



# Systematic Literature Review for Scientific Publication



## Customer

Pharmaceutical company/HEOR team

## Objective

- Conduct a systematic literature review of observational studies summarizing real-world treatment patterns in men with metastatic castration-resistant prostate cancer (mCRPC).
- Ensure compliance with PRISMA guidelines and generate evidence for publication quality.

## Scope

Systematic literature review to identify, screen, extract, and summarize real-world evidence on treatment patterns in men with mCRPC.

## Approach

- Protocol Setup:** Bayer shared review objectives, SME team designed workflow following PRISMA guidelines.
- Multi-Database Search:** PubMed, Embase, and other relevant registries with automated deduplication.
- AI-Assisted Screening:** Title/abstract and full-text screening with traceability and relevance scoring.
- Double-Blind Validation:** Two independent reviewers validated AI screening, conflicts resolved.
- Data Extraction:** Platform extracted key data elements automatically, SME team performed in-depth treatment-arm extraction for analysis.
- Summarization:** AI-generated single-article, multi-article, and table summaries, SME Validated.
- Deliverable:** PRISMA flowchart, summaries, and manuscript-ready outputs validated by SMEs, with citations, structured tables, and treatment insights.

## Result

| Methodology                    | Volume | Project Timeline | AI Accuracy |
|--------------------------------|--------|------------------|-------------|
| AI-aided double-blinded Review | 4,552  | 9 weeks          | 87%         |