

## **Systematic review**

### **Social and psychological factors in orofacial pain**

#### **Abstract**

Orofacial pain impacts social and psychological wellbeing of individuals, needless to say that these factors should be considered when developing management strategies.

This review aims to explore social and psychological factors in this patient cohort.

#### **Research question**

How chronic orofacial pain impacts psycho-social functioning of an individual?

#### **Introduction**

Pain perception encompasses both sensory and emotional components as recognised by the International Association for the study of pain. It takes over almost all aspects of an individual's life, negatively influencing its quality, disrupting social activities and day to day functioning (Jamison and Edwards, 2012). Persistent pain for more than three months is identified as chronic (Elias et al., 2014). Individuals with lasting pain mostly present with comorbid problems of anxiety, depression, and increased irritability with reduced level of energy. This also brings financial strains and disturbed family functioning (Chapman et al., 1996; Ohman et al., 2003).

Orofacial pain occurs commonly. An estimate depicts its prevalence nearly 17% - 26%, out of this percentage the chronic pain is almost 7% - 11% (Benoliel and Sharav, 2010).

Evidence suggest that chronic orofacial pain is linked to psychological disorders. In a study conducted by (Kight et al., 1999), anxiety disorder is identified in 31% of individuals with orofacial pain (Carlson, 2007).

#### **Search strategy**

Key words:

Key words used are psychosocial, psychological, depression, psychiatric comorbidity, post-traumatic stress disorder (PTSD) and anxiety disorder. These with each conditions such as orofacial pain, temporomandibular joint pain/disorder, trigeminal neuralgia, trigeminal nerve injury and burning mouth, persistent dento-alveolar pain, atypical facial pain and atypical odontalgia.

A comprehensive computer based search was carried out on PUBMED, OVID and Google scholar from 2006 to 2016. A total of 20568 articles were generated. Out of these 59 were selected for the review.

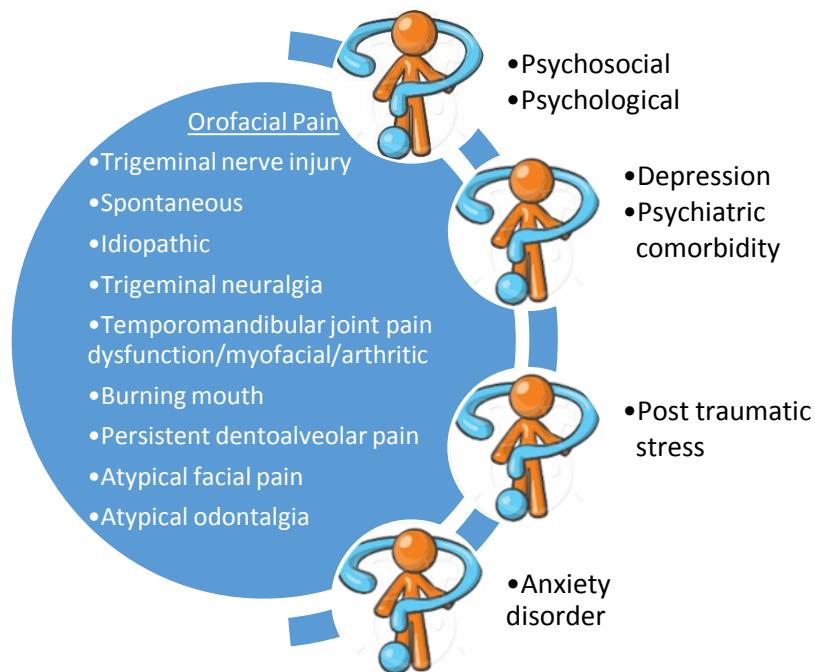


Fig. 1

Search strategy **PUBMED**

- |    |   |     |
|----|---|-----|
| 1. | Psychosocial and orofacial pain                         | 158 |
| 2. | Psychosocial and temporomandibular joint pain/disorder  | 126 |
| 3. | Psychosocial and trigeminal neuralgia                   | 3   |
| 4. | Psychosocial and trigeminal nerve injury                | 1   |
| 5. | Psychosocial and burning mouth syndrome                 | 8   |
|    |   |     |
| 1. | Psychological and orofacial pain                        | 349 |
| 2. | Psychological and temporomandibular joint pain/disorder | 196 |
| 3. | Psychological and trigeminal neuralgia                  | 21  |
| 4. | Psychological and trigeminal nerve injury               | 20  |
| 5. | Psychological and burning mouth syndrome                | 64  |
|    |   |     |
| 1. | Depression and orofacial pain                           | 217 |
| 2. | Depression and temporomandibular joint pain/disorder    | 155 |

3.	Depression and trigeminal neuralgia	37
4.	Depression and trigeminal nerve injury	5
5.	Depression and burning mouth syndrome	66
1.	Psychiatric comorbidity and orofacial pain	8
2.	Psychiatric comorbidity and temporomandibular joint pain/disorder	9
3.	Psychiatric comorbidity and trigeminal neuralgia	0
4.	Psychiatric comorbidity and trigeminal nerve injury	0
5.	Psychiatric comorbidity and burning mouth syndrome	4
1.	Post-traumatic stress disorder and orofacial pain	16
2.	Post-traumatic stress disorder and temporomandibular joint pain/disorder	10
3.	Post-traumatic stress disorder and trigeminal neuralgia	2
4.	Post-traumatic stress disorder and trigeminal nerve injury	2
5.	Post-traumatic stress disorder and burning mouth syndrome	0
1.	Anxiety disorder and orofacial pain	107
2.	Anxiety disorder and temporomandibular joint pain/disorder	76
3.	Anxiety and PDAP	8
4.	Depression and PDAP	10
5.	Post-traumatic stress and PDAP	4
6.	Anxiety and depression, post-traumatic stress and atypical odontalgia	14
7.	Atypical facial pain and post-traumatic stress, anxiety and depression	167

## OVID

Psychosocial and orofacial pain	61
Psychosocial and temporomandibular joint pain/disorder	7
Psychosocial and trigeminal nerve injury	1
Psychosocial and burning mouth syndrome	23
Psychological and orofacial pain	177

Psychological and temporomandibular joint pain	28
Psychological and trigeminal neuralgia	61
Psychological and trigeminal nerve injury	2
Psychological and burning mouth syndrome	138
Depression and orofacial pain	93
Depression and temporomandibular joint pain/disorder	11
Depression and trigeminal neuralgia	89
Depression and trigeminal nerve injury	1
Depression and burning mouth syndrome	1
Psychiatric comorbidity and orofacial pain	0
Psychiatric comorbidity and temporomandibular joint pain/disorder	0
Psychiatric comorbidity and trigeminal neuralgia	0
Psychiatric comorbidity and trigeminal nerve injury	0
Psychiatric comorbidity and burning mouth syndrome	2
Post-traumatic stress disorder and orofacial pain	4
Post-traumatic stress disorder and temporomandibular joint pain/disorder	2
Post-traumatic stress disorder and trigeminal neuralgia	0
Post-traumatic stress disorder and trigeminal nerve injury	0
Post-traumatic stress disorder and burning mouth syndrome	0
Anxiety disorder and orofacial pain	0
Anxiety disorder and temporomandibular joint pain/disorder	1
Anxiety and PDAP	2
Depression and PDAP	2
Post-traumatic stress and PDAP	0
Anxiety and depression, post-traumatic stress and atypical odontalgia	0
Atypical facial pain and post-traumatic stress, anxiety and depression	0

**Selection criteria of paper population:**

Adult 18 and above with orofacial pain

**Study Type**

For this review observational population based studies are included. These are the cross sectional, case series, and prospective and retrospective cohort studies.

**Inclusion Criteria**

The studies which has at least one type of orofacial pain condition and exploring psychological factors such as anxiety, depression, stress, agitation time off work (reduced productivity), family functioning and social interaction disturbances were included.

**Exclusion Criteria**

Studies on children were excluded and also studies exploring dental and periodontal inflammatory conditions and their psychosocial impacts or influences were also excluded from the review.

**Bibliography**

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