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.