Evidence Based Dentistry Rounds Oral Medicine/Pharmacology Group 9A-5 9/23/2020

Rounds Team

- Group Leader: Dr. Derderian
- Specialty Leader: Dr. Khaled
- Project Team Leader: Sahar Edalatpour
- Project Team Participants: Francesca
 Malensek, Jack Hayes, Austin Czarnecki

Patient

- 27 y.o. female
- Caucasian
- CC: "My left side has been hurting and swollen ever since my appointment last Tuesday"
 - On the following Monday

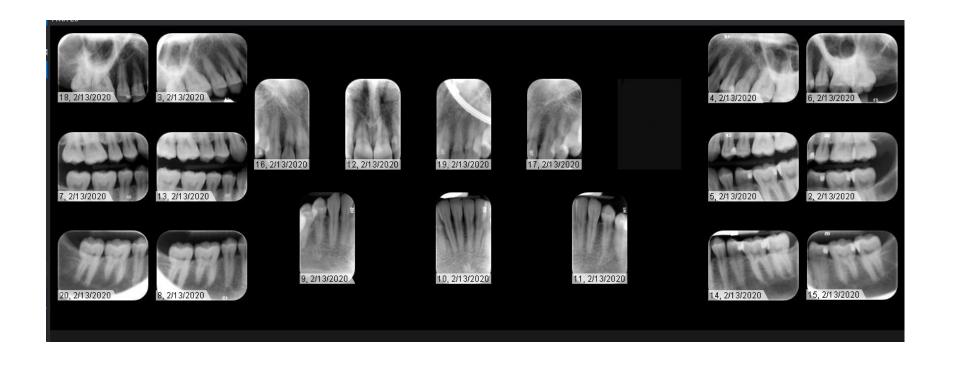
Medical History

- Allergies: Amoxicillin
- Medications: None
- CRPS Complex Regional Pain Syndrome
 - Secondary to ankle injury

Dental History

- No significant dental history
- Pt reports brushing twice a day and flossing occasionally

Radiographs



Radiographs





Radiographs



Clinical Findings

- **7/28/20**
 - Pt presents for tx plan presentation, prophy and resin restoration of #15-O
- 7/31/20 Consult in OS
 - Pt reports pain and swelling immediately following 7/28 apt
 - S:
 - Pain felt with palpation of left maxillary buccal vestibule, pain and swelling are slowly improving
 - Pain scale 6/10 on Tuesday, 5/10 today
 - Pt states mother has history of jaw problems
 - O
 - Swelling of left buccal space
 - No signs of infection
 - Scalloping on lateral tongue bilaterally
 - Very tender at origins of masseter muscle (beneath zygoma and insertion at mandible)
 - Extraoral ecchymosis of lower left cheek
 - A: Masseteric muscle spasm suggestive of TMD
 - P: 1 or 2 Naproxen every 12 hours until pain and swelling subside, soft food diet, warm compresses

Clinical Findings Cont

- 8/03/20 Follow-up in OS
 - CC: "My left side is feeling a little better but still hurts, is swollen and I can't open my mouth very wide"
 - Pt has been taking Naproxen, which has relieved some of the pain
 - Warm compresses done 2-3x/day, seems to help
 - Extraoral ecchymosis and swelling still present
 - Limited mouth opening of 10mm
 - Oral surgeon recommends consult with Dr. Khaled

Clinical Findings Cont

- 8/31/20 Consult with Dr. Khaled
 - Pt is still taking Naproxen PRN, swelling has improved
 - Limited mouth opening of 10-15mm
 - Dx: Anterior disc displacement of the left side, mild capsulitis of the left side, moderate masticatory myalgia of the left masseter, mild masticatory myalgia of the bilateral SCM and trapezius muscles
 - Rx: Cyclobenzaprine 10mg 1x/day, Naproxen 500mg
 BID for 3 weeks
 - Occlusal splint recommended
 - Trigger point injections done on masseter bilaterally, left SCM and trapezius muscles

Clinical Findings Cont

- 9/14/20 Follow-up with Dr. Khaled
 - Pt reports that symptoms got worse after TPI
 - Limited mouth opening of 5mm
 - Pain scale:
 - Right masseter 5/10
 - Left masseter 7/10
 - Left occipital muscle 6/10
 - Left SCM 3/10
 - Dx: Severe muscle spasm of left masseter and severe capsulitis of left TMJ
 - Rx: Medrol dose pack for 6 days
 - Methylprednisolone 4mg
 - TPI done on left masseter and left capsule

Clinical Photos

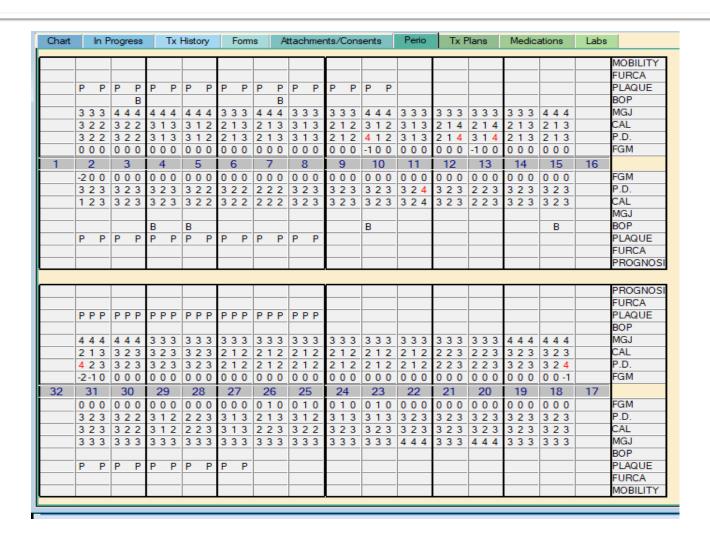


Trigger Point Injections





Periodontal Charting

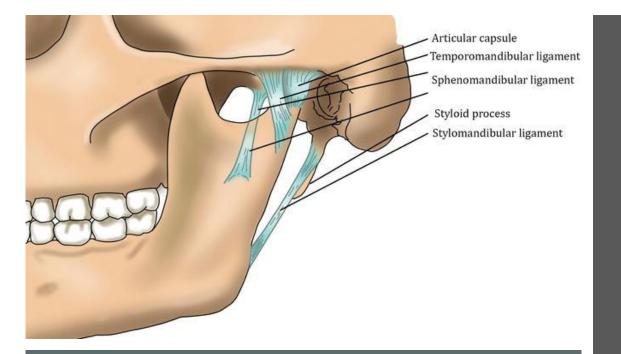


Diagnosis

 Severe muscle spasm of left masseter with severe capsulitis of the left TMJ

Problem List

- Caries
- Bruxism

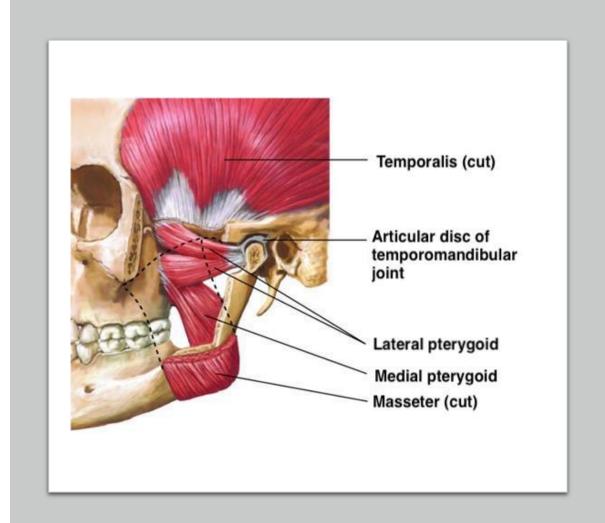


Ligaments of the TMJ

- Temporomanidbular (lateral) ligament
- Sphenomandibular ligament
- Stylomandibular Ligament
- Pterygomandibular Ligament
- Pinto or malleolomandibular Ligament
- Temporomandibular Ligament

Muscles of the TMJ

- Temporalis
- Masseter
- Lateral Pterygoid
- Medial Pterygoid



D2 – Pathology

- What are the signs and symptoms of TMD?
 - Pain occurs during mandibular movement or palpation
 - Myogenic: disorders of muscles of mastication, most common
 - Articular: joint disorders, derangement of condyle-disc complex, structural incompatibility with articular surfaces, inflammatory disorders of TMJ
 - Joint sounds
 - Clicking: uncoordinated movements of condylar head and articular disc
 - Crepitations: rough and irregular articular surfaces of TMJ
 - Restriction of mandibular movement
 - Muscular restriction, disc displacement, or ligament restriction
 - Condyle can become displaced from fossa unable to close mouth

D2 – Pathology

- Other signs/symptoms
 - Dental symptoms
 - Tooth wear, mobility, pulpitis
 - Otologic symptoms
 - Auricular pain, tinnitus, itching in ear, vertigo
 - Headaches/migraines
 - Muscle pain in temporal region

D₃ PICO

Clinical Question:

PICO Format

P:

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C:

O:

PICO Formatted Question

Clinical Bottom Line

Search Background

- Date(s) of Search:
- Database(s) Used:
- Search Strategy/Keywords:

Search Background

MESH terms used:

Article 1 Citation, Introduction

Citation: Authors, Title, Journal, Date,
 Volume, Page Numbers.

- Study Design:
- Study Need / Purpose:

Article 1 Synopsis

- 1-2 slides
- Method
- Results
- Conclusions
- Limitations

Article 1 Selection

- 1 slide
- Reason for selection
- Applicability to your patient
- Implications

Article 2 Citation, Introduction

Citation: Authors, Title, Journal, Date,
 Volume, Page Numbers.

- Study Design:
- Study Need / Purpose:

Article 2 Synopsis

- 1-2 slides
- Method
- Results
- Conclusions
- Limitations

Article 2 Selection

- 1 slide
- Reason for selection
- Applicability to your patient
- Implications

Levels of Evidence

Strength of Recommendation Taxonomy (SORT)

	A - Consistent, good quality patient
	oriented evidence
	B – Inconsistent or limited quality patient
	oriented evidence
	C – Consensus, disease oriented evidence,
	usual practice, expert opinion, or case
	series for studies of diagnosis, treatment,
	prevention, or screening

Double click table to activate check-boxes

Conclusions: D3

How does the evidence apply to this patient?

- Consider/weigh:
 - Literature
 - Group Leader & Specialist experience
 - Patient circumstances & preferences

Based on the above considerations, how will you advise your D4?

Conclusions: D4

Based on your D3's bottom line recommendations, how will you *advise* your patient?

How will you *help* your patient?

Thank you!

