

Pernicious Peri-Implantitis

Evidence Based Dentistry Rounds Periodontics

Group 5A-1

Ashley Chen, Parker Johnson, Indre Geneviciute, Will Dummer

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Rounds Team

- **Group Leader: Dr. Dix**
- **Specialty Leader: Dr. Kassab**
- **Project Team Leader: Ashley Chen**
- **Project Team Participants: Will Dummer;
Indre Geneviciute; Parker Johnson**

Patient

- 70 year-old
- Female
- Caucasian
- “I want to finish my implant treatment.”
- [Additional pertinent information]

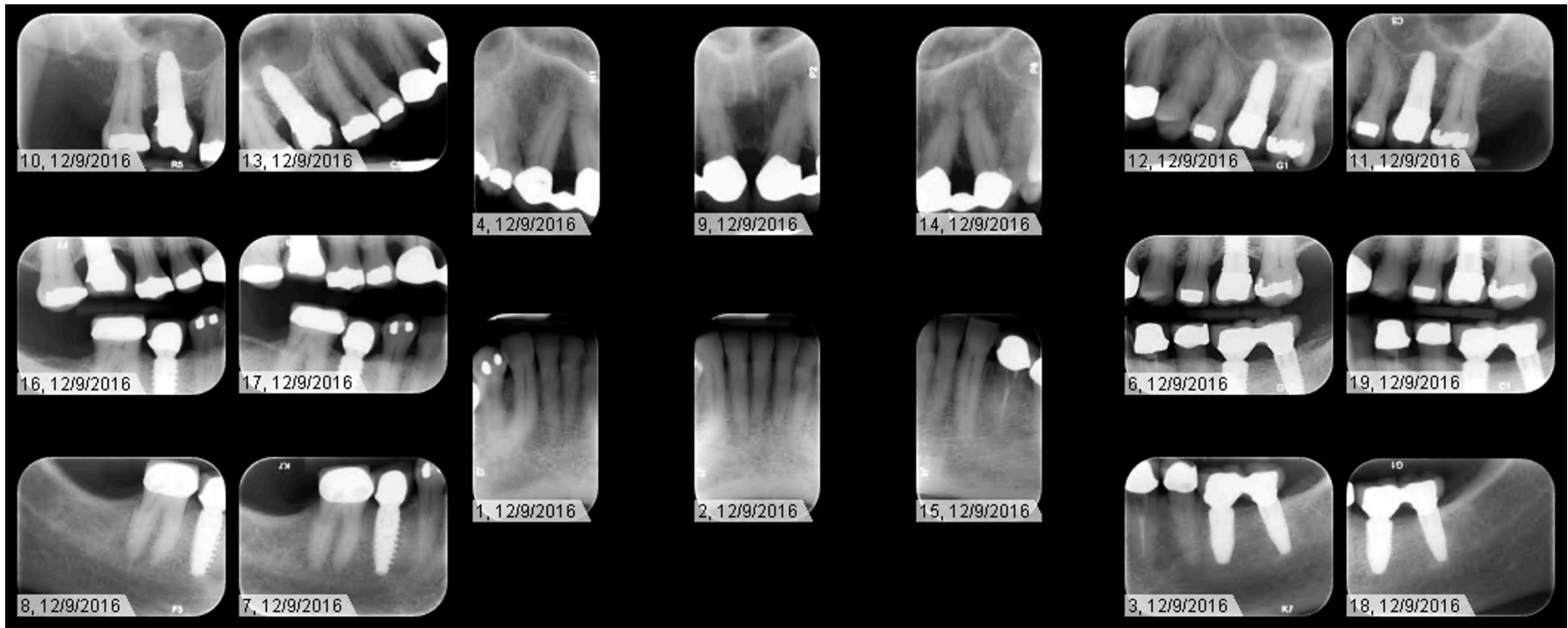
Medical History

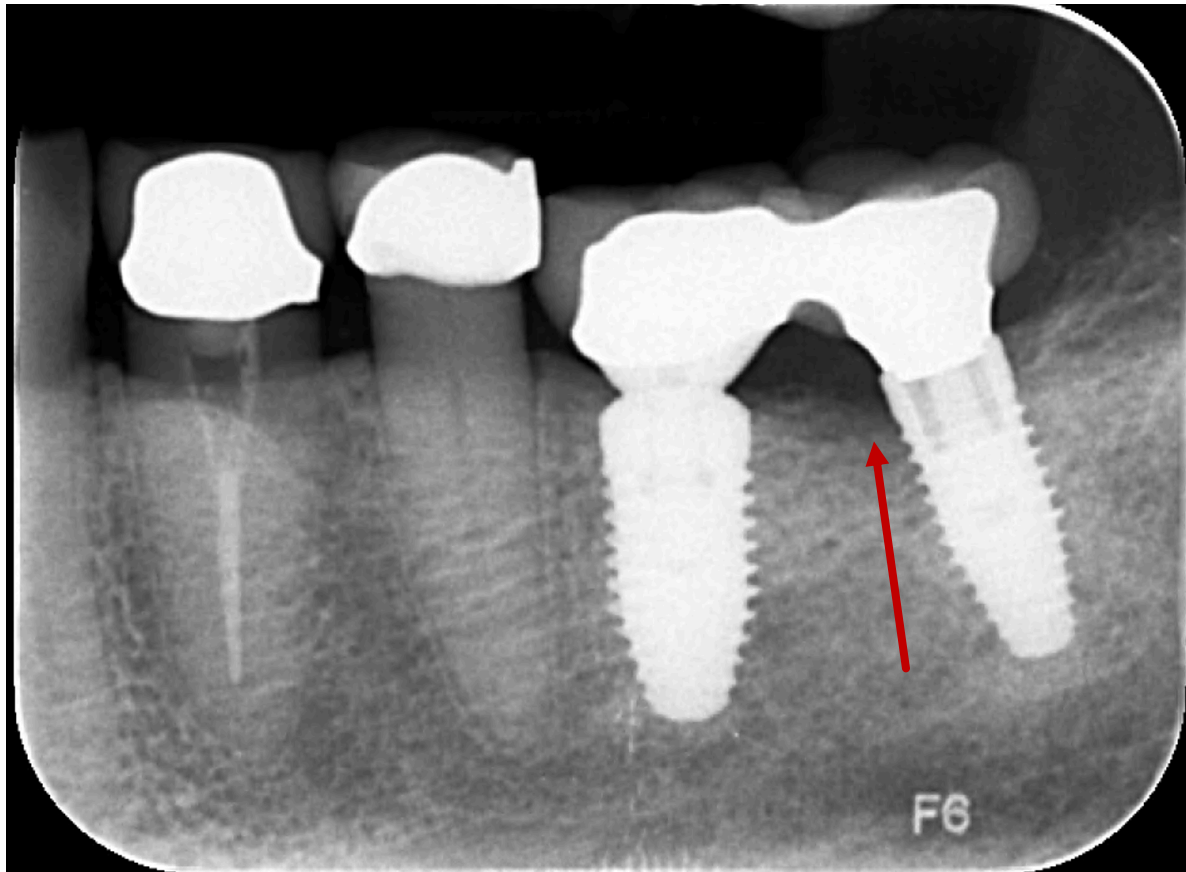
- Current & past:
 - Diagnoses:
 - Conditions: Asthma, hypothyroidism, cholesteremia, osteoarthritis,
 - Medications: Zyrtec (Cetirizine), Singulair (Montelukast), Levothyroxine, Lipitor (atorvastatin), Acetaminophen-Codeine, Clonazepam
 - Treatment considerations

Dental History

- Has been a patient at MUSoD for 4 years.
- #4 implant placement +Vertical sinus lift (2017)
- Four additional implants placed previously
- Two 3-unit bridges
- Several crowns

Radiographs





Radiographic Findings

- Bone loss noted around implant sites #3, #18

Clinical Findings

- Blunted papilla around implant sites
- Slight supragingival and subgingival calculus

Specific Findings

- Exudate present around site #18
- Splinted crowns on #18 and #19

Periodontal Charting

																MOBILITY
	PPP										P	P				FURCA
		B			BBB					B						PLAQUE
	555	444	444	666	777		666	777		777	777		666	666		BOP
	342	436	323	323	423		326	535		324	324		334	322		MGJ
	331	436	323	323	423		326	535		324	312		334	322		CAL
	011	000	000	000	000		000	000		000	012		000	000		P.D.
	000	000	000	000	000		000	000		000	012		000	000		FGM
1	2	3	4	5N	6	7	8	9	10	11	12	13	14	15	16	
	000	001	110	000	000		000	012		100	001		110	000		FGM
	323	455	325	334	423		324	423		222	222		313	322		P.D.
	323	456	435	334	423		324	435		322	223		423	322		CAL
																MGJ
				BBB												BOP
											P	P				PLAQUE
																FURCA
																PROGNOSI
																PROGNOSI
						PPP	PPP	PPP	PPP	PPP	PPP					FURCA
												BBB	B B		BBB	PLAQUE
		555	333	444	333	333	333	333	333	333	333	444	444	555		BOP
		534	344	323	333	332	232	232	232	232	435	334	335	892		MGJ
		323	344	323	323	322	222	222	222	222	434	323	335	9104		CAL
		211	000	000	010	010	010	010	010	010	001	011	000	-1-1-2		P.D.
																FGM
32	31	30	29	28	27	26	25	24	23	22	21	20	19	18	17	
		111	000	000	000	000	000	000	000	000	000	011	000	0-1-2		FGM
		322	233	323	322	223	222	222	223	223	323	324	334	1062		P.D.
		433	233	323	322	223	222	222	223	223	323	335	334	1050		CAL
		444	222	444	444	555	333	333	333	555	444	444	333	444		MGJ
													BBB	BBB		BOP
						PPP	PPP	PPP	PPP	PPP	PPP					PLAQUE
																FURCA
																MOBILITY

Diagnosis

- Peri-implantitis site #18

Problem List

- Swelling lower left
- Missing teeth
- Periodontal disease

D1 Basic Science

- **1-2 slides** (*Summarizes written report in D1 Basic Sciences Template posted in Rounds Website.*)
- **D1 Basic Science Question:**
- **Discussion:**
- **Reference citation(s):**
 - **Scholarly source(s) only**

D2 Pathology

- **1-2 slides** (*Summarizes written report in D2 Pathology Template posted in Rounds Website.*)
- **D2 Pathology Question:**
- **Discussion:**
- **Reference citation(s):**

D₃ PICO

- **Clinical Question:**

PICO Format

P:

I:

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

- ☐ **1a** – Clinical Practice Guideline, Meta-Analysis, Systematic Review of Randomized Control Trials (RCTs)
- ☐ **1b** – Individual RCT
- ☐ **2a** – Systematic Review of Cohort Studies
- ☐ **2b** – Individual Cohort Study
- ☐ **3** – Cross-sectional Studies, Ecologic Studies, “Outcomes” Research
- ☐ **4a** – Systematic Review of Case Control Studies
- ☐ **4b** – Individual Case Control Study
- ☐ **5** – Case Series, Case Reports
- ☐ **6** – Expert Opinion without explicit critical appraisal, Narrative Review
- ☐ **7** – Animal Research
- ☐ **8** – In Vitro Research

Double click table to activate check-boxes

Strength of Recommendation Taxonomy (SORT)

<input type="checkbox"/>	A – Consistent, good quality patient oriented evidence
<input type="checkbox"/>	B – Inconsistent or limited quality patient oriented evidence
<input type="checkbox"/>	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?

Discussion Questions

- 1-2 slides
- List posted discussion questions
- Questions may also be from Group Leader or Specialist

Discussion Questions

THANK YOU
