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### Physician counseling and patient action for weight loss

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### **Background**

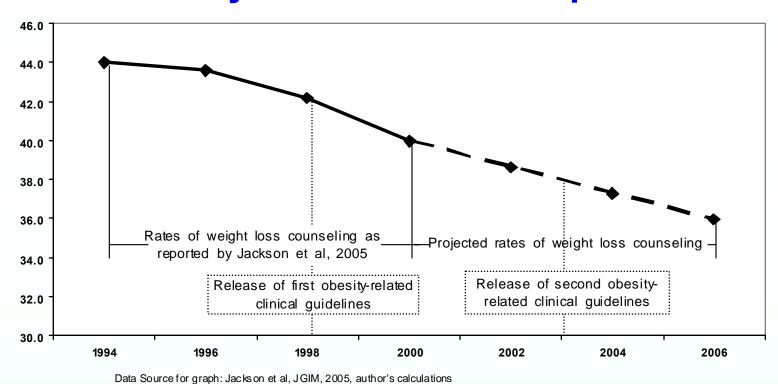
## Clinical Guidelines for screening and treating obesity

- NHLBI, 1998

**– USPSTF, 2003** 

### **Background**

- No direct evaluations known
- Trend analysis shows little impact



### **Study Questions**

- •What are the current weight loss counseling behaviors of health care providers as reported by their obese patients?
- •What has been the impact of the 2003 USPSTF guidelines on health care provider weight loss counseling?

### **Study Design**

- •2005 BRFSS data
- •Limited to obese (BMI] ≥ 30), non-pregnant adults who reported a check-up in the previous year, and answered weight counseling questions (n=11,691)
- Analysis performed using SAS v. 9
- BRFSS sampling weights used

### Finding: Weight Loss Counseling (WLC)

# 43.8 % of obese adults who visited a provider in the last year reported receiving WLC

## Characteristics Associated with Weight Loss Counseling

|                 |                     | % Advised         | Adjusted Odds      |                |                    | % Advised         | Adjusted Odds      |
|-----------------|---------------------|-------------------|--------------------|----------------|--------------------|-------------------|--------------------|
|                 |                     | to Lose<br>Weight | Ratios<br>(95% CI) |                |                    | to Lose<br>Weight | Ratios<br>(95% CI) |
| Total (N=11,691 | )                   | 43.8              | (                  |                |                    |                   | (                  |
| Sex             | Male                | 44.9              | 1.00               | Marital Status | Never married      | 45.6              | 1.00               |
|                 | Female              | 43.2              | 0.97 (0.85-1.11)   |                | Previously married | 42.7              | 0.93 (0.72-1.20)   |
| Age             | 18-29               | 36.5              | 1.00               | 1              | Currently married  | 44.1              | 0.82 (0.65-1.03)   |
|                 | 30-39               | 44.1              | 1.29 (0.93-1.78)   | Current Smoker | No                 | 44.3              | 1.00               |
|                 | 40-49               | 48.4              | 1.67 (1.21-2.31)   |                | Yes                | 41.2              | 0.86 (0.71-1.09)   |
|                 | 50-59               | 48.6              | 1.63 (1.19-2.24)   | Current Insure | No                 | 39.5              | 1.00               |
|                 | 60-69               | 44.3              | 1.31 (0.94-1.82)   |                | Yes                | 44.3              | 1.43 (1.13-1.82)   |
|                 | 70+                 | 32.2              | 0.79 (0.55-1.14)   | Health Status  | Excellent          | 31.8              | 1.00               |
| Race/Ethnicity  | Non-Hispanic-white  | 43.1              | 1.00               |                | Very Good          | 40.2              | 1.17 (0.89-1.56)   |
| ·               | Non-Hispanic-black  | 46.6              | 0.97 (0.81-1.15)   |                | Good               | 45.0              | 1.52 (1.16-2.01)   |
|                 | Hispanic            | 47.1              | 1.08 (0.77-1.53)   |                | Fair               | 49.2              | 1.84 (1.36-2.49)   |
|                 | Other               | 42.6              | 0.65 (0.46-0.90)   |                | Poor               | 47.3              | 1.73 (1.24-2.41)   |
| Education       | < High School       | 39.0              | 1.00               | BMI            | 30-34.9            | 36.8              | 1.00               |
|                 | High School diploma | 41.1              | 1.11 (0.90-1.37)   |                | 35-39.9            | 50.4              | 1.76 (1.50-2.05)   |
|                 | Some college        | 44.6              | 1.39 (1.11-1.74)   |                | 40+                | 66.4              | 3.73 (3.08-4.51)   |
|                 | College +           | 50.1              | 1.79 (1.41-2.26)   | Diabetes       | No                 | 40.3              | 1.00               |
|                 |                     |                   |                    |                | Yes                | 54.9              | 1.54 (1.32-1.80)   |

\*Models adjusted for all covariates in the table. Shaded are as significant at <0.000

### Finding: Weight Loss Action

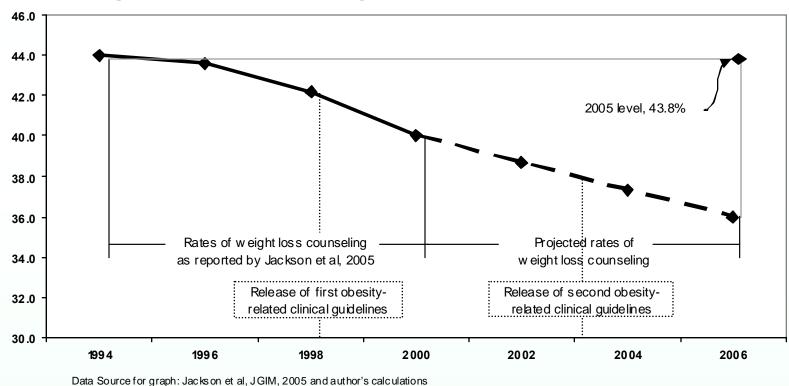
- 90.6% of obese adults who received WLC reported current efforts to lose weight
- 69.8% of obese adults who did not receive WLC reported current efforts to lose weight (p<0.0001)</li>

## Characteristics Associated with Weight Loss Action

|                 |                       | OR (95% CI)       |                | OR (95% CI)                         |
|-----------------|-----------------------|-------------------|----------------|-------------------------------------|
| Total           |                       | 4.18 (3.75-4.65)  | Marital Status | Never married 4.14 (3.03-5.64)      |
| Sex             | Male                  | 4.35 (3.69-5.12)  |                | Previously married 4.16 (3.45-5.02) |
|                 | Female                | 4.17 (3.61-4.81)  |                | Currently married 4.19 (3.62-4.84)  |
| Age             | 18-29                 | 3.08 (1.93-4.91)  | Current Smoker | No 4.18 (3.71-4.71)                 |
|                 | 30-39                 | 3.83 (2.82-5.21)  |                | Yes 4.10 (3.18-5.30)                |
|                 | 40-49                 | 3.92 (3.06-5.01)  | Current Insure | No 5.20 (3.60-7.52)                 |
|                 | 50-59                 | 3.70 (2.99-4.57)  |                | Yes 4.07 (3.64-4.56)                |
|                 | 60-69                 | 4.61 (3.64-5.84)  | Health Status  | Excellent 4.13 (2.72-6.28)          |
|                 | 70+                   | 4.60 (3.50-6.03)  | ļ              | Very Good 3.64 (2.90-4.58           |
| Race/Ethnicity  | Non Hispanic-white    | 3.93 (3.47-4.44)  |                | Good 3.63 (3.05-4.33)               |
|                 | Non-Hispanic-black    | 5.22 (3.98-6.85)  |                | Fair 5.62 (4.44-7.12)               |
|                 | Hispanic              | 4.00 (2.48-6.45)  |                | Poor 5.41 (3.97-7.36)               |
|                 | Other                 | 6.43 (3.39-12.21) | BMI            | 30-34.9 4.31 (3.75-4.95)            |
| Education       | < High School         | 4.43 (3.38-5.81)  |                | 35-39.9 3.22 (2.58-4.01)            |
|                 | High School diploma   | 4.63 (3.86-5.54)  |                | 40+ 3.55 (2.60-4.86)                |
|                 | Some college          | 4.21 (3.35-5.29)  | Diabetes       | No 3.92 (3.46-4.44)                 |
|                 | College +             | 3.23 (2.61-3.99)  |                | Yes 4.89 (3.93-6.10)                |
| Unadjusted ORs. | All p values < 0.0001 |                   |                |                                     |

#### **Discussion**

- Current WLC levels low
- 2003 guidelines may have helped WLC



### Discussion, continued

#### Persons most likely to receive WLC:

- middle-aged persons
- those with higher education
- those with health insurance
- those with higher BMIs
- those with diabetes

Other research has shown some of these characteristics associated with better patient-provider relationships (e.g. having insurance, higher education)

### Discussion, continued

### All persons significantly more likely to engage in WL efforts after receiving WLC

#### Those with highest odds of WL efforts

- Older persons
- Blacks and persons of other racial/ethnic groups
- High school educated
- Not insured
- Those in fair/poor health
- Diabetics

#### Conclusion

WLC promotes WL efforts

Current WLC levels low

 Interventions to improve WLC should be developed

#### **Questions?**

#### For more information, contact:

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