



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** (78.4 million) adults projected to be affected with doctor-diagnosed arthritis by 2040
- **54.4 million:** average number of adults reporting they have arthritis in years 2013 thru 2015; number for 2015 = 55.4 million
- **\$88.7 billion:** 2014 U.S. cost directly attributed to treatment of arthritis conditions

Most Prevalent AORC Conditions

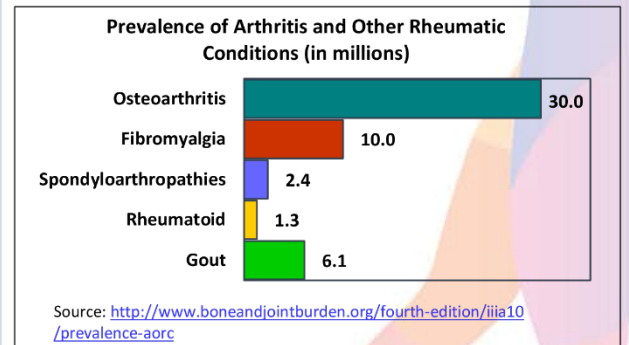
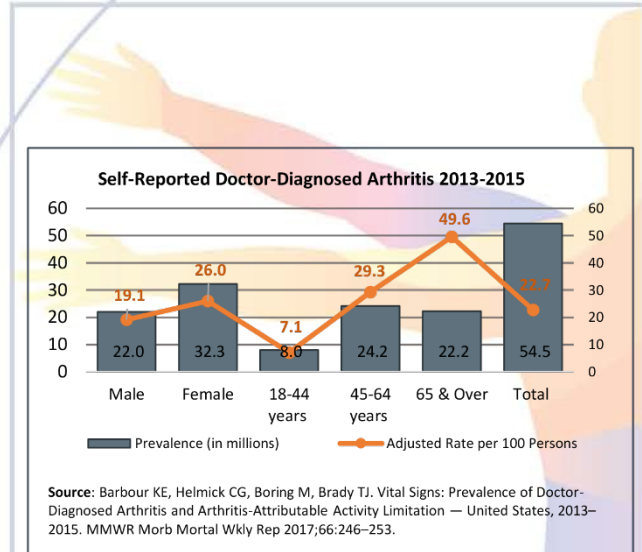
- Osteoarthritis (progressive joint damage)
- Fibromyalgia (widespread pain and tenderness)
- Spondyloarthropathies (family of diseases)
- Rheumatoid arthritis (inflammatory arthritis)
- Juvenile idiopathic arthritis (JIA) (6 weeks or more duration, age <=20)
- **30 million** estimated adults live with osteoarthritis, the most common cause of joint pain
- **10 million** adults suffer from fibromyalgia
- **2.4 million** affected by spondyloarthropathies, including ulcerative colitis or Chron's disease
- **1.3-1.5 million** endure debilitation from rheumatoid arthritis, especially in the hands, depending on source
- **300,000** children diagnosed with JIA: **40%-45%** will still have arthritis in 10 years

Health Care Impact

- **21% (6.4 million)** of all adult health care hospital discharges with a diagnosis of AORCs, but not necessarily main cause^[i]
- **1 in 4 (26%)** adult hospital discharges with AORC sent to long-term care^[i]
- **10% (99.3 million)** of all adult ambulatory health care visits associated with an AORC diagnosis^[i]
- **2.1 million** hospital and outpatient visits for JIA^[i]
- **> 1 million** primary hip and knee joint replacements annually, primarily due to osteoarthritis damaged joints^[i]

Economic Impact: Lost Work Time and Wages

- **34% (189.9 million)** of reported lost work days for medical conditions due to AORC^[ii]
- **8 million** adults with arthritis-attributable activity limitations; **23%** of all with health-related limitations^[iii]
- **\$6,780:** annual wages lost per person due to osteoarthritis; **\$14,540** annual wages lost due to rheumatoid arthritis^[iii]



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 (USBJI) is part of the worldwide campaign to advance understanding, prevention, and treatment of musculoskeletal disorders through education and research. To learn more, visit www.usbji.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] Hootman JM, Helmick CG, Barbour KE, et al. "Updated Projected Prevalence of Self-Reported Doctor-Diagnosed Arthritis and Arthritis-Attributable Activity Limitation Among US Adults, 2015-2040." *Arthritis & Rheumatology* 2016;68(7):1582-1587.
- [2] <http://www.boneandjointburden.org/fourth-edition/iii0/arthritis> Table 3A.2.0: Relationship Between Self-Reported Doctor-Diagnosed Arthritis and Arthritis-Attributable Activity Limitations and Self-Reported Chronic Joint Pain, Adults Age 18 and Older, by Sex, United States 2013-2015.
- [3] www.boneandjointburden.org/fourth-edition/viii0/economic-cost Table 8.6.3: Annual All-cause and Incremental Direct Costs for Arthritis and Joint Pain in Current and 2014 Dollars, United States 2014.

Most Prevalent AORC Conditions

- [1] <http://www.boneandjointburden.org/fourth-edition/iiia10/prevalence-aorc> Cisternas MG, Murphy L, Sacks J, et al., Alternative methods for defining osteoarthritis and the impact on estimating prevalence in a US population-based survey. *Arthritis Care Res* 2016;68(5):574-580.
- [2] <http://www.boneandjointburden.org/fourth-edition/iiia10/prevalence-aorc> National Fibromyalgia Association. <http://www.fmaware.org/about-fibromyalgia/prevalence/> Accessed April 18, 2017.
- [3] <http://www.boneandjointburden.org/fourth-edition/iiia10/prevalence-aorc> Helmick CG, Felson DT, Lawrence RC, et al., for the 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/fourth-edition/iiia10/prevalence-aorc> Helmick CG, Felson DT, Lawrence RC, et al., for the 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.
- [5] <http://www.boneandjointburden.org/fourth-edition/iiia10/prevalence-aorc> Sacks JJ, Helmick CG, Luo Y-H, et al., Prevalence of and annual ambulatory healthcare visits for pediatric arthritis and other rheumatologic conditions in the US in 2001–2004. *Arthritis Rheum (Arthritis Care Res)* 2007;57(8):1439-1445.

Health Care Impact

- [1] <http://www.boneandjointburden.org/fourth-edition/iiia20/healthcare-utilization> Table 3A.3.0.1: Healthcare Utilization that Included Arthritis and Other Rheumatic Condition (AORC) Diagnoses for Adults Age 18 & Older, United States, 2013.
- [2] <http://www.boneandjointburden.org/fourth-edition/iiia20/healthcare-utilization> Table 3A.3.1.3.1: 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, United States, 2013.
- [3] <http://www.boneandjointburden.org/fourth-edition/iiia20/healthcare-utilization> Table 3A.3.2.0.1: Total Ambulatory Visits and Population Rate for Arthritis and Other Rheumatic Condition (AORC) Diagnoses Among Adults Age 18 & Older, by Sex, United States, 2013.
- [4] <http://www.boneandjointburden.org/fourth-edition/iiib60/juvenile-arthritis> Table 3B.1: 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 & Younger, by Sex and Age, United States 2013.
- [5] <http://www.boneandjointburden.org/fourth-edition/iiib70/joint-pain-and-joint-replacement> Table 3A.5.2: Trends in Hip and Knee Joint Replacement Procedures, All Ages, in the United States, 1992-2013.

Burden of Arthritis and Other Rheumatic Conditions

- [1] <http://www.boneandjointburden.org/fourth-edition/iiia30/life-burden-aorc> Table 3A.4.1.1: Bed and Lost Work Days Associated with Self-Reported Doctor-Diagnosed Arthritis and With Any Medical Conditions for Adults Age 18 and Older, by Sex, United States 2013-2015.
- [2] <http://www.boneandjointburden.org/fourth-edition/iiia30/life-burden-aorc> Table 3A.4.2.1: Limitations in Activities of Daily Living (ADL) Due to Self-Reported Doctor-Diagnosed Arthritis and Arthritis-Attributed Activity Limitations Among Adults Age 18 and Older, by Sex, United States 2013-2015.
- [3] <http://www.boneandjointburden.org/fourth-edition/iiia40/economic-burden-aorc> Table 8.13: Average Annual Direct Costs (Persons 18 and over) and Total and Incremental Earnings Losses (Persons Age 18 to 64 Who Ever Worked) for Select Musculoskeletal Diseases, United States 2008-2014.