RESOURCES

• HIVDent.org
  • Dr. David Reznik

• HRSA/HAB “Guide to Oral Health Care for People Living with HIV/AIDS”
  • https://careacttarget.org

• Evaluation Center for HIV & Oral Health (ECHO)
  • http://echo.hdwg.org/

• Mountain Plains AIDS Education and Training Center
MARICOPA INTEGRATED HEALTH SYSTEM

• MIHS: McDowell Healthcare Center
  • HIV Specialty Clinic
  • 1 in 5 PLWHA in Arizona
  • 1 in 4 PLWHA in Maricopa County
HIV AND ORAL HEALTH

• Importance of Oral Health in patients living with HIV/AIDS (PLWHA)
• Differences in treatment
• Oral Manifestations of HIV
• Importance of Communication between Medical and Dental teams
ORAL HEALTH CARE FOR PLWHA

• “While good oral health is important to the well-being of all population groups, it is especially critical for PLWHA. Inadequate oral health care can undermine HIV treatment and diminish quality of life, yet many individuals living with HIV are not receiving the necessary oral health care that would optimize their treatment.”

  - Dr. Regina Benjamin, Surgeon General
  
“Due to the already compromised immune system of PLWHA, lack of access to oral health care may affect the systemic health of these individuals”

- Dr. Regina Benjamin, Surgeon General
DIFFERENCES IN TREATMENT

• “Evidence based research has proven that providing dental care for the vast majority of people living with HIV/AIDS is no different than providing care for the general patient population.”

   Evidence Report/Technology Assessment No 37.

   Management of Dental Patients who are HIV Positive (AHRQ Publication No. 01-E042)

- 331 patients (average CD4 count 71 cells/mm³) 1,800 invasive dental procedures (defined as breaking the mucosal membrane) were performed.

- RESULTS: The number of post-procedural complications was only 17, representing an overall complication rate of 0.9%

- CONCLUSIONS: Incidence of post-operative complications is no greater than in other populations.
MEDICAL CONSIDERATIONS IN ORAL HEALTH CARE FOR PLWHA

• Lab Values/CBC
  • CD4 count
  • Viral Load
  • Absolute Neutrophil Count
  • Platelets
• Co-infection
• Bleeding/Hematological Disorders
• Diabetes
• Motor Function/Neuropathies
• Mental/Psychiatric Status – HIV Dementia, Depression, etc.
ORAL MANIFESTATIONS OF HIV/AIDS

• What do they mean?
  • “Oral manifestations of HIV infection are a fundamental component of disease progression…”
    - David Reznik, DDS
  - Prevalence?
    - Estimated 32-46% of PLWHA have oral complications of the disease
• “Oral manifestations of HIV infection are a fundamental component of disease progression”
• Oral lesions may signal a progression of disease or a failure in therapy.
• No lesions diagnostic for HIV/AIDS, though many are suggestive.
ORAL MANIFESTATIONS

- Fungal
- Bacterial
- Neoplasms
- Viral
ANGULAR CHELITIS

- Cracking or Fissuring at the corner of the mouth
- Fungal
- Treat topically
  - Ketoconazole 2% cream: Dispense 30g, apply to affected area 4 times daily for 2 weeks
ERYTHEMATOUS CANDIDIASIS

- Fungal
- Red, flat, subtle
- Dorsal surface of the tongue or hard/soft palate.
- Complaints of burning or sensitivity
- Treat topically
  - Clotrimazole troches 10mg: Dispense 70, dissolve one troche in mouth 5 times daily for 2 week
  - Nystatin oral suspension: Dispense 500,000 units. Swish one teaspoonful in mouth for 5 minutes, 4 times daily for 2 weeks
PSEUDOMEMBRANOUS CANDIDIASIS

- Fungal
- White, off-white or yellow patches
- Can appear anywhere in the oral cavity
- Wipe away
- Treat topically or systemically depending on extent of disease:
  - Clotrimazole troches 10mg x 70
  - Fluconazole 100mg x 15 tabs, Take 2 tabs on day 1, 1 tab daily for 2 weeks
- Decrease in incidence in the HAART era
LINEAR GINGIVAL ERYTHEMA

- Thought to be fungal
- “Red Band” Gingivitis
- May be present with or without dental plaque
- Treat with dental prophylaxis, reinforcement of oral hygiene
- Chlorhexidine 0.12% twice daily for 2 weeks
ORAL MANIFESTATIONS
NECROTIZING ULCERATIVE GINGIVITIS
NECROTIZING ULCERATIVE GINGIVITIS/PERIODONTITIS

- Bacterial
- Suggestive of severe immune suppression
- Severe pain
  - “Deep jaw” pain
- Loose teeth
- Bleeding
- Fetid odor
- Rapid loss of bone and soft tissue
NUP

• Treatment
  • Debridement
  • 0.12% Chlorhexidine OR 10% povidone-iodine lavage
  • Systemic antibiotics
    • Augmentin 875mg, Disp 14. 1 tab BID for 7 days
    • OR Metronidazole 500mg, Disp 14. 1 tab BID for 7 days
  • Pain control as needed
  • Referral to primary care/HIV specialist
ORAL HAIRY LEUKOPLAKIA

- Viral
  - EBV
- Significant decrease in incidence of OHL in HAART era
- Treatment not usually required
- May use high-dose acyclovir (4g/day) for temporary relief
KAPOSI’S SARCOMA

• Most frequent HIV-associated oral malignancy
• Can be macular, nodular, or raised and ulcerated.
• Early lesions usually flat and red-purple, asymptomatic
• Treatment
  • Localized injections of chemotherapeutic agents
    • Vinblastine sulfate
  • Surgical removal
  • Systemic chemo for patients with intra AND extra oral presentation
HPV/ORAL WARTS

- May appear cauliflower-like, spiked, or raised with a flat surface.
- Treatment may involve surgery, laser-surgery, or cryotherapy
- Recurrence
Factors that predispose to oral conditions:
- CD4 < 200 cells/mm$^3$
- Viral Load > 3000 copies/mm$^3$
- Xerostomia
- Poor Oral Hygiene
- Smoking
SINCE HAART

- Decreased oral candidiasis
- Increase in HIV-related salivary gland disease
- Increase in oral warts
HIV SALIVARY GLAND DISEASE

- Increase in size of major salivary glands
  - Bilateral parotid swelling
  - Xerostomia
XEROSTOMIA

- ~30-40% of PLHWA experience moderate to severe xerostomia
- Changes in quality AND quantity
- Diminished antimicrobial properties
  - Rapidly advancing dental decay
  - Periodontal disease
COMMUNICATION

- Medical
  - Simple Screenings
  - Refer for Oral Health Care
  - Reinforce the importance of Oral Health
COMMUNICATION

- Dental
  - Medical history review, lab values, modifications
  - Reinforce medical care
  - Certain Oral Manifestations can signal:
    - Progression of disease
    - Failure of therapy
      - Non-adherence
      - Resistance
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THANK YOU

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