**Appendix – Search Strategies**

**Librarian Searcher: Beth Blackwood, MSLS; Duke University Medical Center Library & Archives, Duke University School of Medicine**

**Peer Review of Search: Sarah Cantrell, MLIS; Duke University Medical Center Library & Archives, Duke University School of Medicine**

**MEDLINE (via PubMed)  
Search date: 6/3/2024**

|  |  |  |
| --- | --- | --- |
| Concept | Strategy | Results |
| #1 Epilepsy | "Epilepsy"[Mesh] OR "Seizures"[Mesh] OR "Drug Resistant Epilepsy"[Mesh] OR epilepsy[tiab] OR epileptic[tiab] OR epilepsies[tiab] OR epileptiform[tiab] OR seizure[tiab] OR seizures[tiab] | 273,740 |
| #2 RNS | "Implantable Neurostimulators"[Mesh] OR "responsive neurostimulation"[tiab] OR "responsive neuromodulation"[tiab] OR "RNS"[tiab] OR "closed loop stimulation"[tiab] OR NeuroPace[tiab] | 23,965 |
| #3 Combining | #1 AND #2 | 683 |
| #4 2005 Date Limiter | PubMed User-Interface: 2005- 2024 | 674 |
| #5 Validation String | 38194631 OR 30531428 OR **29393811 OR 28387951 OR 37891823 OR 31828780 OR 38608307** | 7/7 |

**Embase (via Elseiver)  
Search date: 6/3/2024**

|  |  |  |
| --- | --- | --- |
| Concept | Strategy | Results |
| #1 Epilepsy | 'epilepsy'/exp OR 'refractory epilepsy'/exp OR 'seizure'/exp OR (epilepsy OR epileptic OR epilepsies OR epileptiform OR seizure OR seizures):ti,ab | 501,526 |
| #2 RNS | 'implantable neurostimulator'/exp OR (‘responsive neurostimulation’ OR ‘responsive neuromodulation’ OR ‘RNS’ OR ‘closed loop stimulation’ OR NeuroPace):ti,ab | 18,088 |
| #3 Combining | #1 AND #2 | 1,598 |
| #4 Filter out conferences | #3 NOT ([conference abstract]/lim OR 'conference abstract'/exp OR 'conference abstract'/it) | 1,255 |
| #4 2005 Date Limiter | Limit "Publication Years" to 2005- 2024 | 1,249 |

**Web of Science (via Clarivate)  
Search date: 6/3/2024**

|  |  |  |
| --- | --- | --- |
| Concept | Strategy | Results |
| #1 Epilepsy | TS=(epilepsy OR epileptic OR epilepsies OR epileptiform OR seizure OR seizures) | 288,256 |
| #2 RNS | TS=(“Implantable Neurostimulators” OR "responsive neurostimulation" OR "responsive neuromodulation" OR "RNS" OR "closed loop stimulation" OR NeuroPace) | 11,306 |
| #3 Combining | #1 AND #2 | 699 |
| #4 2005 Date Limiter | Limit "Publication Years" to 2005- 2024 | 694 |
| #5 Limit to Studies | Limit "Publication Type" to "Article" and "Review Article" | 579 |