

Prevalence of temporomandibular joint disorder in subjects with and without headache

Marc Ruhe BSc. PT

Academic Year: 2010-2011

Supervisor:
MSc (APD)

J Cook BSc, Dip HE(Phys Ed), BSc (Chiro), DC,

Word Count 7800

Table of Contents

1. Introduction.....	1
1.1 Anatomy of the temporomandibular joint.....	1
1.1.1 The joint.....	1
1.1.2 The teeth.....	2
1.1.3 The disc.....	3
1.1.4 Vascular supply.....	4
1.1.5 Ligaments.....	4
1.1.6 Muscles.....	5
1.1.7 Innervation.....	6
1.2 Biomechanics of the temporomandibular joint.....	8
1.3 Function of the temporomandibular joint.....	9
1.4 Temporomandibular disorder.....	10
1.5 Types of headaches.....	12
1.6 Link between TMD and headache.....	16
1.7 Treatment of temporomandibular dysfunction.....	18
2. Methods.....	21
3. Results.....	22
3.1. Basic results.....	22
3.2. Analysed and adjusted results.....	25
4. Discussion.....	27
5. Conclusion.....	31
6. References.....	32
7. Appendices.....	35
7.1 Door sign.....	35
7.2 Information sheet.....	35
7.3 Consent form.....	37

Table of Figures:

Figure 1: Proportion of subjects with and without headache.....23

Figure 2: Results of the six examinations.....23

Table of Graphs:

Graph 1: Correlation TMDScore - ID.....25

Table of Pictures:

Picture 1: The non-contractile tissues of the TMJ - region (Primal Pictures 2010).....1

Picture 2: Internal view of the TMJ with the zygomatic arch removed (Netter 2006)... 3

Picture 3: Record of gape: 8.4 cm! (Ebrary Inc. 2005).....24