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# **EPIDEMIOLOGY**

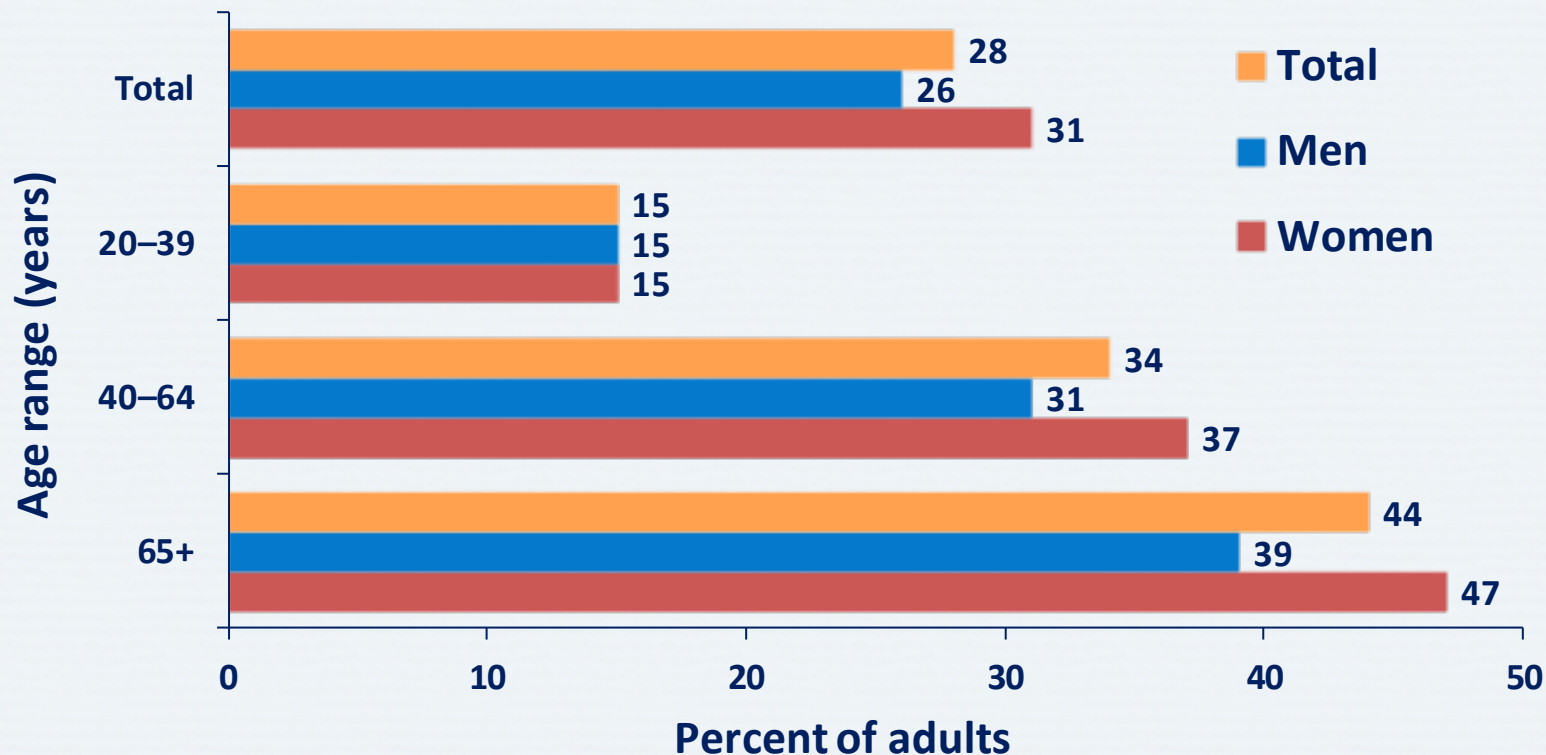
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# General

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# Prevalence of Joint Pain



**Prevalence of joint pain *increases with age* and is *higher in women*.**

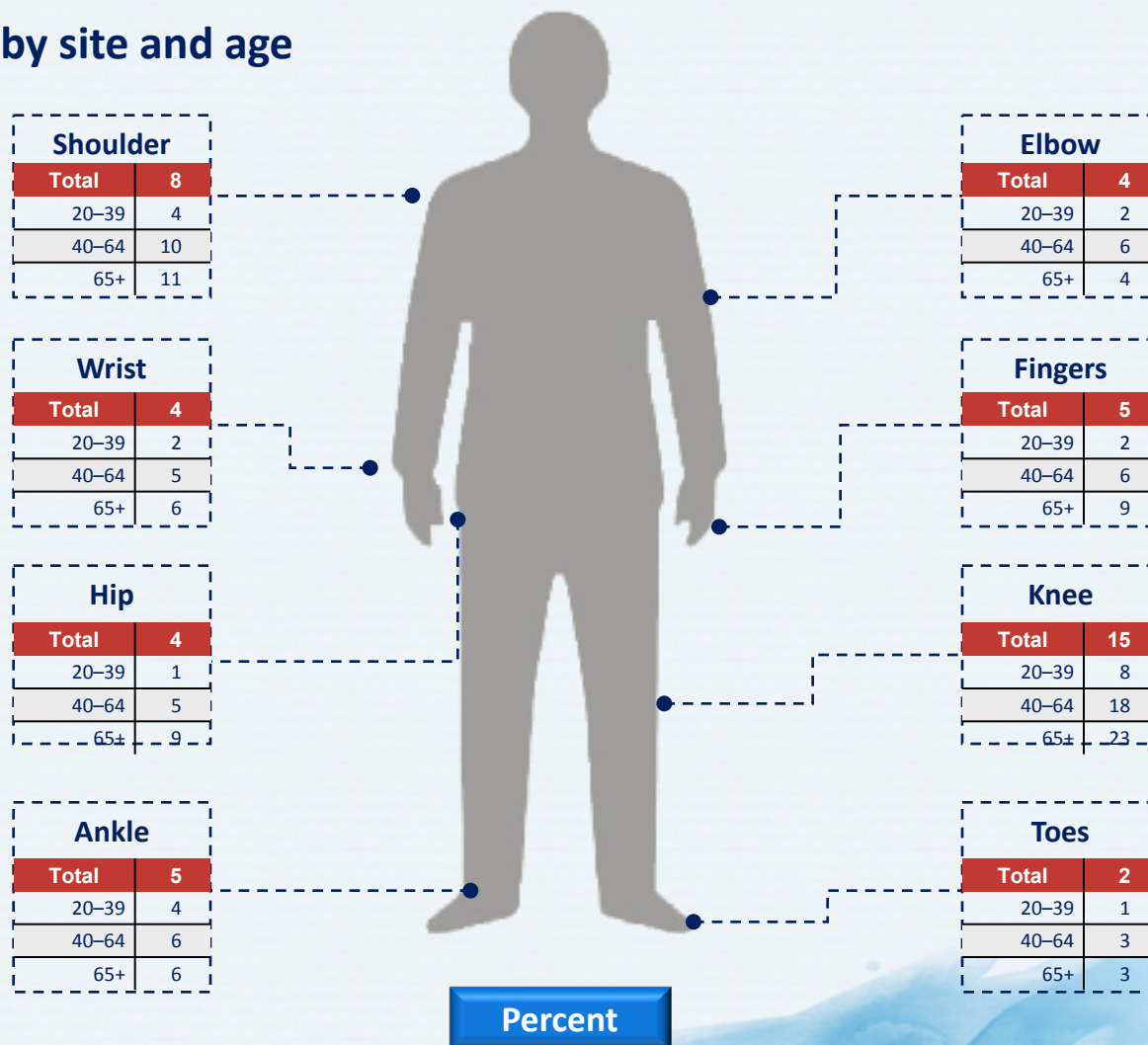
Age-sex adjusted to the 2000 United States (US) standard population.

Source: National Health Interview Survey (NHIS) 2007.

Pfizer Medical Division. *The Burden of Pain Among Adults in the United States*. Pfizer Inc.; New York, NY: 2008.

# Prevalence of Joint Pain in Men

- Pain differs by site and age

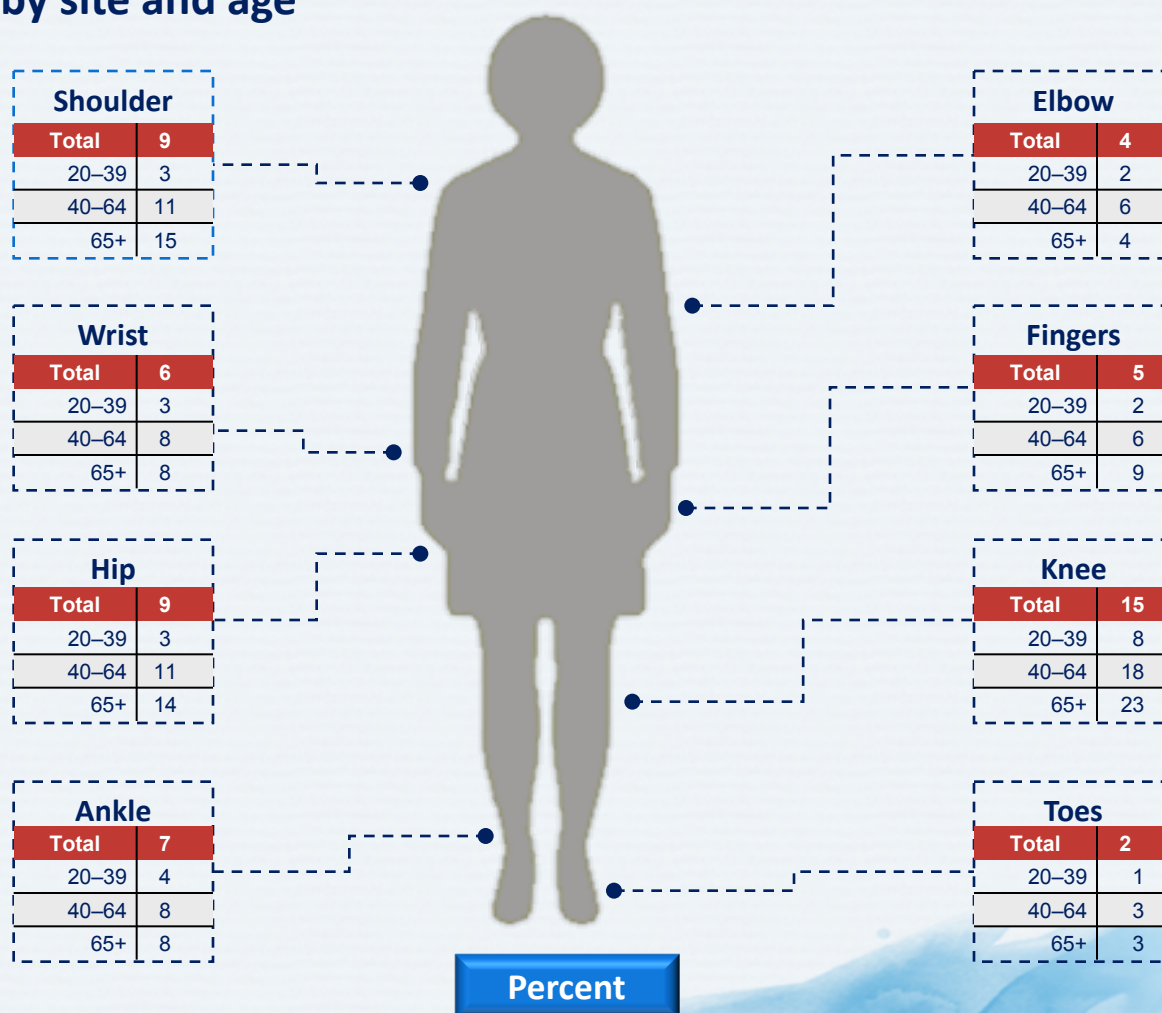


Source: National Health Interview Survey (NHIS) 2007.

Pfizer Medical Division. *The Burden of Pain Among Adults in the United States*. Pfizer Inc.; New York, NY: 2008.

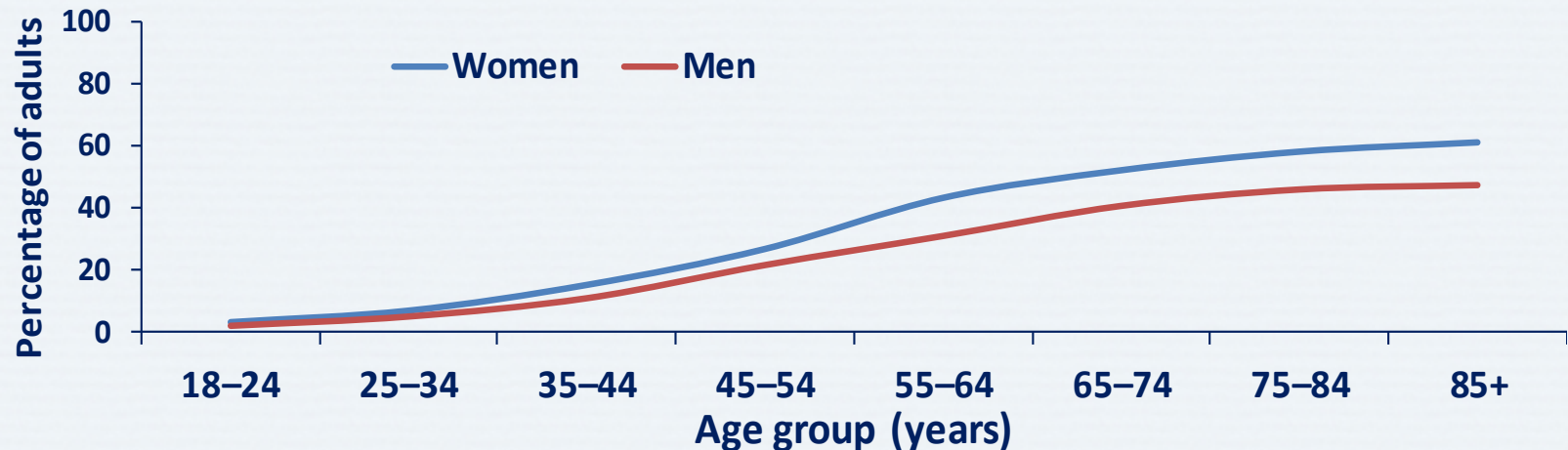
# Prevalence of Joint Pain in Women

- Pain differs by site and age



# Arthritis is Prevalent in American Adults\*

- 49.9 million (22.2%) with self-reported, physician-diagnosed arthritis<sup>1†</sup>
- 21.1 million (9.4%) with arthritis and arthritis-attributable activity limitation<sup>1</sup>
- Affects more women than men in every age group<sup>2</sup>



- Arthritis and rheumatism are leading causes of disability in the US<sup>3</sup>
- By 2030, a projected 67 million in the US will have health care practitioner-diagnosed arthritis<sup>4</sup>

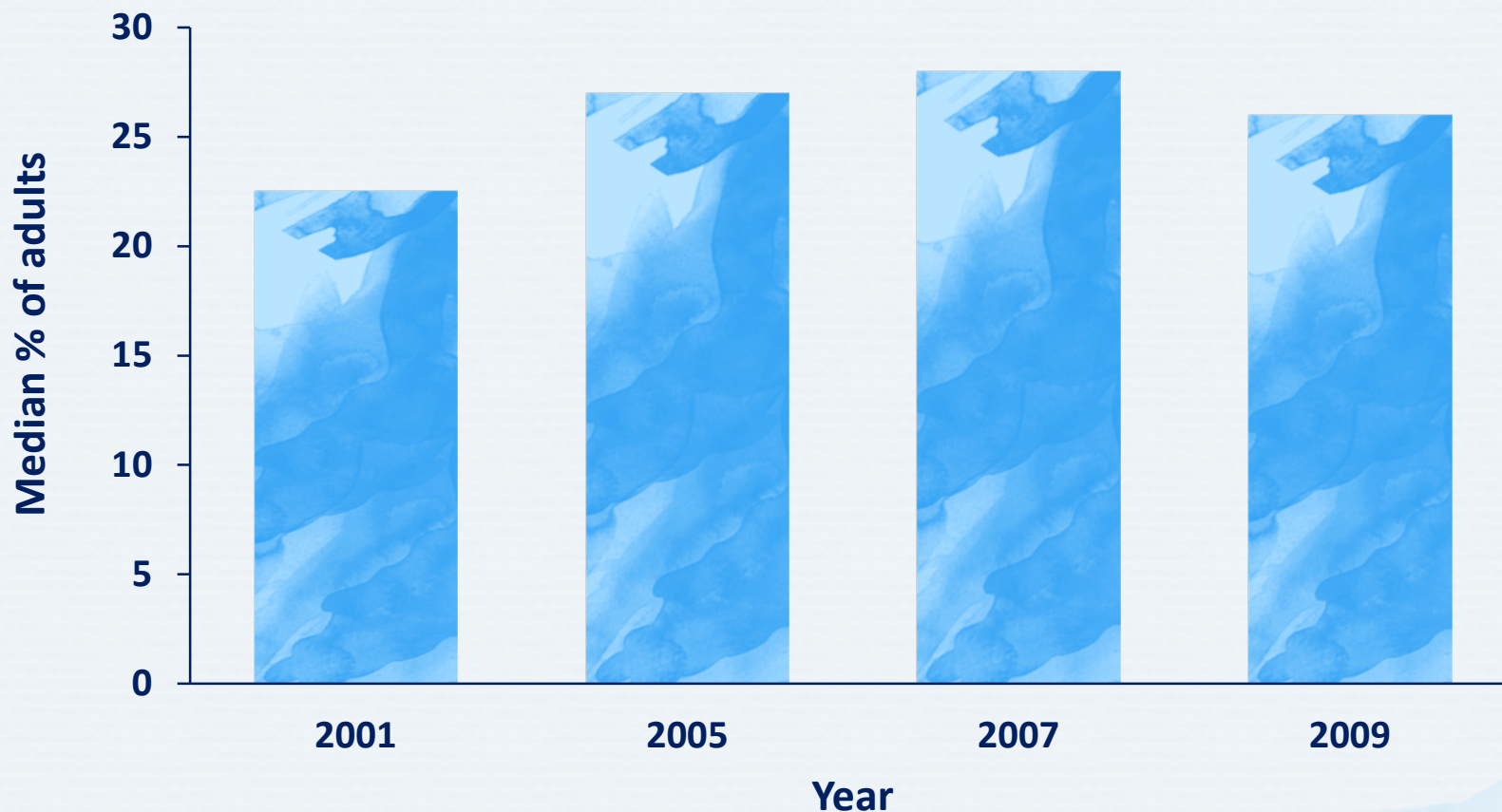
\*Data sources: 2007–2009 data from the National Health Interview Survey (NHIS); †Includes multiple forms of arthritis; US = United States

1. Centers for Disease Control and Prevention. *MMWR Morb Mortal Wkly Rep* 2010; 59(39):1261-65; 2. Centers for Disease Control and Prevention. *NHIS Arthritis Surveillance: Arthritis Prevalence in Women and Men*. Available at: [www.cdc.gov/arthritis/data\\_statistics/national\\_nhis.htm](http://www.cdc.gov/arthritis/data_statistics/national_nhis.htm). Accessed: January 12, 2011;

3. Centers for Disease Control and Prevention. *MMWR Morb Mortal Wkly Rep* 2009; 58(16):421-6; 4. Hootman JM, Helmick CG. *Arthritis Rheum* 2006; 54(1):226-9.

# Arthritis Is Commonly Reported\*

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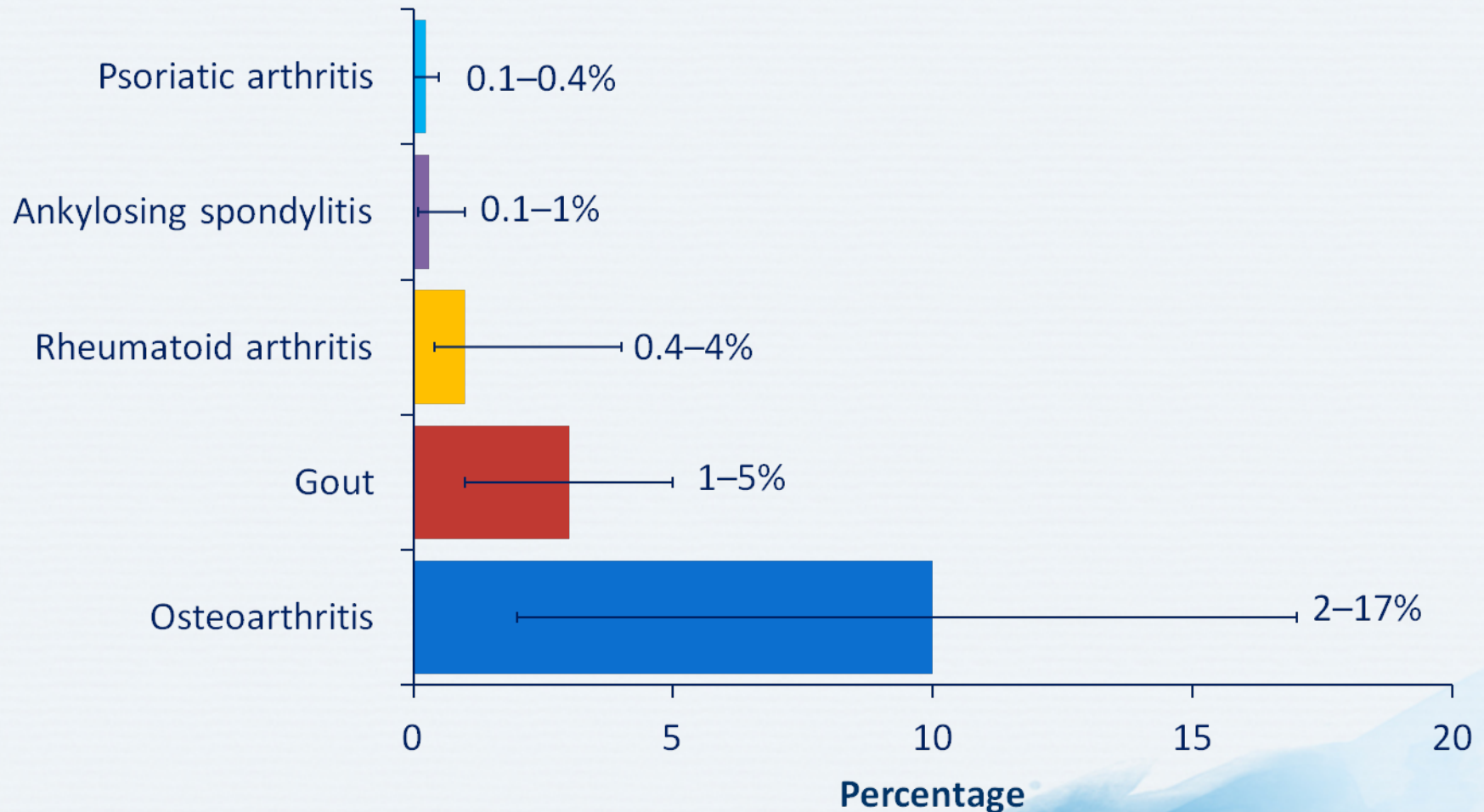


**\*United States prevalence and trends data**  
**Percentage = weighted percentage**

Centers for Disease Control and Prevention. *About the Behavioral Risk Factor Surveillance System (BRFSS)*. Available at: [http://www.cdc.gov/brfss/about/about\\_brfss.htm](http://www.cdc.gov/brfss/about/about_brfss.htm). Accessed: August 2, 2013; Centers for Disease Control and Prevention. *Behavioral Risk Factor Surveillance System Annual Survey Data*. Available at: [http://www.cdc.gov/brfss/annual\\_data/annual\\_data.htm](http://www.cdc.gov/brfss/annual_data/annual_data.htm). Accessed: August 2, 2013.



# Prevalence of Specific Conditions Associated with Chronic Joint Pain





# Ankylosing Spondylitis

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- May affect >400,000 Americans
- Estimated prevalence in Caucasian populations: ~0.1–0.9%
- Most common comorbidities are inflammatory bowel disease and osteoporosis
- Heredity is a major risk factor for ankylosing spondylitis
  - HLA-B27 allele is found in 90% of patients with the disease
    - Appears to contribute 16–50% of the genetic risk

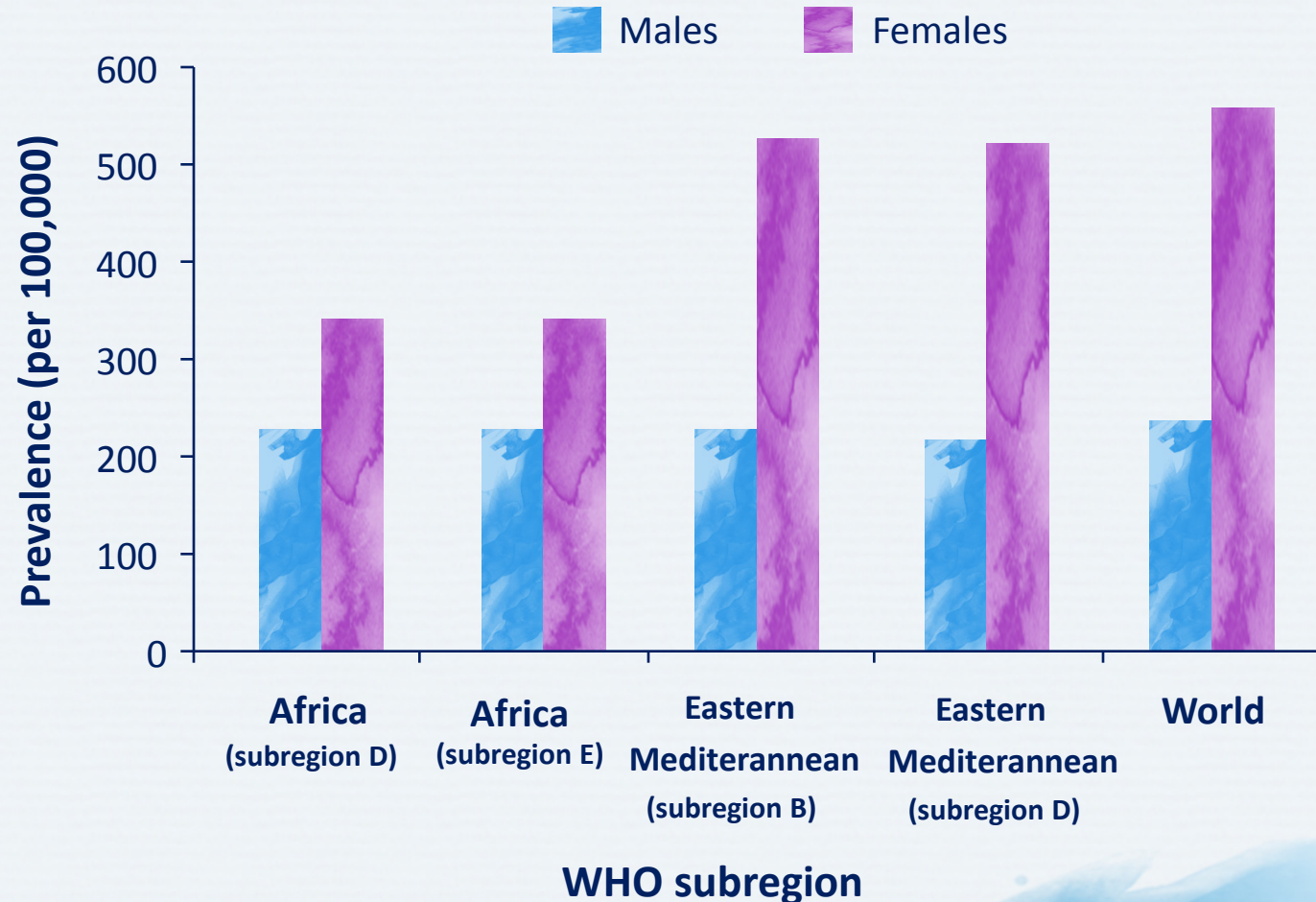
**HLA = human leukocyte antigen**

American College of Rheumatology. *AS Fact Sheet*. Available at:

[http://www.rheumatology.org/Practice/Clinical/Patients/Diseases\\_And\\_Conditions/Spondylarthritis\\_\(Spondylarthropathy\)](http://www.rheumatology.org/Practice/Clinical/Patients/Diseases_And_Conditions/Spondylarthritis_(Spondylarthropathy)). Accessed: September 1, 2013;

Kataria RK *et al.* *Am Fam Physician* 2004; 69(12):2853-60; Sieper J *et al.* *Ann Rheum Dis* 2002; 61(Suppl 3):iii8-18.

# Prevalence of Rheumatoid Arthritis



**WHO = World Health Organization**

Symmons D *et al.* *The Global Burden of Rheumatoid Arthritis in the Year 2000.*

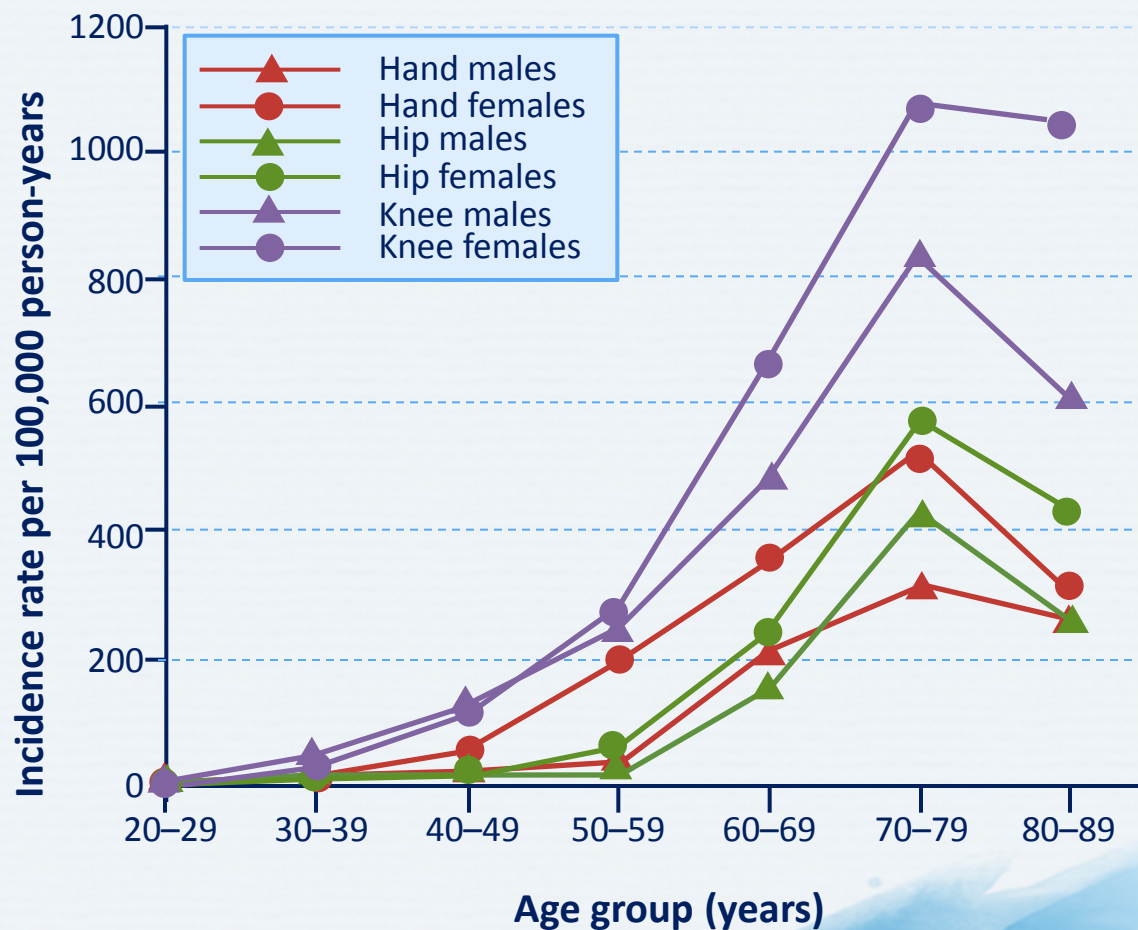
Available at: [http://www.who.int/healthinfo/statistics/bod\\_rheumatoidarthritis.pdf](http://www.who.int/healthinfo/statistics/bod_rheumatoidarthritis.pdf). Accessed: September 1, 2013.

# Osteoarthritis: Most Common Form of Chronic Joint Pain

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- Affects:
  - 13.9% of adults aged 25 years and older
  - 33.6% of those 65 years and older
- As the general population ages, the numbers of people affected are likely to increase dramatically

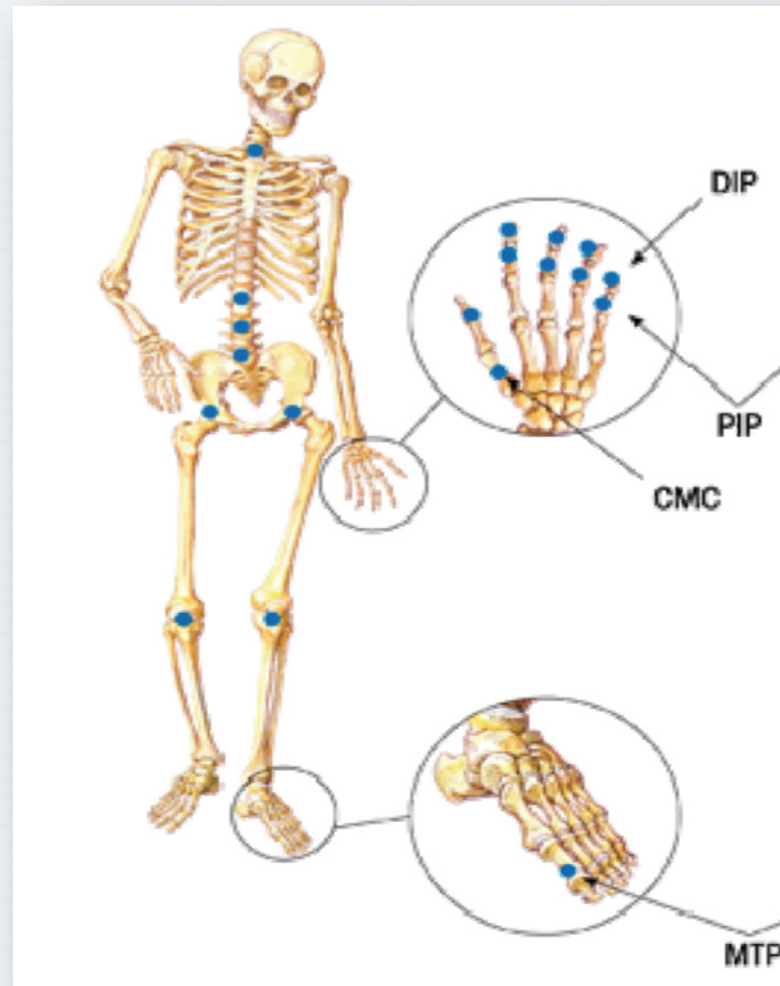
# Incidence of Osteoarthritis of the Hand, Hip and Knee



# Commonly Affected Joints: Prevalence of Symptomatic Osteoarthritis

Hip: 4% of  
those  $\geq 55$  years

Knee: 12% of  
those  $\geq 60$  years



Hand: 8% of  
those  $\geq 60$  years

Foot: 2% of  
those 15–74 years

**CMC = carpometacarpal; DIP = distal interphalangeal; MTP = metatarsophalangeal; PIP = proximal interphalangeal**

Centers for Disease Control. *Osteoarthritis*. Available at: <http://www.cdc.gov/arthritis/basics/osteoarthritis.htm>. Accessed: July 22, 2013.

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# Summary

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# Epidemiology of Chronic Joint Pain: Summary

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- The prevalence of joint pain increases with age and is higher in women
- Osteoarthritis is the most common form of chronic joint pain, affecting one-third of adults aged 65 years and older
  - Prevalence is expected to increase as the general population ages
- Rheumatoid arthritis and ankylosing spondylitis may affect up to 4% and 1% of the population, respectively