



BY THE NUMBERS

Arthritis and Other Rheumatic Conditions (AORC) *Diseases, disorders, and injuries relating to bones, joints, and muscles*

Leading Cause of Disability/Health Care Cost

- **1 in 4** (67 million) adults projected to be affected with doctor-diagnosed arthritis by 2030
- **52.5 million** adults report they have arthritis in 2012***
- **\$116.1 billion:** 2011 U.S. cost directly attributed to treatment of arthritis conditions**

Most Prevalent AORC Conditions

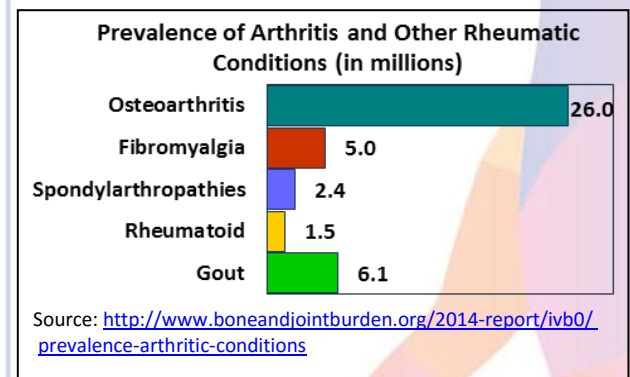
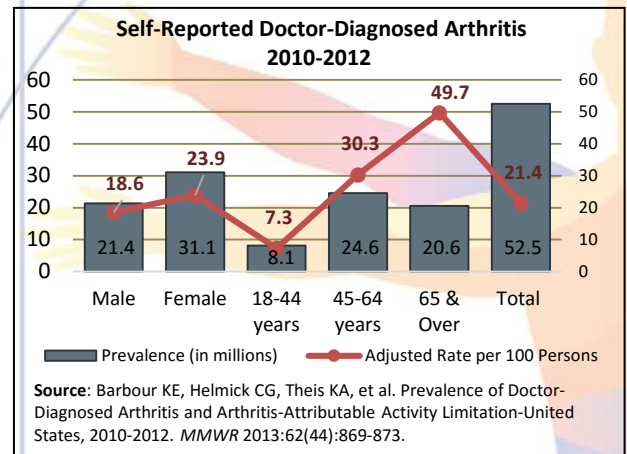
- Osteoarthritis (progressive joint damage)
- Fibromyalgia (widespread pain and tenderness)
- Spondylarthropathies (family of diseases)
- Rheumatoid arthritis (inflammatory arthritis)
- Juvenile idiopathic arthritis (JIA) (6 weeks or more duration, age <=20)
- **26 million** estimated adults live with osteoarthritis, the most common cause of joint pain
- **5 million** adults suffer from fibromyalgia
- **2.4 million** affected by spondylarthropathies, including ulcerative colitis or Chron's disease
- **1.5 million** endure debilitation from rheumatoid arthritis, especially in the hands
- **300,000** children diagnosed with JIA: **40%-45%** will still have arthritis in 10 years

Health Care Impact

- **17% (6.7 million)** of all adult health care hospital discharges with a diagnosis of AORCs, but not necessarily main cause**
- **1 in 4 (24%)** adult hospital discharges with AORC sent to long-term care**
- **10% (100 million)** of all adult ambulatory health care visits associated with an AORC diagnosis*
- **1.9 million** hospital and outpatient visits for JIA***
- **750,000** hip and knee joint replacements annually, primarily due to osteoarthritis damaged joints**

Economic Impact: Lost Work Time and Wages

- **33% (172.1 million)** of reported lost work days for medical conditions due to AORC***
- **22.7 million** adult with arthritis-attributable activity limitations***
- **\$7,550:** annual wages lost per person due to osteoarthritis;
\$13,890 annual wages lost due to rheumatoid arthritis**



THE BY NUMBERS: Musculoskeletal Conditions is sourced from *The Burden of Musculoskeletal Diseases in the United States (BMUS)*, www.boneandjointburden.org.

The United States Bone and Joint Initiative (USBII) is part of the worldwide campaign to advance understanding, prevention, and treatment of musculoskeletal disorders through education and research. To learn more, visit www.usbii.org.



www.boneandjointburden.org

References: For additional information, refer to the tables listed below at www.boneandjointburden.org.

Leading Cause of Disability/Health Care Cost

- [1] <http://www.boneandjointburden.org/2013-report/iv-arthritis/iv> Hootman JM, Helmick CG: Projections of US prevalence of arthritis and associated activity limitations. *Arthritis Rheum* 2006;54(1):226-229.
- [2] T10.6: Total and Incremental Aggregate Direct Costs for Musculoskeletal Diseases in Current and 2011 Dollars, United States 1996-2011
- [3] <http://www.boneandjointburden.org/2014-report/ivb0/prevalence-arthritic-conditions> Barbour KE, Helmick CG, Theis KA, Murphy LB, Hootman JM, Brady, Cheng YJ: Prevalence of doctor-diagnosed arthritis and arthritis-attributable activity limitation—United States, 2010-2012. *MMWR* 2013;62(44):869-873.

Most Prevalent AORC Conditions

- [1] <http://www.boneandjointburden.org/2014-report/ivb0/prevalence-arthritic-conditions> Lawrence RC, Felson DT, Helmick CG, Arnold LM, Choi H, Deyo RA, Gabriel S, Hirsch R, Hochberg MC, Hunder GG, Jordan JM, Katz JN, Maradit Kremers H, Wolfe F; National Arthritis Data Workgroup. Estimates of the prevalence of arthritis and other rheumatic conditions in the United States: Part II. *Arthritis Rheum* 2008;58(1):26-35.
- [2] <http://www.boneandjointburden.org/2014-report/ivb0/prevalence-arthritic-conditions> Lawrence RC, Felson DT, Helmick CG, Arnold LM, Choi H, Deyo RA, Gabriel S, Hirsch R, Hochberg MC, Hunder GG, Jordan JM, Katz JN, Maradit Kremers H, Wolfe F; National Arthritis Data Workgroup. Estimates of the prevalence of arthritis and other rheumatic conditions in the United States: Part II. *Arthritis Rheum* 2008;58(1):26-35.
- [3] <http://www.boneandjointburden.org/2014-report/ivb0/prevalence-arthritic-conditions> Helmick CG, Felson DT, Lawrence RC, Gabriel S, Hirsch R, Kwok CK, Liang MH, Maradit Kremers H, Mayes MD, Merkel PA, Pillemer SR, Reveille JD, Stone JH; National Arthritis Data Workgroup: Estimates of the prevalence of arthritis and other rheumatic conditions in the United States: Part I. *Arthritis Rheum* 2008;58(1):15-25.
- [4] <http://www.boneandjointburden.org/2014-report/ivb0/prevalence-arthritic-conditions> Myasoedova E, Crowson DS, Kremers HM, Therneau TM, Gabriel SE: Is the incidence of rheumatoid arthritis rising?: Results from Olmsted County, Minnesota, 1955–2007. *Arthritis Rheum* 2010;62(6):1576-1582. Note: More recent data indicates this number may be somewhat lower and in the range of 1 million or slightly higher.
- [5] Centers for Disease Control and Prevention (CDC): *Childhood Arthritis*. Available at: <http://www.cdc.gov/arthritis/basics/childhood.htm>. Accessed November 11, 2014. AND Arthritis Foundation: *Juvenile Arthritis*. Available at: <http://www.arthritis.org/arthritis-facts/disease-center/juvenile-arthritis...> November 11, 2014.

Health Care Impact

- [1] T4.2: Health Care Utilization that Included Arthritis and Other Rheumatic Condition (AORC) Diagnoses for Adults Age 18 & Older, United States, 2010
- [2] T4.5: Number of Hospitalizations and Discharge Status Following Hospital Stay that Included Arthritis and Other Rheumatic Condition (AORC) Diagnoses for Adults Age 18 & Older, by Sex and Age, United States, 2011
- [3] T4.2: Source: HCUP Nationwide Inpatient Sample (NIS). Healthcare Cost and Utilization Project (HCUP). 2011. Agency for Healthcare Research and Quality, Rockville, MD. www.hcup-us.ahrq.gov/nisoverview.jsp.
- [4] T4.16: Number of Hospitalizations, Average Length of Hospital Stay (LOS), Hospital Charges 1, and Outpatient Visits for Significant Pediatric Arthritis and Other Rheumatologic Conditions (SPARC) Among Juveniles and Youth Age 20 & Under, by Sex and Age, United States 2008-2012
- [5] T4.9: Number of Inpatient Arthroplasty Procedures by Type, by Sex, United States, 2010/2011

Burden of Arthritis and Other Rheumatic Conditions

- [1] T4.7: Bed and Lost Work Days Associated with Self-Reported Doctor-Diagnosed Arthritis and With Any Medical Conditions for Adults Age 18 and Over, by Sex, United States 2012
- [2] <http://www.boneandjointburden.org/2014-report/ivd3/limitations> Barbour KE, Helmick CG, Theis KA, Murphy LB, Hootman JM, Brady, Cheng YJ: Prevalence of doctor-diagnosed arthritis and arthritis-attributable activity limitation—United States, 2010-2012. *MMWR* 2013;62(44):869-873.
- [3] T10.13: Mean and Aggregate Total and Incremental Direct (for persons 18 and over) and Indirect Costs for Select Musculoskeletal Diseases, 2008-2011