







# Intercollegiate Specialty Fellowship Examination

### Part A

## **Oral Medicine**

# **Critical Appraisal**

Note: Parts of the sections within the original article are not relevant to this examination and have been redacted.

Including parts of the abstract, introduction, pages 134, 135 and 136.

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### Intercollegiate Specialty Fellowship Examination in Oral Medicine Part A

### Extract - 26 marks

Jorgensen, M.R. and Pedersen, A.M.L. (2017). Analgesic effect of topical capsaicin gel in burning mouth syndrome. *Acta Odontologica Scandinavica* (2); 130-136. DOI: 10.1080/00016357.2016.1269191.

<u>Analgesic effect of topical oral capsaicin gel in burning mouth syndrome</u> - Result (ku.dk)

1. This is an example of a randomised, double blind, crossover study. Discuss whether the study design was appropriate to answer the research question, providing your rationale. (4 marks)

2.

- a) Define the term null hypothesis (1 mark)
- b) What would be an appropriate null hypothesis for this study? (2 marks)

(3 marks total)

- 3. Discuss the adequacy of the inclusion and exclusion criteria for the study. Give your reasoning. (4 marks)
- 4. The authors use computer-generated randomisation allocation. What other methods of randomisation could have been used? (3 marks)
- 5. Suggest two additional investigations which could have been included as part of the clinical assessment. (2 marks)
- 6. The authors set alpha at 0.05 and beta at 0.8. What do these terms mean? (2 marks)
- 7. Provide four comments on the results as presented in the paper. (4 marks)
- 8. Suggest four ways in which the study design can be improved.

  (4 marks)

**Total Marks for Extract = 26**