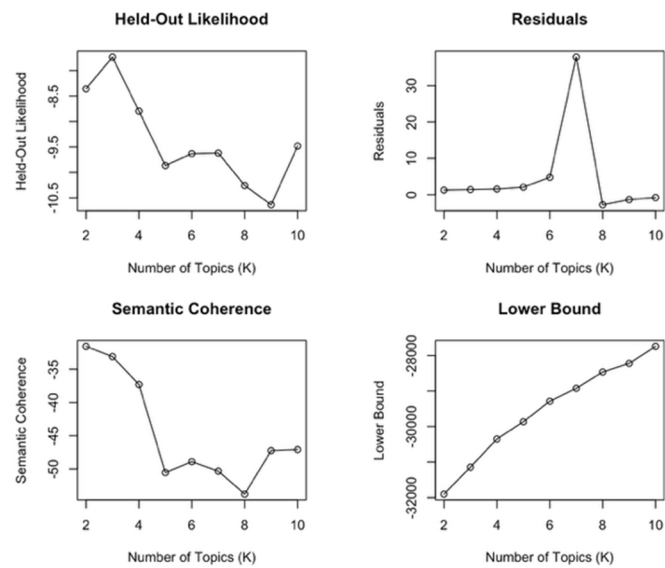
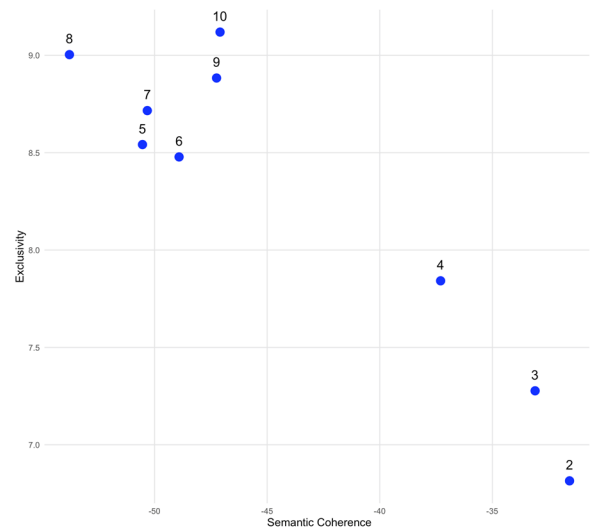


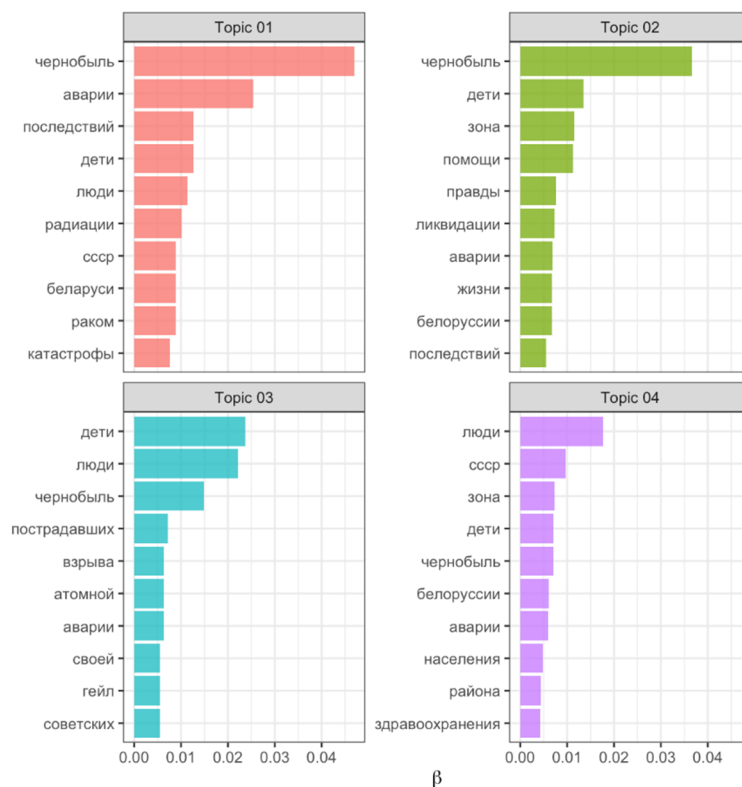
Supplemental Material



**Figure S1.** Diagnostic values of held-out likelihood, residuals, semantic coherence, and lower bound for topics ( $k = 2-10$ ) for articles from the newspaper publication *Pravda*.



**Figure S2.** Tradeoff between semantic coherence and exclusivity across search topics ( $k = 2-10$ ) for articles from the newspaper publication *Pravda*.

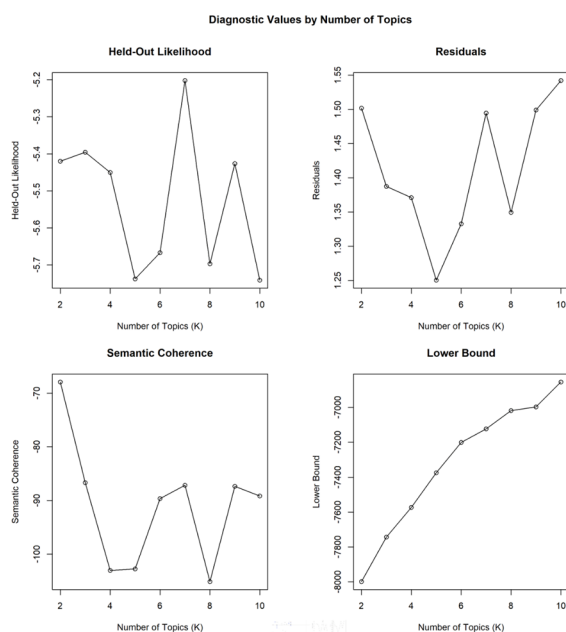


**Figure S3.** Highest word probabilities for each topic following STM analysis for articles in the newspaper publication *Pravda*.

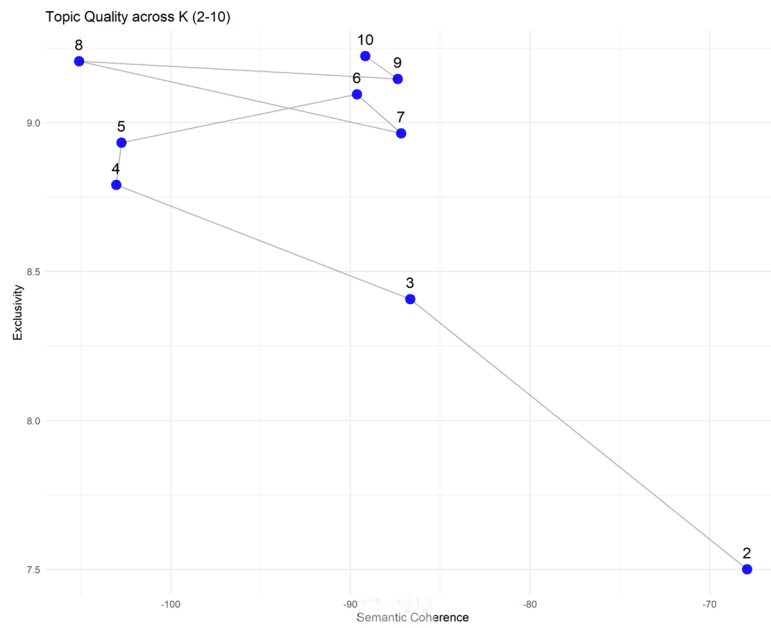
English translation for Figure S3:

|                              |                                    |
|------------------------------|------------------------------------|
| 01                           | 02                                 |
| чернобыль – Chernobyl        | чернобыль – Chernobyl              |
| аварии – accident / disaster | дети – children                    |
| последствий – consequences   | зона – zone                        |
| дети – children              | помощи – assistance / aid          |
| люди – people                | правды – truth                     |
| радиации – radiation         | ликвидации – liquidation / cleanup |
| ссср – USSR                  | аварии – accident / disaster       |
| беларуси – Belarus           | жизни – life / lives               |
| раком – cancer               | белоруссии – Belarus               |
| катастрофы – disaster        | последствий – consequences         |

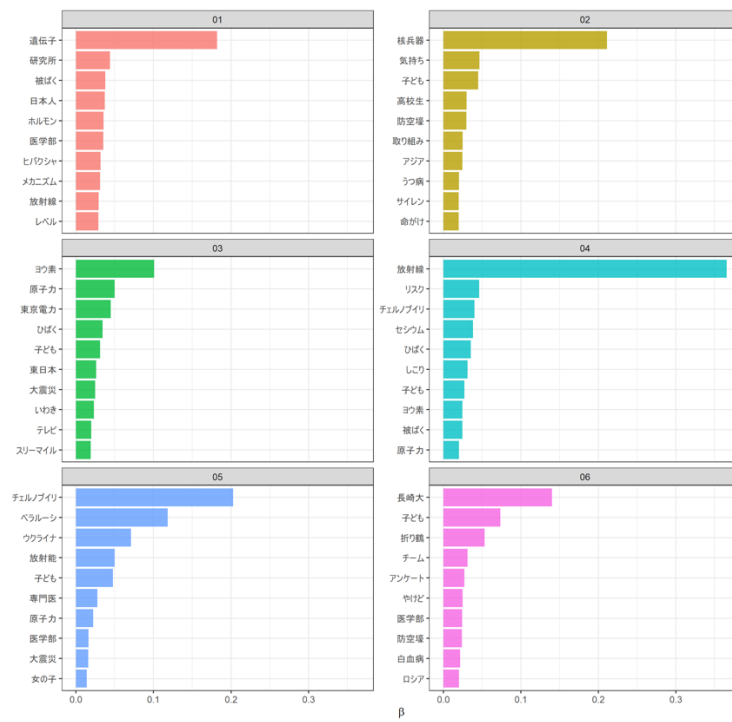
|                                 |                              |
|---------------------------------|------------------------------|
| 03                              | 04                           |
| дети – children                 | люди – people                |
| люди – people                   | ссср – USSR                  |
| чернобыль – Chernobyl           | зона – zone                  |
| пострадавших – affected victims | дети – children              |
| взрыва – explosion              | чернобыль – Chernobyl        |
| атомной – atomic / nuclear      | белоруссии – Belarus         |
| аварии – accident / disaster    | аварии – accident / disaster |
| своей – one's own               | населения – population       |
| гейл – Gale                     | района – district / region   |
| советских – Soviet              | здравоохранения – healthcare |



**Figure S4.** Diagnostic values of held-out likelihood, residuals, semantic coherence, and lower bound for topics ( $k = 2-10$ ) for articles from the newspaper publication (Yomidas: Yomiuri Database Service).



**Figure S5.** Tradeoff between semantic coherence and exclusivity across search topics ( $k = 2-10$ ) for articles from the newspaper publication (Yomidas: Yomiuri Database Service).



**Figure S6.** Highest word probabilities for each topic following STM analysis for articles in the newspaper publication (Yomidas: Yomiuri Database Service).

English translation for Figure S6:

|                                             |                            |
|---------------------------------------------|----------------------------|
| 01                                          | 02                         |
| 遺伝子 – Genes                                 | 核兵器 – Nuclear weapons      |
| 研究所 – Research institute                    | 気持ち – Feelings             |
| 被ばく – Exposure                              | 子ども – Children             |
| 日本人 – Japanese people                       | 高校生 – High school students |
| ホルモン – Hormone                              | 防空壕 – Air-raid shelter     |
| 医学部 – School of medicine                    | 取り組み – Efforts             |
| ヒバクシャ – Hibakusha (A-bomb survivors)        | アジア – Asia                 |
| メカニズム – Mechanism                           | うつ病 – Depression           |
| 放射線 – Radiation                             | サイレン – Siren               |
| レベル – Level                                 | 命がけ – Risking one's life   |
| 03                                          | 04                         |
| ヨウ素 – Iodine                                | 放射線 – Radiation            |
| 原子力 – Nuclear power                         | リスク – Risk                 |
| 東京電力 – TEPCO (Tokyo Electric Power Company) | チェルノブイリ – Chernobyl        |
| ひばく – Exposure                              | セシウム – Cesium              |
| 子ども – Children                              | ひばく – Exposure             |
| 東日本 – Eastern Japan                         | しこり – Nodule               |
| 大震災 – Great Earthquake                      | 子ども – Children             |
| いわき – Iwaki City                            | ヨウ素 – Iodine               |
| テレビ – Television                            | 被ばく – Exposure             |
| スリーマイル – Three Mile Island                  | 原子力 – Nuclear power        |
| 05                                          | 06                         |

|                          |                           |
|--------------------------|---------------------------|
| チェルノブイリ – Chernobyl      | 長崎大 – Nagasaki University |
| ベラルーシ – Belarus          | 子ども – Children            |
| ウクライナ – Ukraine          | 折り鶴 – Origami cranes      |
| 放射能 – Radioactivity      | チーム – Team                |
| 子ども – Children           | アンケート – Questionnaire     |
| 専門医 – Medical specialist | やけど – Burn                |
| 原子力 – Nuclear power      | 医学部 – School of medicine  |
| 医学部 – School of medicine | 防空壕 – Air-raid shelter    |
| 大震災 – Great Earthquake   | 白血病 – Leukemia            |
| 女の子 – Girl               | ロシア – Russia              |