

# IQVIA AI-Assisted Scientific Literature Review

*A powerful solution to support you in gaining faster insight from massive volumes of published scientific literature*

As the volume of published scientific research continues to grow, the time and effort required to perform necessary scientific literature reviews expands accordingly. Continuing to employ traditional, manual-only review is becoming increasingly untenable. Fortunately, the responsible use of increasingly accepted technologies like Generative AI offers new ways to tackle this problem.

IQVIA's AI-Assisted Literature Review solution — powered by IQVIA *Healthcare-grade AI™* — accelerates and enhances the scientific literature review process. It acts as an AI assistant, expediting a previously tedious, manual process and enables experts to focus their time on what matters — generating accurate, high-quality outputs. This allows your team to drive greater value by gaining faster insight from massive volumes of scientific literature.

## 70% faster extraction per document

Join the other Top 10 Pharma companies benefiting from IQVIA's Scientific Literature Review solution, powered by IQVIA *Healthcare-grade AI™*. Customers have found they can reduce their per-document processing time from 12 to 4 hours, making AI-assisted review 3x faster than manual.



### IS YOUR ORGANIZATION...

- Struggling to **identify which articles are most relevant** to your scientific literature review due to the vast number of publications available?
- Finding that conducting a thorough literature review **is a time-consuming process** that leads to **increasing costs**?
- Unable to keep up with the complex demands related to scientific literature reviews, finding it difficult to navigate in a timely manner?

#### ACCELERATE INSIGHT

Having an AI-enabled review process and centralized literature database makes our solution 3X faster than manual literature review, while generating a documented and auditable search strategy.

#### DRIVE INNOVATION

By automating time-consuming, expensive search, you'll ensure your research captures the most current data insights, enabling previously out of reach living reviews.

#### FUEL GROWTH

AI-assisted review allows extraction of more information from more documents than is practically possible by hand, uncovering insights that were previously unavailable.

## Challenges of manual-only literature review

Implementing effective scientific literature reviews is critical to drug development and approval, empowering analysis and evaluation of a large volume of scientific literature to support clinical decision-making.

Yet most organizations lack access to an AI-enabled centralized database of easily queried and searchable documents and the tech and specialized expertise needed to extract meaningful information quickly while conducting a thorough literature review.

Many struggle with the sheer volume of documents, with some analysis left entirely out of reach because

doing a deep comprehensive review manually would take a year or more. The traditional solution to this problem is restricting the search, thereby narrowing the results. But, of course, this means missing out on a wide range of potential insights that could produce the comprehensive evidence needed to accelerate market access and drug approval.

IQVIA's AI-Assisted Scientific Literature Review solution enables your team to review a much larger volume of documents, giving you access to more information and insight to drive informed decision-making.

Our modular solution can be tailored to your needs, depending on where you most need help to accelerate your scientific literature review, whether in the discovery, search, extraction, or review phase.

	1. DISCOVER	2. SEARCH	3. EXTRACT	4. REVIEW
<b>CHALLENGE</b>	[x] Tedious manual work to surface relevant studies	[x] Large unmanageable corpus	[x] Extracting data slow, error-prone and costly to scale	[x] Complex to synthesize evidence
<b>IQVIA SOLUTION COMPONENTS</b>	✓ Intuitive search interface	✓ Massive content database, pre-licensed	✓ Advanced data extraction tech and QC tools	✓ Data visualization and GenAI-enabled insight
<b>HOW YOU BENEFIT</b>	✓ Auditable, tech-enabled search, tools for search strategy design	✓ Focused, precise, high-quality search results	✓ Scalable, affordable extraction pipeline	✓ Faster insight, reporting, manuscript writing

## IQVIA *Healthcare-grade AI*<sup>™</sup> delivers living review database for top 10 pharma client

**Situation:** The volume and velocity of published research related to COVID-19 is unprecedented in scale and diversity. The ongoing extraction of insights from such rich and expansive information posed a significant challenge for a top 10 pharma client seeking enhanced publication monitoring with efficient selection and accurate extraction from the most relevant and high-quality peer-reviewed articles.

**Solution:** The capabilities of IQVIA *Healthcare-grade AI*<sup>™</sup> enabled a "living review" database in which key publication databases were continuously searched, appropriate papers selected for review, and real-world data was extracted from the published studies, giving the client increased insight into the desired research. Generative AI and Natural Language Processing (NLP) methods were combined with IQVIA Evidence Synthesis expertise to semi-automate data curation, extraction, and synthesis to expedite the literature review process. Our Human-Assisted Review Tool (HART) ensured prompt validation of results with expert oversight to ensure accuracy.

**Results:** The living review's advanced search and extraction capabilities delivered significant results for the client, including a 70% reduction in manual data extraction efforts. Adapting methods based on IQVIA expert feedback from HART allowed for seamless integration between experts and AI, delivering capabilities precisely optimized for the client's needs.

**For more information on IQVIA's AI-Assisted Scientific Literature Review solution — powered by IQVIA *Healthcare-grade AI*<sup>™</sup> — contact our experts at [AppliedAIScienceInfo@iqvia.com](mailto:AppliedAIScienceInfo@iqvia.com) or +1 866 267 4479.**



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