Thank you for creating your osteoarthritis landscape!

We hope you found it informative and engaging. Explore this document to discover the data that maps your personalized landscape.

Large real-world study

Notable increase

in patient NSAID prescribing and dispensing following an OA diagnosis^{1*}

Home-use studies analysis

30-48% reductions

in OA hip and knee pain with acetaminophen, plus improved physical function and stiffness^{2†}

Large real-world study

More than 50%

of patients with OA have ≥1 comorbidity that may increase the risk of side effects associated with NSAID use^{1*}

Multimodal approaches

combining pharmacologic methods with lifestyle changes can effectively manage OA symptoms^{3,4}

Suitable to consider for certain common comorbidities

TYLENOL® is an appropriate analgesic choice for patients with GI, renal, and CV risks

*A retrospective cohort of 17,842,628 OA patients, constructed from three large US administrative claims databases (mean age: 61.4 years). †Analysis of 5 randomized, double-blind, active-controlled, multiple-dose, parallel, multicenter, home-use studies of acetaminophen in individuals with radiographically confirmed hip or knee OA, with dosing ≥4 weeks, conducted between 1993 and 2004.

Notable increase in patient NSAID prescribing and dispensing following an OA diagnosis¹



The aim of this study was to estimate the prevalence of prescribing and dispensing of NSAIDs pre- and post-OA diagnosis in patients with and without a coexisting medical condition of interest (CMCOI).

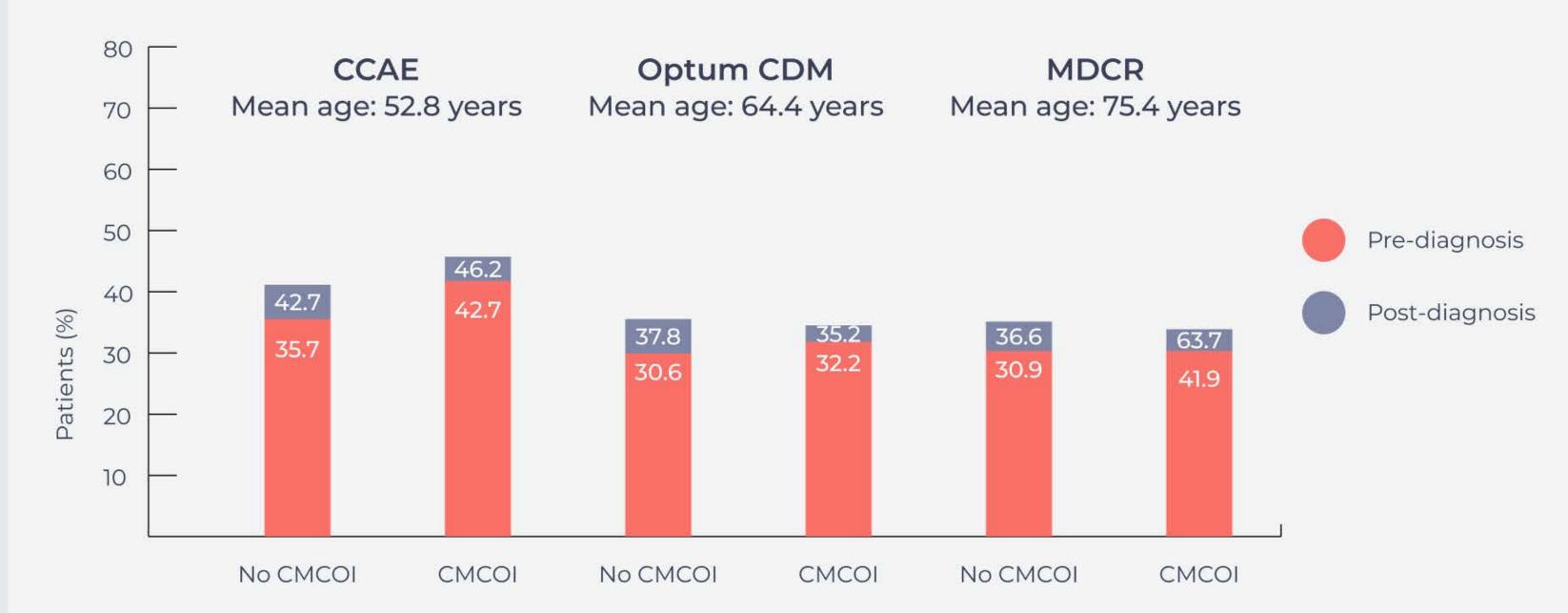


A retrospective cohort of 17,842,628 OA patients, constructed from three large US administrative claims databases (mean age: 61.4 years).

The selected CMCOIs were CV risk,*
GI bleeding risk, asthma, and renal impairment.

Databases leveraged were IBM MarketScan Medicare Supplemental Database (MDCR), IBM MarketScan Commercial Database (CCAE), and Optum's de-identified Clinformatics Data Mart Database (Optum CDM).

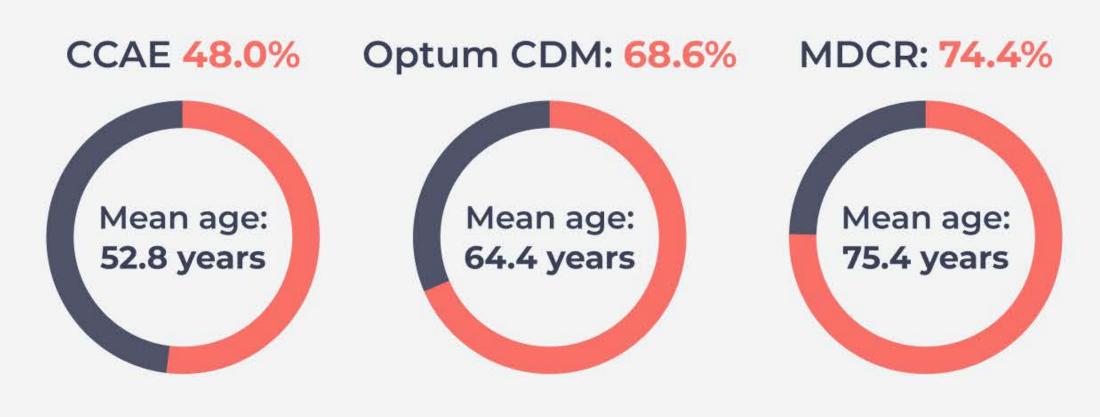
Proportion of patients prescribed and dispensed NSAIDs increased following diagnosis of OA



Similar trends of prescribing and dispensing NSAIDs were observed among those with and without comorbidities, highlighting the need for alternative pharmacological options for those with comorbid conditions.

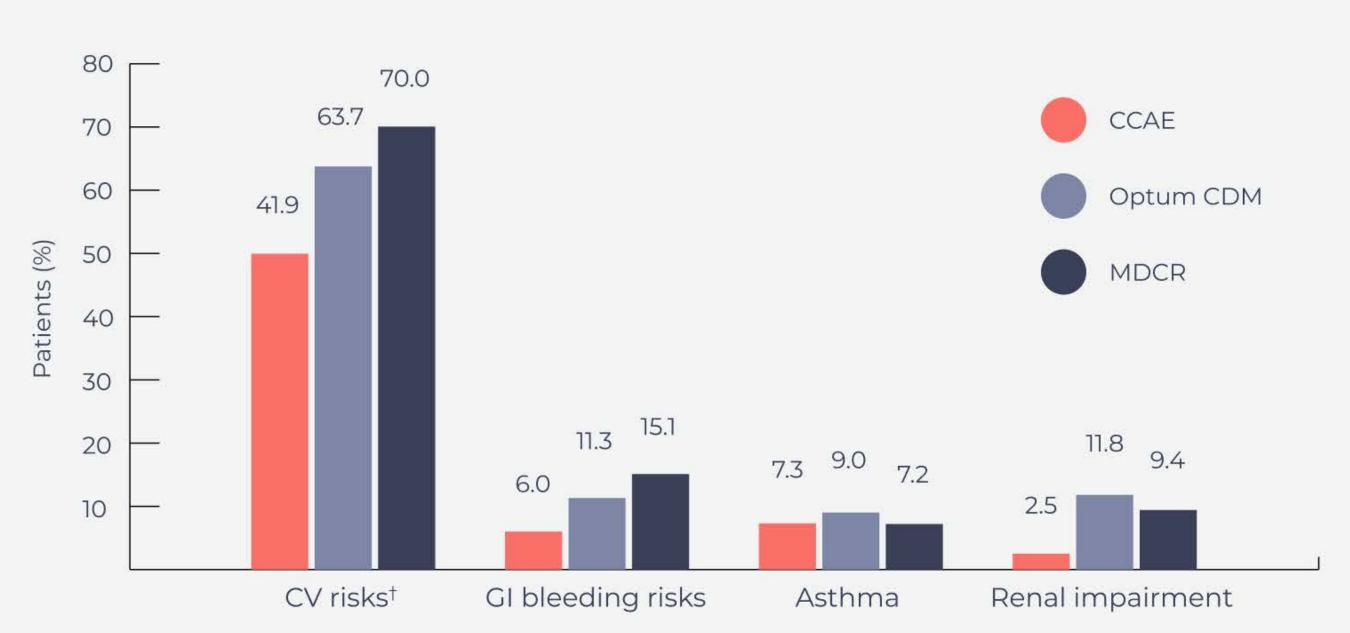
More than 50% of patients with OA have ≥1 comorbidity that may increase the risk of side effects associated with NSAID use¹





Up to 46% of these patients were prescribed and dispensed NSAIDs*

CV risks* were the most common CMCOI among patients diagnosed with OA



Patients with CMCOIs "may benefit from alternative analgesic options."

Suitable to consider for certain common comorbidities



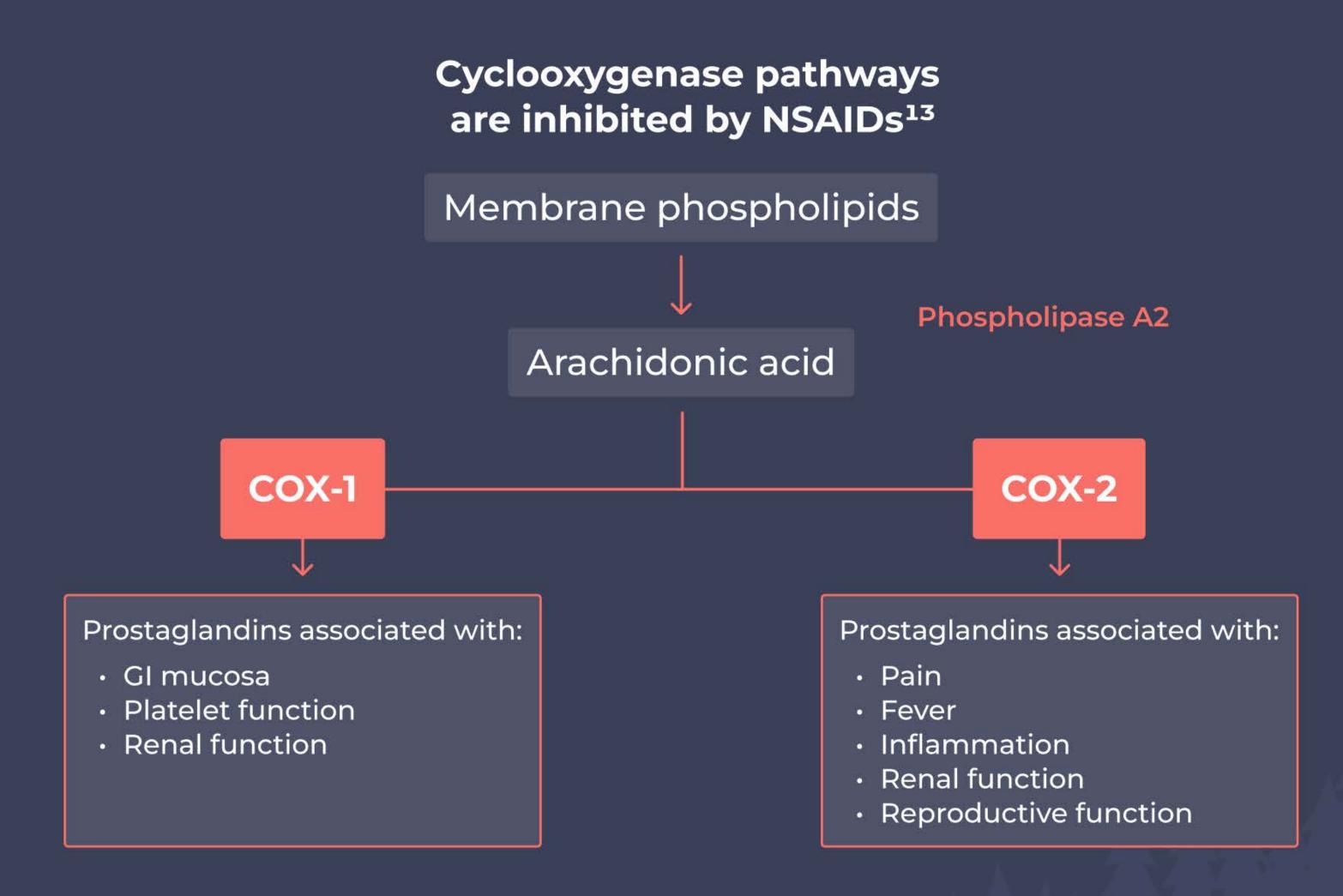
Acetaminophen won't increase the risk of heart attack, heart failure, and stroke the way ibuprofen or naproxen sodium can⁵



Acetaminophen does not inhibit COX-1, an important enzyme in GI mucosal protection, the way NSAIDs can⁶⁻⁹



Acetaminophen does not compromise renal function in patients with existing kidney dysfunction when taken at recommended doses^{10–12}



TYLENOL® is an appropriate analgesic choice for people with certain comorbid conditions, such as GI bleeding, renal impairment and CV risk.

30–48% reductions in OA hip and knee pain with acetaminophen, plus improved physical function and stiffness²



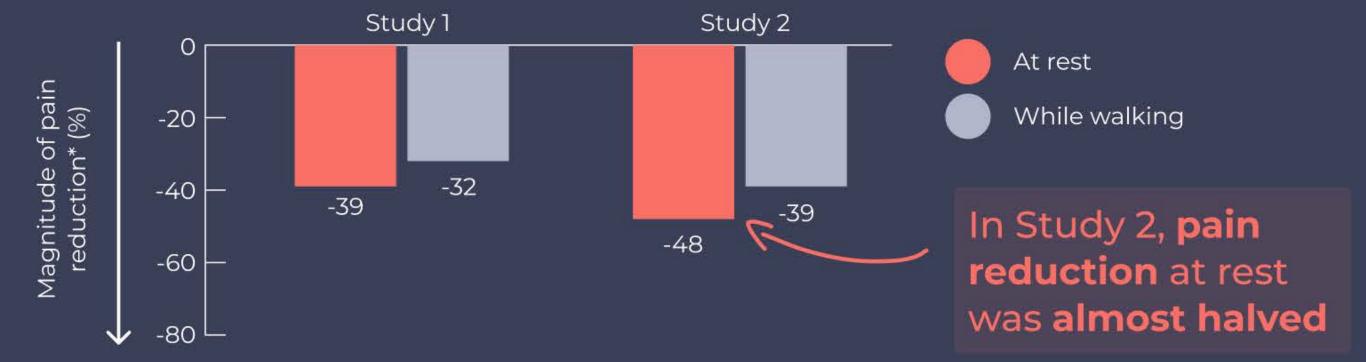
This study aimed to examine the efficacy and safety of acetaminophen using patient-reported outcomes from 5 home-use studies.



Analysis of 5 randomized, double-blind, active-controlled, multiple-dose, parallel, multicenter, home-use studies of acetaminophen in **856 individuals** with radiographically confirmed hip or knee OA, with dosing ≥4 weeks, conducted between 1993 and 2004. This study analyzed **5 studies** (2 unpublished, 3 published) **following 1, 2, and 4 weeks of treatment** with acetaminophen-IR 4000 mg or acetaminophen-ER 3900 mg. Study populations were similar across the 5 studies.

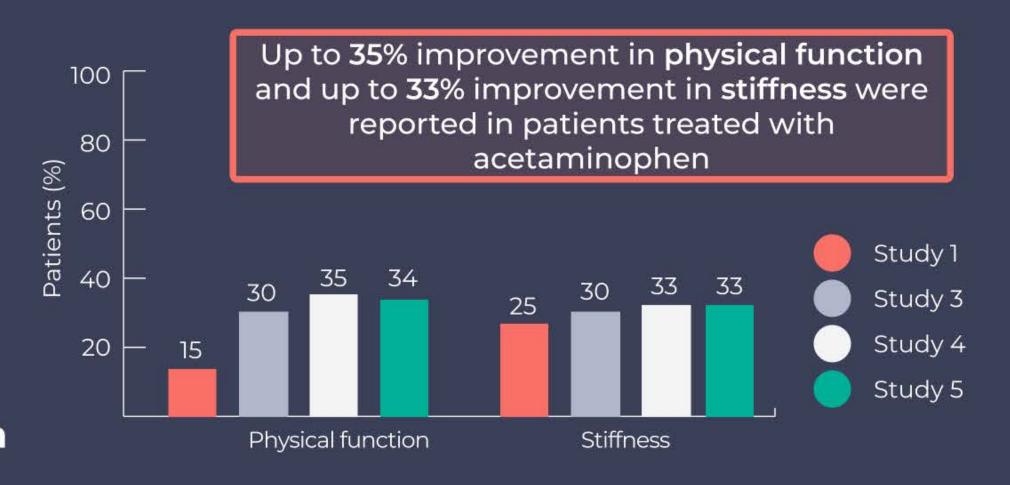
- · In Study 1, 46 participants, in Study 2, 96, and in Study 3, 287 used acetaminophen-IR 4000 mg/day
- · In Study 4, 160 participants and in Study 5, 267 used acetaminophen-ER 3900 mg/day

Pain reduction at Weeks 1, 2, and 4 in Studies 1 and 2*



This analysis confirms the analgesic effectiveness and safety of acetaminophen in the management of "moderate to moderately severe pain related to hip and knee OA", while also improving physical function and reducing stiffness.

Improvements in physical function and stiffness on the WOMAC scale



^{*}Presented is the highest recorded pain reduction at rest and on walking in each study, reported via a 5-point scale. Ranges are as follows: In Study 1, participants reported 36–39% reduction in pain at rest and 30–32% reduction in pain on walking; in Study 2, participants reported 38–48% reductions in pain at rest and 30–39% reduction in pain on walking.

Multimodal approaches combining pharmacologic methods with lifestyle changes can effectively manage OA symptoms^{3,4}

A multimodal approach to pain management that addresses several aspects of chronic pain conditions, such as biopsychosocial effects of the condition, has been documented to:³



Reduce pain severity



Improve mood and overall QoL



Increase physical functioning

Improving physical function can help patients integrate exercise into their OA management, potentially reducing pain and further enhancing physical function^{14,15}



Losing 1 pound of body weight





In a study of older persons with knee OA, moderate exercise 3 times per week reduced the risk of developing ADL disability by 43%¹⁴

Studies show that combining lifestyle changes, such as exercise, with pharmacologic approaches, as well as considering the biopsychosocial effects of a condition can reduce pain and improve outcomes for patients with OA.

Patients with OA with and without comorbidities show similar trends in NSAID prescribing and dispensing,¹ yet those with comorbid conditions may benefit from alternative analgesics such as TYLENOL®, which is suitable for individuals with conditions such as GI bleeding, renal impairment, and CV risk.^{5–12}

Research supports the efficacy and safety of acetaminophen in managing moderate to moderately severe pain related to hip and knee OA while also improving physical function and reducing stiffness.² Additionally, combining lifestyle changes, such as exercise, with pharmacologic treatments and addressing the biopsychosocial aspects of OA can further reduce pain and improve patient outcomes.^{3,4,14,15}

Acetaminophen aligns well with holistic and integrative treatment methods, offering effective pain management that complements other therapies while ensuring comprehensive care for patients with OA and comorbidities

References

- 1. Ide J, et al. *Drugs Aging* 2024;41:357-66;
- 2. McGuire JA, et al. Abstract 110. Presented at PAINWeek Conference 2024 (3-6 September 2024, Las Vegas, US);
- 3. Singh VM, et al. Pain Management Best Practices Inter-Agency Task Force Report: Updates, Gaps, Inconsistencies, and Recommendations. US Department of Health and Human Services; 2019. Accessed August 7, 2024. https://www.hhs.gov/sites/default/files/pmtf-final-report-2019-05-23.pdf;
- 4. Brander V. J Fam Pract 2011;60(11)(Suppl 2):S41–S7;
- 5. FDA strengthens warning of heart attack and stroke risk for non-steroidal antiinflammatory drugs. US Food and Drug Administration. Reviewed June 9, 2016. Accessed August 13, 2024. https://www.fda.gov/drugs/drug-safety-and-availability/fda-drug-safety-communication-fda-strengthens-warning-non-aspirin-nonsteroidal-anti-inflammatory;
- 6. Hoftiezer JW, et al. *Gut* 1982;23(8):692-7;
- 7. Blot WJ and McLaughlin JK. J Epidemiol Biostat 2000;5(2):137-42;
- 8. Naproxen. US National Library of Medicine. July 15, 2016. Accessed August 13, 2024. https://www.nlm.nih.gov/medlineplus/druginfo/meds/a681029.html;
- 9. Frech EJ and Go MF. Ther Clin Risk Manag 2009;5(1):65-73;
- 10. Prescott LF, et al. *Eur J Clin Pharmacol* 1989;36(3):291–7;
- 11. Martin U, et al. Eur J Clin Pharmacol 1991;41(1):43-6;
- 12. Weir R. Cleve Clin J Med 2002;69(Suppl 1):S153-8;
- 13. Serpell MG, et al. *Acute Pain* 1998;1(3):31–47;
- 14. Penninx BW, et al. Arch Intern Med 2001;161(19):2309-16;
- 15. Messier SP, et al. *Arthritis Rheum* 2005;52(7):2026–32.

