

This is a repository copy of *Oral hygiene and infective endocarditis: a case control study*.

White Rose Research Online URL for this paper: https://eprints.whiterose.ac.uk/196888/

Version: Supplemental Material

## Article:

Lockhart, P., Chu, V., Zhao, J. et al. (12 more authors) (2023) Oral hygiene and infective endocarditis: a case control study. Oral Surgery, Oral Medicine, Oral Pathology and Oral Radiology. ISSN 2212-4403

https://doi.org/10.1016/j.oooo.2023.02.020

Article available under the terms of the CC-BY-NC-ND licence (https://creativecommons.org/licenses/by-nc-nd/4.0/).

## Reuse

This article is distributed under the terms of the Creative Commons Attribution-NonCommercial-NoDerivs (CC BY-NC-ND) licence. This licence only allows you to download this work and share it with others as long as you credit the authors, but you can't change the article in any way or use it commercially. More information and the full terms of the licence here: https://creativecommons.org/licenses/

## Takedown

If you consider content in White Rose Research Online to be in breach of UK law, please notify us by emailing eprints@whiterose.ac.uk including the URL of the record and the reason for the withdrawal request.



**Table 2. Dental and Medical History** 

## **Dental History**

|  | Case (N=61)† | Control (N=119) | p-value |
|--|--------------|-----------------|---------|
|  |              |                 |         |
| Frequency of dentist or dental hygienist office visits |              |                 | 0.013   |
| - Two or more times per year                           | 33(54.1)     | 82(68.9)        |         |
| - One time per year                                    | 7(11.5)      | 17(14.3)        |         |
| - Less than once a year                                | 8(13.1)      | 10(8.4)         |         |
| - Emergency only                                       | 6(9.8)       | 9(7.6)          |         |
| - Never  | 7(11.5)      | 1(0.84)         |         |
| Number of dental office visits in the past 12 weeks    |              |                 | 0.007   |
| - None   | 49(80.3)     | 69(58.0)        |         |
| - 1  | 9(14.8)      | 43(36.1)        |         |
| - 2  | 1(1.6)       | 5(4.2)          |         |
| - 3  | 2(3.3)       | 2(1.7)          |         |
| Toothbrushing frequency                                |              |                 | 0.80    |
| - 3x/day or more                                       | 7(11.5)      | 12(10.1)        |         |
| - 2x/day   | 34(55.7)     | 76(63.9)        |         |
| - 1x/day   | 18(29.5)     | 28(23.5)        |         |
| - Less than once per day                               | 1(1.6)       | 2(1.7)          |         |
| - Weekly   | 1(1.6)       | 1(0.84)         |         |
| Gingival bleeding with tooth brushing                  |              |                 | 0.60    |
| - No   | 45(73.8)     | 93(78.2)        |         |
| - Yes, less than 50% of the time                       | 10(16.4)     | 20(16.8)        |         |
| - Yes, about 50% of the time                           | 3(4.9)       | 4(3.4)          |         |
| - Yes, more than 50% of the time                       | 3(4.9)       | 2(1.7)          |         |
| Frequency of dental flossing                           |              |                 | 0.37    |
| - 1x or more/day                                       | 37(60.7)     | 54(45.4)        | 0.052   |
| - Less than 1x/day                                     | 24(39.3)     | 65(54.6)        |         |
|  |              |                 |         |

| past 12 weeks  |          |          |         |  |  |
|--|----------|----------|---------|--|--|
| Medical History*                                     |          |          |         |  |  |
|  | Case     | Control  | p-value |  |  |
|  | (N=62)   | (N=119)  |         |  |  |
| Chronic Pulmonary Disease                            | 4(6.5)   | 11(9.2)  | 0.52    |  |  |
| Coronary Artery Disease                              | 6(9.7)   | 12(10.1) | 0.93    |  |  |
| Cerebrovascular Disease; History of CVA or TIA       | 12(19.4) | 6(5.0)   | 0.002   |  |  |
| HIV  | 0(0.0)   | 1(0.84)  | 0.99    |  |  |
| Congenital heart disease                             | 13(21.0) | 42(35.3) | 0.047   |  |  |
| Chronic Kidney Disease                               | 8(12.9)  | 6(5.0)   | 0.079   |  |  |
| Cancer:  |          |          |         |  |  |
| - Solid Organ  | 0(0.0)   | 1(0.84)  | 0.99    |  |  |
| - Melanoma   | 0(0.0)   | 1(0.84)  | 0.99    |  |  |
| - Gastrointestinal (Colon, Small Intestine, Stomach) | 0(0.0)   | 1(0.84)  | 0.99    |  |  |
| Crohn's Ulcerative Colitis                           | 1(1.6)   | 5(4.2)   | 0.67    |  |  |
| Peptic Ulcer Disease                                 | 4(6.5)   | 3(2.5)   | 0.23    |  |  |
| Liver Disease  | 6(9.7)   | 3(2.5)   | 0.065   |  |  |
| Hypertension   | 29(46.8) | 53(44.5) | 0.77    |  |  |
| Immunosuppressive Therapy                            | 3(4.8)   | 2(1.7)   | 0.34    |  |  |
| Alcoholism   | 1(1.6)   | 1(0.84)  | 0.99    |  |  |
| Illness Requiring Systemic Steroid Use               | 11(17.7) | 4(3.4)   | < 0.001 |  |  |
| Fever  | 43(69.4) | 4(3.4)   | < 0.001 |  |  |
| Diabetes Mellitus                                    | 10(16.1) | 12(10.1) | 0.24    |  |  |
| Sleep Apnea  | 7(11.3)  | 13(10.9) | 0.94    |  |  |

6(9.8)

0.090

4(3.4)

Values presented as Mean  $\pm$  SD, or N (column %).

Mouth swelling from an infection or 'tooth ache' in the

p-values based on t-test, Pearson's chi-square test, or Fisher's Exact test.

<sup>\*</sup> Medical and dental history were acquired from both the study participant and their electronic medical record. If one source indicated a positive response and the other source was a negative response, a positive response was used here.

<sup>†</sup>One case patient has a missing value on Social and Dental History. Social History was only self-reported.