Supplemental Table 1: Summary of Machine Learning Process for Abstract Screening in Phase 2

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| --- | --- | --- | --- | --- | --- | --- |
|  | **Initial Learning** | **Round 1** | **Round 2** | **Round 3** | **Round 4** | **Random Sample** |
| **Probability Cutoff** | N/A | .5 | .6 | .5 | .45 | N/A |
| **# of Abstracts Reviewed** | 106\* | 1296 | 382 | 82 | 65 | 83 |
| **% of Abstracts Reviewed (Cumulative)** | N/A | 15% | 19% | 20% | 21% | 22% |

\*34 SME pairs selected “yes” articles and 72 “no” articles from within the Phase 2 abstracts; the “yes” articles had been identified a priori to help research librarians test the search strategies.

This process was applied for pooled abstracts (N = 8,659) from the updated searches addressing physical activity and nutrition interventions but not including health education.