EVIDENCE BASED DENTISTRY

Conventional Ortho Treatment vs. Invisalign

ROUNDS ORTHODONTICS GROUP 10A-5

NOVEMBER 11/2020

- ▶ Group Leader: Dr. Yray
- Specialty Leader: Dr. Liu
- Project Team Leader: Kate Collelo
- Project Team Participants: Nwadiuto Ekeh, Carneisha Cain, Jacklyn Moon

ROUNDS TEAM

- > 14-year-old female
- Caucasian
- in my front teeth"

PATIENT

- Current & past:
 - Diagnoses
 - Conditions
 - Medications
 - Medical Consults, if any
 - ▶ Treatment considerations

MEDICAL HISTORY

- Previously treated in MUSoD pediatric clinic
- Ortho treatment initiated in June, 2019

DENTAL HISTORY



RADIOGRAPHS





RADIOGRAPHS

- Class I restorations needed on #15 ○, #18 ○
- ➤ Slight distal rotation of #6

RADIOGRAPHIC FINDINGS

- ▶ 1 slide describing all clinical findings
- ➤ Clinical photos 1-2 slides
 - Relevant extraoral &/or intra-oral views
- ▶ Photos of casts 1-2 slides
 - Mounted on articulator
 - Same views as intraoral photos
 - Occlusal maxilla, mandible
 - Open, closed
 - > Anterior, lateral
 - ► In occlusion, excursions
 - Show excursions from posterior to molar view

CLINICAL FINDINGS

- List findings specific to the Rounds discussion, 1 slide
- To enhance viewing, include close-ups of clinical photos, cast photos, radiographs,
 - add slides as needed

SPECIFIC FINDINGS

- Ensure that the periodontal charting is readable.
- Highlight, surround, point to, or **ZOOM IN** on areas of interest.



PERIODONTAL CHARTING

 Class I malocclusion, due to lower anterior crowding

DIAGNOSIS

- ▶ 1 slide
- ► Include graphics as needed

PROBLEM LIST

D1 BASIC SCIENCE QUESTION

How does tooth movement and bone remodeling occur?



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

D2 PATHOLOGY

▶ Clinical Question:

D3 PICO

Template Revised 9/10/2020 **P**:

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PICO FORMAT

PICO FORMATTED QUESTION

Template Revised 9/10/2020

CLINICAL BOTTOM LINE

ZU Template Revised

9/10/2020

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

SEARCH BACKGROUND

▶ MESH terms used:

SEARCH BACKGROUND

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

▶ Study Design:

Study Need / Purpose:

ARTICLE 1 CITATION, INTRODUCTION

- ► 1-2 slides
- Method
- Results
- ▶ Conclusions
- > Limitations

ARTICLE 1 SYNOPSIS

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

ARTICLE 1 SELECTION

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

▶ Study Design:

Study Need / Purpose:

ARTICLE 2 CITATION, INTRODUCTION

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

ARTICLE 2 SYNOPSIS

2/ emplate Revised

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

ARTICLE 2 SELECTION

□ 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

	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

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: D3

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

How will you **help** your patient?

CONCLUSIONS: D4

32 emplate

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

DISCUSSION QUESTIONS

DISCUSSION QUESTIONS

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Template
Revised

9/10/2020