

# Influenza and Pneumococcal Disease and Vaccination in Nursing Homes

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# Influenza and Pneumococcal Disease Burden

- Pneumonia and influenza (P&I): 5<sup>th</sup> most common cause of death in those  $\geq 65$  years
- Influenza: averages 20,000 deaths/year, 90% in those  $\geq 65$  years
- Pneumococcal disease: averages over 10,000 deaths/year, over half in those  $\geq 65$

# Pneumococcal Disease

- Pneumococcal bacteria: most commonly identified cause of pneumonia leading to hospitalization
- Increasing antibiotic resistance: 30% of pneumococci resistant to penicillin, other common antibiotics

# **Nursing Home Outbreaks (with no/little vaccination)**

- Influenza: up to 60% of population in nursing home become ill
- 25% of ill hospitalized and/or die
- Pneumococcal outbreaks occur less often; sporadic cases common

# National Nursing Home Vaccination Measurement

- National Nursing Home Survey
- Administered by National Center for Health Statistics, CDC
- Conducted in 1995, 1997, 1999; planned for 2003
- Facility administrator and resident sections
- 1999 survey sample: 1423 facilities, 8215 residents

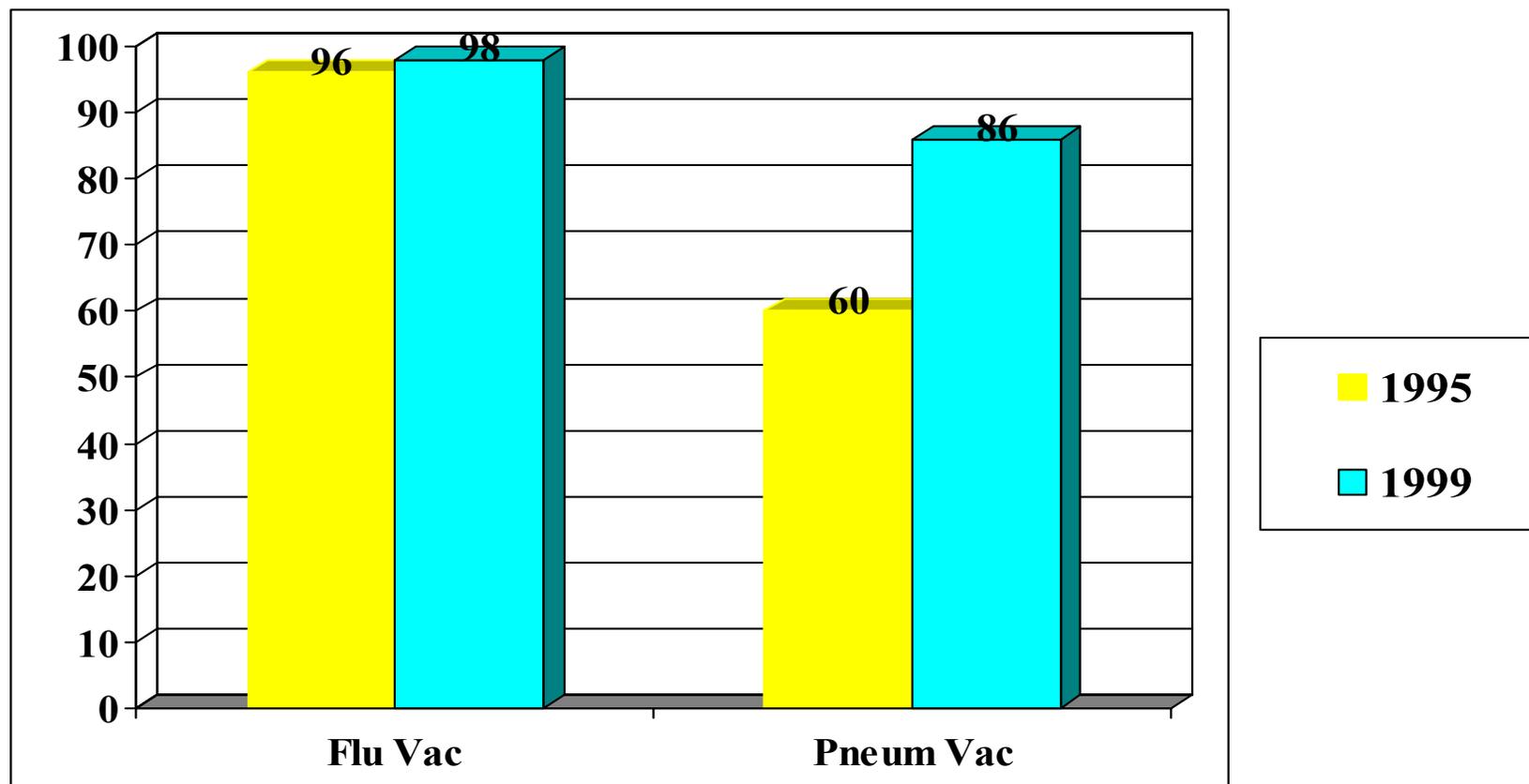
# Facility Questionnaire

- “Does your facility have an organized program to annually offer influenza vaccination (and pneumococcal vaccination) to all residents?”

# Resident Questionnaire

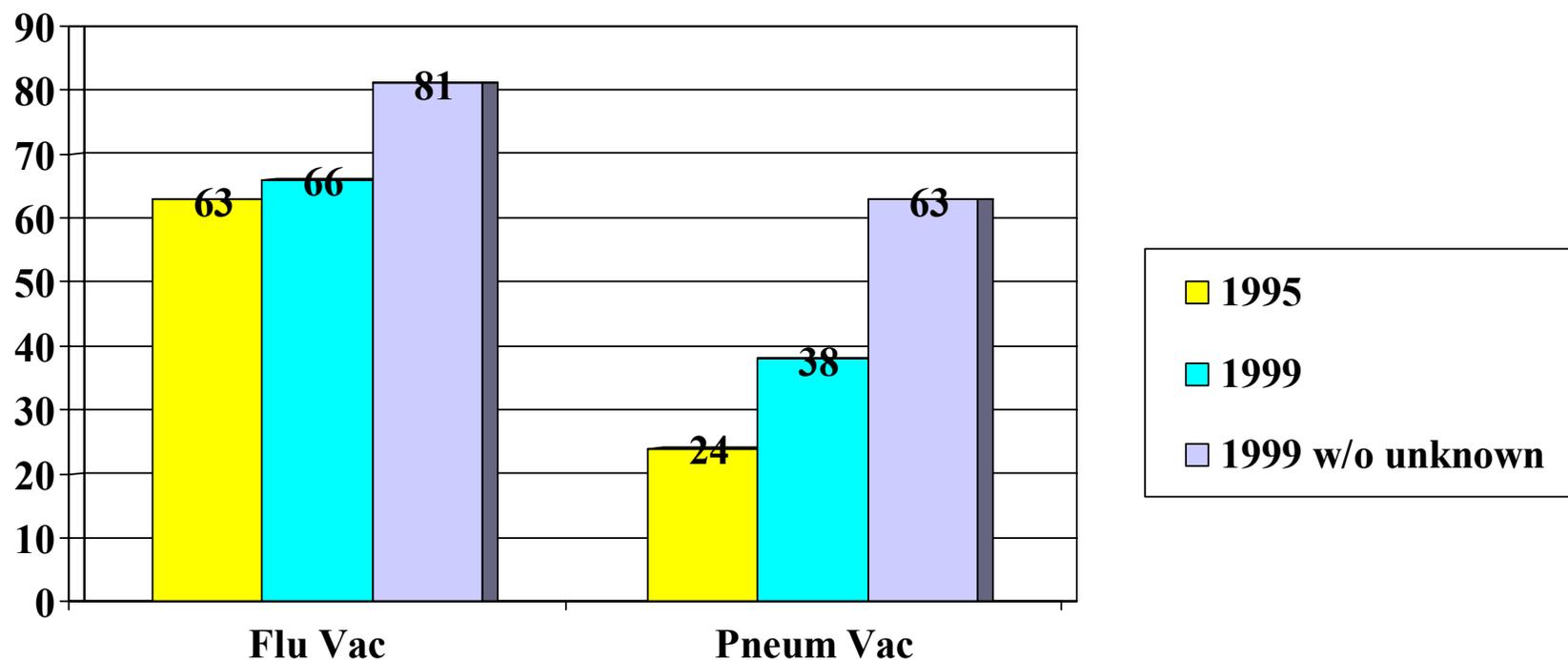
- “During the past 12 months (or ever), has [resident] had a flu shot (or pneumococcal shot) at this facility or any other location?”

# Nursing Homes with Organized Vaccination Programs, 1995 and 1999\*



\*National Nursing Home Survey

# Influenza and Pneumococcal Vaccination, Nursing Homes, United States, 1995, 1999\*



\*National Nursing Home Survey

# Health Care Workers and Influenza Vaccination

- 1998: only 37% of all health care workers reported receiving influenza vaccine
- 1999: National Nursing Home Survey reported only 9% of nursing homes *required* staff to receive influenza vaccine