

- **Case Study 1:** Patient has several medical conditions as well as allergies to some medications. Patient given medical clearance form for orthopedic joint replacement to be signed by her physician in order to receive treatment at the clinic.
  - 68 year-old female
  - Patient visited to receive a regular cleaning and reported painful gums caused by her denture.
  - Health history overview
    - Vitals: 132/70 ASA 3
    - Medical conditions:
      - High Blood Pressure
      - Low Vitamin D
      - Diabetes Type 2
      - High Cholesterol
      - Orthopedic Joint Replacement (right knee 2022)
      - Venous Stroke (July 2023)
    - Current medications:
      - Aspirin 80 mg (high blood pressure)
      - Amlodipine 5 mg (high blood pressure)
      - Repaglinide 2 mg (high blood pressure)
      - Atorvastatin 20 mg (high cholesterol)
      - Janumet 50/500 mg (diabetes)
      - OTC Vitamin-D 600 mg (bone health)
    - Dental History:
      - sleeps with 1 or both dentures at night
      - brushes dentures with Biotene toothpaste and a regular toothbrush
      - lost 70% of her dentition due to an accident at the age of 17
      - began wearing partial dentures at 18yrs
      - experiences constant dry mouth
  - Summary of clinical findings:
    - Dental charting: Not determined due to missing teeth
    - Missing teeth: #1-2, #4-11, #13-14, #16-17, #19-21, #29-30 and #32
    - Gingival description/Periodontal status:

- Generalized uniform pink color gingival with localized moderate redness and severe inflammation located on maxillary anterior sextant due to partial dentures. Position of the margin is 1-2 mm coronal to the CEJ. Gingival margin meets the tooth in a tapered edge. Interdental papilla is blunted. Texture of the gingival is stippled and firm.
- Periodontal status: Localized Stage III Grade B.
- Periodontal charting: Generalized 2-3 mm PD and 4-7 mm PD on local posterior areas. Local 1mm recession on anterior teeth.
- Radiographs:
- Dental hygiene diagnosis:
  - Periodontal diagnosis: Localized Stage II Grade B
  - Risk for caries: Moderate due to dry mouth
- Dental hygiene care plan: Radiographs (PAN) were exposed, no pain management needed, patient education on denture fungal infections, full mouth cleaning, polish and 5% Fluoride Varnish.
- Challenges during treatment: Patient was not very receptive to the air syringe upon drying certain areas to visible see calculus because it made the patient's mouth feel dryer.
  - Evaluation of care: Patient received full mouth SRP, homecare instructions, areas of gingival inflammation due to dentures significantly reduced.
  - Continued care recommendations: Patient instructed to return every 3-4 months. Recommended patient to follow denture homecare i.e. Polident solution. Recommended patient to rinse at home with saline water 2x/day on affected gum area and to limit denture wear at home to avoid the fungal infection and lastly, recommended OTC "XyliMelts" for dry mouth as needed .

- Radiographs: Exposed digital radiographs (PAN) at 7mA and 70kV on 4/12/2024. The following findings were observed, localized supragingival calculus found interproximally on mandibular anterior teeth. No caries observed. Localized 30% HBL on mandibular anterior teeth.

