



Targeted Literature Review and Social Media Listening for Pompe Disease

Customer

Pharmaceutical company

Objective

The study aimed to establish a comprehensive evidence base on disease burden, progression, current management, and unmet needs across infantile-onset and late-onset Pompe disease by integrating findings from a targeted literature review (TLR) and real-world patient and caregiver insights from social media listening (SML).

Scope

Literature search, screening, data extraction, and synthesis, complemented by social media listening across infantile-onset and late-onset Pompe disease.

Approach



Protocol Setup: MadeAi's SME team developed a structured TLR protocol covering search strategy, eligibility criteria, screening, and data extraction.



Multi-Database Search: PubMed and Embase were searched (2010–2026) with automated deduplication, alongside social media searches for Pompe disease content.



AI-aided Screening: AI-assisted title/abstract and full-text screening was combined with human review, including independent QC of 15% of records. Social media posts were screened and coded.



AI-aided Data Extraction & Data Analysis: AI-assisted extraction with SME review and QC supported analysis of clinical evidence and social media insights on disease burden, needs, and sentiment.



Deliverables: A structured report integrating literature and social media insights on disease burden, management, and the treatment landscape.

Results

Methodology	Volume	Project Timeline	AI Accuracy
AI-Assisted TLR with Independent QC	4,992 articles	6–8 weeks	86%
Social Media Listening	~6,000 posts	6–8 weeks	-