Patient Insights

Understanding, Serving and Helping Millions of People With Arthritis
Arthritis is preventable and treatable, not simply an unavoidable consequence of aging – yet research into arthritis is chronically underfunded.

In the United States, 54 MILLION ADULTS 1 IN 4 have doctor-diagnosed arthritis. 2/3 are under the age of 65, including 300,000 CHILDREN.

It’s common among athletes and those with physically-demanding jobs. OUR SERVICEMEN AND WOMEN ARE AT THE FOREFRONT OF THIS GROWING CRISIS.

Arthritis damages vital organs and makes other conditions worse, resulting in 100 MILLION DOCTOR VISITS 7 MILLION HOSPITALIZATIONS every year. And it contributes to early death in combination with other diseases.

Besides preventing people from performing everyday tasks, arthritis keeps them from doing the things they love. It can cause depression and feelings of being left out of life.

It costs the U.S. health care system $303.5 BILLION per year. Conquering arthritis is the first step in alleviating this financial burden on our health care system.

By reaching and listening to millions of people with arthritis, the Arthritis Foundation is capturing what matters most to patients – working together to develop resources, influence research and change systems to improve lives.

ARTHРИTIS PREVALENCE
INFORMATION & CONNECTIONS HAVE A POSITIVE IMPACT.

People who engage with the Arthritis Foundation are taking more positive actions compared to those with arthritis who are not engaged.

52% more likely to SEEK TREATMENT from a doctor

23% more likely to agree that there are things a person with arthritis can do to MAKE LIFE BETTER

47% more likely to start a WEIGHT LOSS program

39% more likely to EAT HEALTHIER

14% more confident in their ability to PURSUE GOALS

SINCE 1948

$500 + MILLION INVESTED IN ARTHRITIS RESEARCH.

Arthritis Foundation-funded scientists were key to the discovery of biologics and other major interventions, changing the future for all forms of arthritis.

POSITIVE IMPACT

The Arthritis Foundation is the Champion of Yes. Leading the fight for the arthritis community, the Arthritis Foundation helps conquer everyday battles through life-changing information and resources, access to optimal care, advancements in science and community connections. Our goal is to chart a winning course, guiding families in developing personalized plans for living a full life – and making each day another stride towards a cure.

The Live Yes! Arthritis Network, created by the Arthritis Foundation, makes CONNECTIONS BOTH IN PERSON AND ONLINE to empower people to live their best life. People with arthritis find strength in each other, manage stress and take control of their health care.

We guide the arthritis community to take action through ADVOCACY AT THE STATE AND FEDERAL LEVELS – surpassing 100 state legislative victories since 2014 and growing the Congressional Arthritis Caucus to 146 members in 2018.
Since the 1940s, the number of Americans with arthritis has risen significantly.

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<tr>
<td>Value</td>
<td>7.5</td>
<td>11</td>
<td>16</td>
<td>31</td>
<td>37</td>
<td>43</td>
<td>46</td>
<td>54</td>
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1.3 MILLION PEOPLE engage with digital resources and local events.

22 MILLION PEOPLE per year seek information on arthritis.org
**TOP 6 AREAS THAT MATTER MOST TO PATIENTS**

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<tr>
<th>1</th>
<th>PHYSICAL PAIN IS A BIG DEAL</th>
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<tr>
<td>50% reported that PAIN IMPACTS THEM AT LEAST <strong>10 DAYS</strong> PER MONTH*</td>
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<tr>
<th>2</th>
<th>ARTHRITIS PAIN IS MORE THAN JUST PHYSICAL</th>
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<td>48% FEEL DOWN, DEPRESSED OR HOPELESS*</td>
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<th>3</th>
<th>NUTRITION MATTERS</th>
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<td>84% believe a HEALTHY DIET IS IMPORTANT FOR MANAGING ARTHRITIS*</td>
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<th>4</th>
<th>MEDICAL OUTCOMES ARE IMPORTANT*</th>
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<td>Top 5 outcomes of interest to patients:</td>
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<td>1. Reduce pain</td>
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<td>2. Increase overall health</td>
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<td>3. Slow disease progression</td>
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<td>4. Do more of what I want to do</td>
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<td>5. Prevent joint damage</td>
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<th>5</th>
<th>DAILY LIVING CAN BE DIFFICULT*</th>
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<td>What people find difficult</td>
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<td>• Get in and out of a vehicle: <strong>68%</strong></td>
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<td>• Pick something up off floor: <strong>54%</strong></td>
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<tr>
<td>• Climb in and out of bed: <strong>47%</strong></td>
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<td>• Dress oneself: <strong>42%</strong></td>
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<th>6</th>
<th>ACCESS IS KEY*</th>
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<td>Top 6 insurance issues/challenges:</td>
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<td>1. Prior authorization</td>
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<td>2. High deductibles</td>
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<td>3. High coinsurance for medications</td>
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<td>4. High premiums</td>
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<td>5. Changes to drug formulary</td>
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<td>6. Step therapy (fail first)</td>
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<th>7</th>
<th>ARTHRITIS PAIN IS MORE THAN JUST PHYSICAL</th>
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<td>57% FEEL LITTLE INTEREST OR PLEASE IN DOING THINGS*</td>
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<th>8</th>
<th>NUTRITION MATTERS</th>
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<td>70% of juvenile arthritis parents FEEL NOBODY UNDERSTANDS HOW ARTHRITIS AFFECTS THEIR CHILD*</td>
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The Arthritis Foundation conducts over 50 surveys per year (generating between 500 – 3,000 responses per survey) to ensure our research and resources remain relevant to patient needs.

*Based on Arthritis Foundation original research, backed by Nielsen/Harris Poll, patients have shared what matters most to them.
The Arthritis Foundation’s Live Yes! Arthritis Network is transforming how people with arthritis live life with less pain and are more active in their care. People with arthritis will experience:

- **Improved Physical Health** – Participants will function better and be able to carry out more daily activities with less pain interference.
- **Improved Emotional & Social Health** – Participants will better manage stress and depression to improve their enjoyment of life. They will connect with others who share their same journey to boost a sense of belonging.
- **Better Experience of Care** – Participants will gain tools to proactively take control of their care by better communication with their health care team.

The survey measured three primary domains:

- **Physical Health**
- **Emotional Health**
- **Experience of Care**

In addition to getting a national/average baseline of results across these domains, the Foundation was able to look at results market by market. Based on findings, local markets will be able to offer targeted programming to move the needle in their area.

Some key findings include:

**TOP 4 ABOVE THE NATIONAL AVERAGE IN OUR PRIMARY DOMAINS**

- **Physical Health**
  - Massachusetts
  - Pittsburgh
  - Colorado
  - DC Metro
- **Emotional Health**
  - DC Metro
  - Greater Chicago
  - Pittsburgh
  - Colorado
- **Experience of Care**
  - Alabama & Mississippi
  - Northern New England
  - Los Angeles
  - Kansas

**DISEASE TYPES**

- Osteoarthritis | 30%
- Rheumatoid Arthritis | 22%
- Fibromyalgia | 9%
- Osteoporosis | 7%
- Psoriatic Arthritis | 4%
- Sjogren’s Syndrome | 4%
- Ankylosing Spondylitis | 3%
- Juvenile Arthritis persistent to adulthood | 2%
- Gout | 2%
- Lupus | 2%
- Unknown | 2%
- Other | 13%

**AGE**

- 75+ | 13%
- 65-74 | 29%
- 55-64 | 28%
- 45-54 | 16%
- 35-44 | 7%
- 34 or younger | 7%
The Arthritis Foundation is not only leveraging patient insights, stories and self-reported outcomes to influence internal strategies, but to influence external stakeholders and systems as well. A few highlights:

**OA Patient-Focused Drug (PFDD) Meeting**
The Arthritis Foundation hosted an OA Patient-Focused Drug Development (PFDD) meeting in the Washington, D.C., area on March 8, 2017. This meeting provided the U.S. Food and Drug Administration (FDA), drug developers, health care providers, academic researchers and other stakeholders an opportunity to hear directly from patients, patient advocates and caretakers about the signs and symptoms that matter most to them. OA patients shared just how much this disease impacts their lives, as well as the gaps in treatment and what they are looking for in ideal, new treatment options.

Results: FDA released new OA guidance for industry citing the shortcomings of current study endpoints to address how patients “function and feel.”

**JIA Patient-Focused Drug (PFDD) Meeting**
Hundreds of patients and their families, FDA staff, industry leaders and researchers convened in Washington, D.C., to participate in the externally-led JIA Patient-Focused Drug Development (PFDD) meeting on August 2, 2018. This meeting provided an opportunity for patients, patient advocates and caretakers to talk about the symptoms and issues that matter most to them. JIA parents and their families shared information about the impact of JIA on daily life, the symptoms that are most challenging, experiences with currently available treatments and the need for new and different treatments.

Results: A written report will be published in early 2019, setting the stage for deeper community engagement between regulators, patients, researchers and the Arthritis Foundation.

**Influencing the Institute for Clinical and Economic Review (ICER)**
On March 24, 2017, after many months of review, the Institute for Clinical and Economic Review (ICER) held a public meeting in Boston, MA, to discuss evidence findings on treatments for rheumatoid arthritis (RA). ICER is a nonprofit organization that reviews the effectiveness of medications and their costs.

During the meeting, the Foundation played a vital role, presenting patient-centered research, asserting the patient voice and displaying strong leadership on behalf of the arthritis community. We presented data from our two patient surveys conducted over the previous months (3,745 respondents total), helping the panel better understand innovative biologic therapies, patient treatment perspectives and utilization management statistics. Panelists were shocked to learn that almost half of the surveys’ respondents had to go through step therapy and, of those, 22 percent had to repeat the steps when their insurance changed, even if they were stable on their drug.

Members of our advocacy program – Anna Legassie, Renay Houlem and Jen Melanson – also played a critical role at the ICER meeting, powerfully representing the patient perspective. Every voting member of the ICER panel noted that our Advocates’ testimony significantly impacted their knowledge and understanding of the issues.

Results: ICER deemed it did not have enough evidence to determine that a given biologic was more cost-effective than another.
References
1. Arthritis Foundation Consumer Needs Study, conducted by Nielsen/Harris, July 2016 (AF members n=722 & Non-AF members n=615)
2. Arthritis Foundation Consumer Usage Study, conducted by Nielsen/Harris, March 2016 (Diagnosed with Arthritis: n=706; General Public: n=714)
3. Arthritis Foundation Advocacy Priorities Report, September 2018 (n=1,744)
4. Arthritis Foundation Nutrition Survey, May 2018 (n=855)
5. Arthritis Foundation OA Patient-Focused Drug Development Survey & Focus Group Report, March 2017 (n=345)
6. Arthritis Foundation Patient Reported Outcome Survey, October 2018 (n=5,040)
7. Arthritis Foundation survey of rheumatoid arthritis patient treatment experiences, for Discussion with ICER, November 2016 (n=3,186)
8. Arthritis Foundation survey to determine impact of innovative therapies on rheumatoid arthritis patients, for Discussion with ICER, December 2016 (Biologic naive for 5 years or more n=222 & Biologic experienced within 5 years n=337)

To learn more about the Live Yes! Arthritis Network, go to: arthritis.org/LiveYes