

Project Narrative: Approximately 5-10% of the US population will seek care for painful temporomandibular muscle and joint disorders (TMJD) in their lifetime. General dentists are typically the first health care providers to see TMJD pain patients. However, there is no consensus regarding initial treatment for these problems. As a result care varies from home-based self-care instruction with or without medications to use of mouth guards and other treatments. TMJD embraces a number of pains that involve the masticatory muscles, the temporomandibular joint or both.

The objective of this survey is to learn more about your experience treating patients with TMJD pain. This survey will ask you questions about how you diagnose TMJD pain and what initial treatment(s) you provide for your TMJD pain patients. You do not need to review your charts to answer any of the questions. The survey results will be used to assess the feasibility of doing a randomized clinical trial in the dental Practice-Based Research Networks (PBRNs) to determine the best initial treatment for your patients with TMJD pain. The information you provide will be kept confidential.

Survey

1. Do you believe that doing a study to determine the best initial treatment for your patients with TMJD (temporomandibular muscle and joint disorders) pain would be an important question to study in the PBRNs?

Yes

No

2. Do you believe that this study to determine the best initial treatment for your patients with TMJD pain should be limited to patients with

Yes No

a) Acute pain (less than 6 months)

b) Chronic pain (6 months or more)

c) Currently no pain but history of pain

3. What would motivate you to be in this study? (*check all that apply*)

Give back to the profession

Help to generate evidence

Receive monetary payment for your time

Other(s) (*please specify*)

4. From your day to day experience, what do you think is the most important thing you need to know about TMJD pain?

5. What frustrates you the most when you see a patient with TMJD pain?

6. In the last year, did you refer or treat any TMJD pain patients?

	Yes	No
Refer:	<input type="checkbox"/>	<input type="checkbox"/>
Treat:	<input type="checkbox"/>	<input type="checkbox"/>

If you selected **no to both**, then you are done: **Thank you!**

If you answered **yes** please **continue**.

a. If **Refer** is **yes**:

i. In the last month, estimate the number of TMJD pain patients you referred? ____

ii. In the last year, on average, estimate the number of TMJD pain patients you have referred per month? ____

If you only **refer** TMJD pain patients, then you are done: **Thank you!**

If you **treat** TMJD pain patients, please **continue**.

b. If **Treat** is **yes**:

i. In the last month, estimate the number of TMJD pain patients you treated? ____

ii. In the last year, on average, estimate the number of TMJD pain patients you have treated per month? ____

7. How do you diagnose TMJD pain (*check all that apply*)?

	Yes	No
By asking specific questions	<input type="checkbox"/>	<input type="checkbox"/>
By physical examination	<input type="checkbox"/>	<input type="checkbox"/>

8. If you diagnose TMJD pain with **questions**, please indicate the frequency you use each of these questions:

Questions	Never	Sometimes	Half of time	Usually	Always
Do you have pain in your temples, face, jaw joint, or jaws?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Do you have pain when you open your mouth wide?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Do you have pain when you chew?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Do you have pain when you are clenching or grinding your teeth?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Other (please specify):	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

9. If you diagnose TMJD pain with **physical examination**, please indicate the frequency you use each of these exams:

Physical examination	Never	Sometimes	Half of time	Usually	Always
Palpation of jaw muscles	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Palpation of TMJ	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Examining for limited range of motion	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Presence of pain with range of motion of the jaw	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
TMJ noises	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Other (please specify):	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

10. In a study of TMJD pain in your practice, would you be willing to use only the following two questions* to identify patients with TMJD pain?

Do you have pain in your temples, face, temporomandibular joint (TMJ), or jaws once a week or more?

Do you have pain when you open your mouth wide or chew once a week or more?

Yes

No

*These are valid and reliable questions used in diagnosing TMJD pain (Nilsson et al., The reliability and validity of self-reported temporomandibular disorder, pain in adolescents. J Orofac Pain 2006;20(2):138-44).

11. *Indicate* what percent of your patients with TMJD pain have experienced TMJD pain for:

Less than 6 months	_____
6 months or more	_____
	100%
I do not know	<input type="checkbox"/>

12. *Indicate* what percent of your patients with TMJD pain have reported the following levels of TMJD pain from mild (1) to severe pain (10):

1-3	_____
4-6	_____
7-10	_____
	100%
I do not know	<input type="checkbox"/>

13. How often do your TMJD pain patients report the following symptom(s)?

Symptoms	Never	Sometimes	Half of		
			time	Usually	Always
Jaw pain	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Facial pain	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Earache	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Headache	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Problem with opening or closing the mouth	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Catching or locking of the jaw	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
TMJ noises	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Other (<i>please specify</i>):	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

14. What treatment(s) do you use for TMJD pain? (*check all that apply*)

Treatment

- Splint/mouth guard
- Over the counter or prescription medications
- Self-care (*it includes but is not limited to home based use of heat, ice, soft diet – see options in question 17*)
- Jaw exercises (e.g. stretching exercises)
- Occlusal adjustment
- Referral to physical therapist
- Other (*please specify*): _____

15. How often do you use the following splints/mouthguards for treating TMJD pain?

Splint	Half of				
	Never	Sometimes	time	Usually	Always
Hard custom mouthguard (i.e., Stabilization splint/occlusal splint)	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Soft custom mouthguard	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Soft over the counter mouthguard	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Anterior repositioning splint	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Nociceptive Trigeminal Inhibition appliance (NTI)	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Other (<i>please specify</i>): _____	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

16. How often do you use the following medications for treating TMJD pain?

Medications	Half of				
	Never	Sometimes	time	Usually	Always
Over the counter acetaminophen	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Over the counter aspirin	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Over the counter ibuprofen	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Over the counter naprosyn	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Prescription aspirin	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Prescription ibuprofen	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Prescription naprosyn	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Other nonsteroidal anti-inflammatory medication(s) (NSAID) you recommend or prescribe (<i>please specify</i>): _____	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

Low dose tricyclic antidepressants	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Muscle relaxant	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Tramadol (Ultram)	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Other opioids	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Other (<i>please specify</i>):	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

If you prescribe NSAID(s), please check one or two NSAID(s) you prefer to prescribe:

None	<input type="checkbox"/>
Ibuprofen	<input type="checkbox"/>
Naprosyn	<input type="checkbox"/>
Aspirin	<input type="checkbox"/>
Other (<i>please specify</i>): _____	<input type="checkbox"/>

If you prescribe muscle relaxants, check one or two of the muscle relaxant(s) that you prefer to prescribe:

None	<input type="checkbox"/>
Orphenadrine (Norflex®)	<input type="checkbox"/>
Methocarbamol (Robaxin®)	<input type="checkbox"/>
Metaxalone (Skelantin®)	<input type="checkbox"/>
Cyclobenzaprine (Flexeril®)	<input type="checkbox"/>
Diazepam (Valium®)	<input type="checkbox"/>
Clonazepam (Klonopin®)	<input type="checkbox"/>
Other (<i>please specify</i>): _____	

17. How often do you recommend the following self-care for TMJD pain?

Treatment	Never	Sometimes	Half of time	Usually	Always
Application of heat	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Application of ice	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Eat a pain-free diet	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Eat a soft diet	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Chew food on both sides of your back teeth at the same time	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Keep your tongue up gently on your palate	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Keep your teeth apart	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

Relax your jaw (muscles)	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Avoid chewing gum	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Avoid clenching or grinding your teeth	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Avoid biting on objects such as pens	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Avoid biting on your tongue, lips or cheeks	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Avoid biting on your fingernails	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Avoid pushing your tongue against your teeth	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Avoid caffeine	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Get a good night's sleep	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Identify events that trigger the pain	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Other (<i>please specify</i>):	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

18. Which **initial treatment(s)** do you **prefer** to provide for TMJD pain? (*check all that apply*)

- Self-care (listed on question 17)
- Jaw exercises (e.g. stretching exercises)
- Jaw massage
- Over the counter medications
- Prescription medications
- Splints/mouthguards (any type)
- Other (*please specify*): _____
- No preference

19. If you are invited to participate in a randomized controlled trial (**RCT**) to assess the best **initial treatment** for TMJD pain, would you be willing to participate?

- Yes
- No

If **yes**, skip to question #21.

20. If **no**, then please answer these questions:

a) Why would you not be willing to participate?

b) Describe the conditions, if any, that would need to exist for you to participate?

21. If **yes**, would you be willing to assign your patients to (*check all that apply*):

	Yes	No
a. Different treatments?	<input type="checkbox"/>	<input type="checkbox"/>
b. Placebo group (inactive pill)?	<input type="checkbox"/>	<input type="checkbox"/>
c. "No treatment" group?	<input type="checkbox"/>	<input type="checkbox"/>

22. **Select two initial treatments** for TMJD pain that you would like to test in the RCT:

- Self-care without exercise
- Jaw exercises (e.g. stretching exercises)
- Jaw massage
- Prescription medications
- Over the counter medications
- Splint/mouth guard
- Other (*please specify*):

23. Why did you select those 2 treatments in question 22? (*check all that apply*)

	Choice #1	Choice #2
Indicate the treatment:	_____	_____
Reason		
Best to reduce pain	<input type="checkbox"/>	<input type="checkbox"/>
Patient compliance	<input type="checkbox"/>	<input type="checkbox"/>
Cost	<input type="checkbox"/>	<input type="checkbox"/>
Ease of application	<input type="checkbox"/>	<input type="checkbox"/>
Patient preference	<input type="checkbox"/>	<input type="checkbox"/>
Other (<i>please specify</i>):	<input type="checkbox"/>	<input type="checkbox"/>

24. Indicate if you have already used the selected treatments in question 22 (*check all that apply*)

	Choice #1	Choice #2
Indicate the treatment:	_____	_____
Yes	<input type="checkbox"/>	<input type="checkbox"/>
No	<input type="checkbox"/>	<input type="checkbox"/>

25. When treating TMJD pain patients, do you encounter any difficulty(ies) when providing any of the two treatments in question 22?

Yes

No

If no, skip to the Practitioner Demographics questions.

26. *If yes, please indicate* the difficulty(ies) you encounter in using each treatment selected in question 22: (*check all that apply*)

	Choice #1	Choice #2
Indicate the treatment:	_____	_____
Reason		
Cost	<input type="checkbox"/>	<input type="checkbox"/>
Lack of experience	<input type="checkbox"/>	<input type="checkbox"/>
Lack of knowledge	<input type="checkbox"/>	<input type="checkbox"/>
Availability	<input type="checkbox"/>	<input type="checkbox"/>
Time consuming	<input type="checkbox"/>	<input type="checkbox"/>
Short-term efficacy	<input type="checkbox"/>	<input type="checkbox"/>
Other (<i>please specify</i>):	<input type="checkbox"/>	<input type="checkbox"/>

27. When treating TMJD pain patients do you believe your patients will have any difficulty(ies) accepting or complying with the two initial treatments selected in question 22?

Yes

No

If no, skip to the Practitioner Demographics questions.

28. If **yes**, please indicate any difficulty(ies) that you believe your patients might have regarding each treatment selected in question 22: (*check all that apply*)

Indicate the treatment:	Choice #1	Choice #2
Concerns		
Cost	<input type="checkbox"/>	<input type="checkbox"/>
Side effects	<input type="checkbox"/>	<input type="checkbox"/>
Patient non-compliance	<input type="checkbox"/>	<input type="checkbox"/>
Difficult to use	<input type="checkbox"/>	<input type="checkbox"/>
Other (<i>please specify</i>):	<input type="checkbox"/>	<input type="checkbox"/>

Practitioner Demographics

Date of birth	Mm/yyyy	
Gender	Male	<input type="checkbox"/>
	Female	<input type="checkbox"/>
Race	American Indian/Alaska Native	<input type="checkbox"/>
	Asian	<input type="checkbox"/>
	Black/African American	<input type="checkbox"/>
	Native Hawaiian/Pacific Islander	<input type="checkbox"/>
	White	<input type="checkbox"/>
	Other	<input type="checkbox"/>
	Not reported	<input type="checkbox"/>
Ethnicity	Hispanic or Latino	<input type="checkbox"/>
	Not Hispanic or Latino	<input type="checkbox"/>
	Unknown	<input type="checkbox"/>
	Not reported	<input type="checkbox"/>
For how many years have you practiced dentistry?	5 or fewer	<input type="checkbox"/>
	6-10	<input type="checkbox"/>
	11-15	<input type="checkbox"/>
	16-20	<input type="checkbox"/>
	21-25	<input type="checkbox"/>
	26+	<input type="checkbox"/>
Specialty	None	<input type="checkbox"/>
	Orthodontics	<input type="checkbox"/>
	Endodontics	<input type="checkbox"/>
	Pediatrics	<input type="checkbox"/>
	Periodontics	<input type="checkbox"/>
	Prosthodontics	<input type="checkbox"/>
	Oral Surgery	<input type="checkbox"/>
	Oral Medicine	<input type="checkbox"/>
	Oral Radiology	<input type="checkbox"/>
	Other	<input type="checkbox"/>

Thank you - Your time and expertise are appreciated.