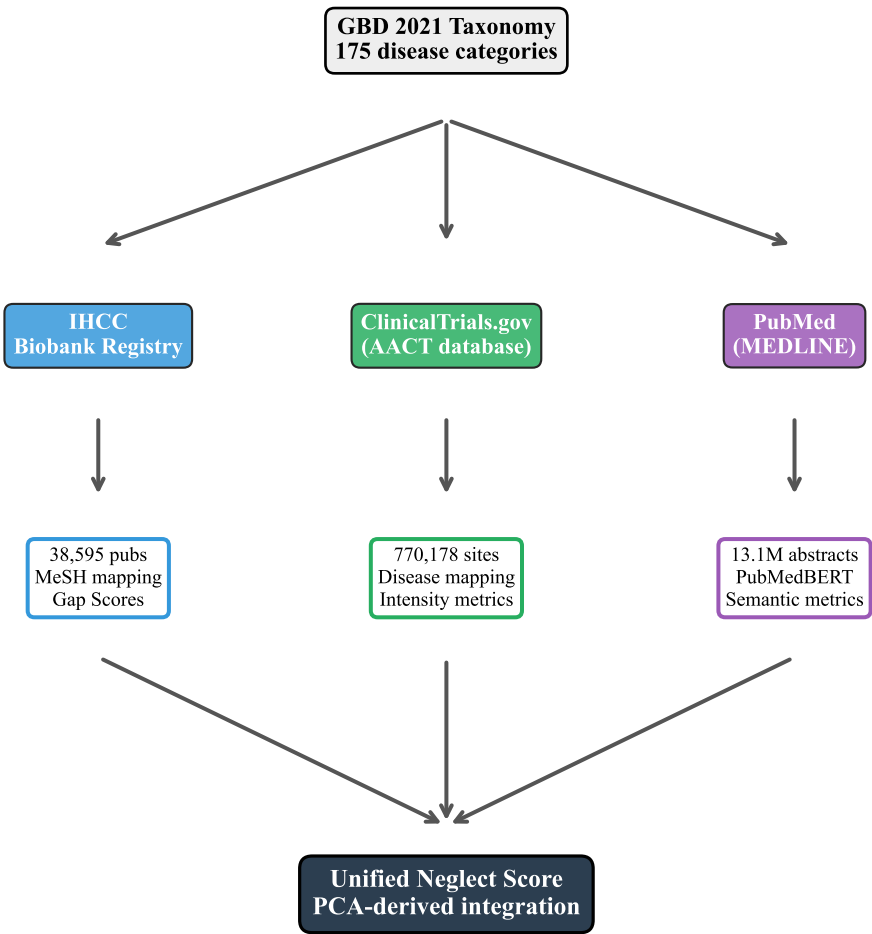


a

Discovery	Translation	Knowledge
<i>Biobanks</i>	<i>Clinical Trials</i>	<i>Scientific Literature</i>
70 biobanks 29 countries 38,595 publications	563,725 trials 770,178 sites 194 countries	13.1 million abstracts 175 diseases PubMedBERT embeddings
Key metrics: Gap Score: research coverage vs. disease burden Equity Alignment Score (EAS): biobank-level equity	Key metrics: Research Intensity: trials per million DALYs Geographic Ratio: HIC vs. LMIC trial site distribution	Key metrics: Semantic Isolation Index (SII): distance from other disease research Knowledge Transfer Potential (KTP): cross-disease similarity

b



c

