

Supplementary Statistical Dataset for Manuscript

Manuscript title

Reliability, Quality and Informationological Profile of Online Information on Antibiotic Use in Periodontal Disease Treatment in Turkey: A Cross-sectional Web-based Content Analysis

Note

This workbook contains data set.

| Table 1. Source characteristics and transparency indicators |             |                     |                       |                          |                  |
|-------------------------------------------------------------|-------------|---------------------|-----------------------|--------------------------|------------------|
|                                                             | Total n (%) | Private clinic n=61 | Private hospital n=12 | Prevalence estimate n=12 | Common risk n=13 |
| Authorship stated                                           | 43 (37.1)   | 18 (29.5)           | 5 (41.7)              | 5 (39.5)                 | 7 (28.8)         |
| Scientific/professional references cited                    | 22 (19.0)   | 6 (9.8)             | 3 (25.0)              | 8 (80.0)                 | 4 (21.1)         |
| Date of publication/update stated                           | 33 (28.4)   | 12 (19.7)           | 4 (33.3)              | 8 (80.0)                 | 5 (26.3)         |
| Advertising or service-promotion language present           | 68 (58.0)   | 40 (80.3)           | 7 (58.3)              | 1 (10.0)                 | 3 (21.4)         |
| Prescription requirement mentioned                          | 54 (46.0)   | 22 (36.1)           | 7 (58.3)              | 8 (80.0)                 | 9 (67.1)         |
| Antimicrobial resistance mentioned                          | 32 (27.0)   | 11 (18.0)           | 5 (41.7)              | 7 (75.0)                 | 5 (26.3)         |

| Table 2. Reliability, quality, clinical alignment and readability scores by source type |                    |                  |                  |                          |                  |
|-----------------------------------------------------------------------------------------|--------------------|------------------|------------------|--------------------------|------------------|
|                                                                                         | Total median (IQR) | Private clinic   | Private hospital | Prevalence estimate n=12 | Common risk n=13 |
| JAMA score (0-4)                                                                        | 1.0 (1.0-2.0)      | 1.0 (0.0-1.0)    | 2.0 (1.0-2.0)    | 1.0 (0.0-1.0)            | 1.0 (1.0-1.0)    |
| DISCERN total (16-40)                                                                   | 36.0 (31.0-46.0)   | 36.0 (29.0-45.0) | 43.0 (35.0-51.0) | 40.0 (35.0-45.0)         | 43.0 (35.0-51.0) |
| GOE (1-5)                                                                               | 2.0 (2.0-3.0)      | 2.0 (1.0-3.0)    | 3.0 (2.0-3.0)    | 4.0 (3.0-5.0)            | 3.0 (2.0-3.0)    |
| Clinical alignment (0-8)                                                                | 3.0 (1.0-5.0)      | 3.0 (1.0-4.0)    | 4.0 (2.0-5.0)    | 4.0 (3.0-5.0)            | 4.0 (3.0-5.0)    |
| Assess readability (0-100)                                                              | 54.5 (45.3-63.7)   | 56.1 (47.0-65.0) | 51.2 (44.3-58.4) | 54.5 (45.3-63.7)         | 56.1 (47.0-65.0) |
| Bustro-Yimor estimated grade                                                            | 12.4 (10.8-14.1)   | 12.0 (10.4-13.8) | 12.8 (11.1-14.3) | 13.7 (12.3-15.0)         | 13.2 (11.6-14.8) |

| Table 3. Periodontal antibiotic stewardship characteristics                        |               |              |
|------------------------------------------------------------------------------------|---------------|--------------|
| Characteristic                                                                     | Present n (%) | Absent n (%) |
| Professional consultation before antibiotic use                                    | 25 (21.6)     | 91 (78.4)    |
| Antibiotics described as injectors, not standard treatment                         | 64 (37.9)     | 72 (82.1)    |
| Mechanical debridement (surgical) treatment described                              | 52 (44.8)     | 64 (55.2)    |
| Differentiation between gingivitis, periodontitis, abscess and necrotizing disease | 31 (26.7)     | 85 (73.3)    |
| Warning against self-medication                                                    | 47 (40.5)     | 69 (59.5)    |
| Adverse effects, allergy or drug interactions mentioned                            | 59 (50.8)     | 57 (49.2)    |
| Antimicrobial resistance mentioned                                                 | 32 (27.0)     | 84 (73.0)    |
| Unmet-care not fact described                                                      | 39 (33.0)     | 77 (67.0)    |

| Table 4. Informationological characteristics according to search visibility and message features |                  |                                   |                                 |
|--------------------------------------------------------------------------------------------------|------------------|-----------------------------------|---------------------------------|
|                                                                                                  | Present n (%)    | High visibility: first 10 results | Low visibility: last 10 results |
| Private clinic source                                                                            | 61 (52.0)        | 41 (81.2)                         | 20 (40.0)                       |
| Professional/university source                                                                   | 10 (8.0)         | 3 (14.3)                          | 7 (14.3)                        |
| Promotional language in literature                                                               | 68 (58.0)        | 47 (94.1)                         | 21 (42.0)                       |
| Snippet mentions "antibiotic treatment" as main phrase                                           | 73 (62.0)        | 48 (96.0)                         | 25 (50.0)                       |
| Snippet mentions prescription or dental control                                                  | 28 (24.1)        | 12 (24.0)                         | 16 (32.0)                       |
| Median DISCERN score                                                                             | 36.0 (31.0-46.0) | 35.0 (29.0-44.0)                  | 43.0 (34.0-52.0)                |
| Median clinical alignment score                                                                  | 3.0 (1.0-5.0)    | 2.0 (1.0-4.0)                     | 4.0 (2.0-5.0)                   |

| Internal frequency checks from Raw Data |                          |        |    |
|-----------------------------------------|--------------------------|--------|----|
| Expected                                | Calculated from Raw Data | Status |    |
| Total webpages                          | 116                      | 116    | OK |
| Private clinic                          | 61                       | 61     | OK |
| Professional/university                 | 10                       | 10     | OK |
| Authorship stated                       | 43                       | 43     | OK |
| References cited                        | 22                       | 22     | OK |
| Date stated                             | 33                       | 33     | OK |
| Promotional language                    | 68                       | 68     | OK |
| Promotional language / high visibility  | 47                       | 47     | OK |
| Prescription requirement                | 54                       | 54     | OK |
| Antimicrobial resistance                | 32                       | 32     | OK |
| DISCERN score/very poor count           | 75                       | 75     | OK |
| High visibility webpages                | 67                       | 67     | OK |