level equal to that of OR in general). However, rates of food insecurity (individuals not having access to food they desire for good health) increased during this same period.
- ❖ The proportion of FHDC residents who reported experiencing pain fell.
- ❖ Rates of prehypertension and hypertension among FHDC women increased between 2007 and 2016.



- ❖ Prevalence of overweight among FHDC women in 2016 is substantially higher than during the 2007-2010 period and higher than the national average. Obesity among women in 2016, however, is lower both than the earlier study and the national average.