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| **Inventory of supplemental materials** | | | |
| File name | Specific content | | Corresponding parts in the manuscript |
| Codes | Codes for developing sentiment analysis models | Codes for developing Bert-based model | Section 3.3 |
| Codes for developing Textcnn-based model | Section 3.3 |
| Codes for developing Textrnn-based model | Section 3.3 |
| Codes for developing Textrcnn-based model | Section 3.3 |
| Codes for developing CapsuleNet-based model | Section 3.3 |
| Codes for developing positive/negative topic classification models | Codes for developing Bert-based model | Section 3.3 |
| Codes for developing Textcnn-based model | Section 3.3 |
| Codes for developing Textrnn-based model | Section 3.3 |
| Codes for developing Textrcnn-based model | Section 3.3 |
| Codes for developing CapsuleNet-based model | Section 3.3 |
| Screenshots | Performance of 5 sentiment analysis models | | Section 3.4 |
| Performance of 5 positive topic classification models | | Section 3.4 |
| Performance of 5 negative topic classification models | | Section 3.4 |
| Table S1 Collected and processed SMD | Experts to determine topics | | Section 3.2 |
| Collected and Processed SMD | | Section 4.1 |
| Keywords for searching SMD | | Section 4.1 |
| Percentage of SMD with location | | Section 4.1 |
| Dataset I for developing sentiment analysis models | | Section 4.1 (Table 3) |
| Dataset II for developing positive topic classification models | | Section 4.1 (Table 3) |
| Dataset III for developing negative topic classification models | | Section 4.1 (Table 3) |
| Table S2 Performance comparison among optional models | Performance values of 5 sentiment analysis models | | Section 4.1 (Fig. 4) |
| Performance values of 5 positive topic classification models | | Section 4.1 (Fig. 4) |
| Performance values of 5 negative topic classification models | | Section 4.1 (Fig. 4) |
| Table S3 Details of the results | Time-varying public sentiments toward MCHs during MCH policy lifecycle | | Section 4.2.1 (1) |
| Region-varying volumes and proportions of public sentiments toward MCHs | | Section 4.2.1 (2) |
| Multiple sub tables regarding topic-labeled SMD over time | | Section 4.2.2 (1) |
| Multiple sub tables regarding topic-labeled SMD across regions | | Section 4.2.2 (2) |