Detecting Oral CancerA guide for health care professionals

U.S. DEPARTMENT OF HEALTH AND HUMAN SERVICES NATIONAL INSTITUTES OF HEALTH National Institute of Dental and Craniofacial Research

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Introduction

- In 2008, the ACS estimated that over 1.4 million new cancer cases would be diagnosed in the United States.
- Further estimated that over 500,000 were expected to die which equals to more than 1500 /day.
- Overall, cancer is the leading cause of death in women age 40-79 and among men from age 60-79

 The incidence of cancer and the mortality rates vary significantly among racial and ethnic groups

For all cancer sites combined:

African American men have a 25% higher cancer incidence and 43% mortality rate compared to white men

African American women have lower incidence rates than do white women, but have 20% higher mortality rate.

Cancer is characterized by the uncontrolled growth and spread of abnormal cells	
Extrinsic and Intrinsic factors	
 Extrinsic: tobacco, alcohol, chemicals, solar and ionizing radiation, infectious microorganisms, environmental pollutants and medications 	
 Intrinsic: inherited mutations, hormones and immune conditions 	
Cancer Treatment	
 Surgery, chemotherapy, radiation therapy, hormones and immunotherapy 	
normones and immunotherapy	
 Surgery is most common for primary tumors and may be curative 	
and may be curative	
When tumor metastasizes, RT and chemotherapy are necessary for definitive care	
chemodierapy are necessary for definitive care	
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Incidence and Survival of Oral or Pharyngeal Cancer	
or oral or ritaryingear cancer	
30,000 new cases diagnosed yearly	
8,000 deaths each year	
• 5 year survival rate: 50%	
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Folk Batalia Control
Early Detection Saves Lives
 5-year survival for localized disease is 76%
 5-year survival for metastatic disease is 19%
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Early Detection is Often Possible
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 Tissue changes in the mouth that may signal cancer can often be seen and felt easily
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Warning Signs
Leukoplakia
Erythroplakia
- Li yu ii opiakia

Other Possible Warning Signs

- Lump or thickening of oral soft tissue
- Soreness or "lump" in throat
- Difficulty chewing or swallowing
- Ear pain
- Difficulty moving jaw or tongue
- Hoarseness
- Numbness of tongue or mouth
- Swelling of the jaw

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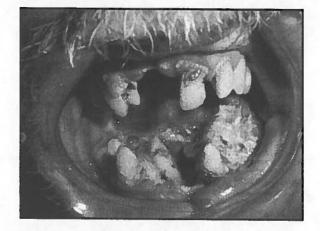
Review of Risk Factors

- Tobacco use
- · Alcohol use
- Exposure to sunlight
- Age
- Gender
- Race

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Examination Overview

- Head and neck exam should be a routine part of dental and medical check-ups.
- Take a history of alcohol and tobacco use.
- Follow up on suspicious signs.

Tools and Time

- Proper lighting
- Dental mouth mirror
- Gauze squares
- Gloves
- 5 minutes

Extraoral Examination Perioral and Intraoral Soft Tissue Examination: Lips Perioral and Intraoral Soft Tissue Examination: Labial Mucosa

Perioral and Intraoral Soft Tissue Examination: Labial Mucosa Perioral and Intraoral Soft Tissue Examination: Buccal Mucosa **Perioral and Intraoral Soft** Tissue Examination: Buccal Mucosa

Perioral and Intraoral Soft Tissue Examination: Gingiva





Perioral and Intraoral Soft Tissue Examination: Left Margin of the Tongue



Perioral and Intraoral Soft Tissue Examination: Right Margin of the Tongue



Perioral and Intraoral Soft Tissue Examination: Ventral Surface of the Tongue



Perioral and Intraoral Soft Tissue Examination: Floor of the Mouth



Perioral and Intraoral Soft Tissue Examination: Hard Palate

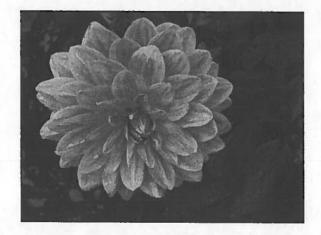
Perioral and Intraoral Soft Tissue Examination: Oropharynx



Perioral and Intraoral Soft Tissue Examination



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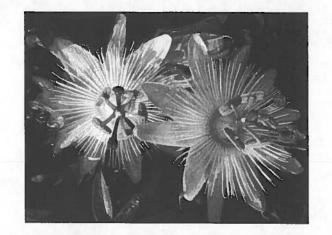
Oral Lesions Suspicious for Oral Cancer

- Homogenous leukoplakia
- Leukoplakia with early squamous cell carcinoma
- Nodular leukoplakia with severe epithelial dysplasia
- Erythroleukoplakia with candida infection

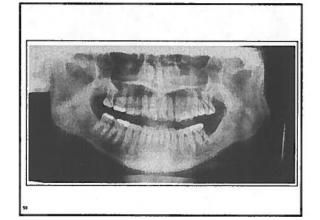


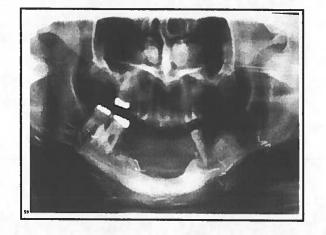
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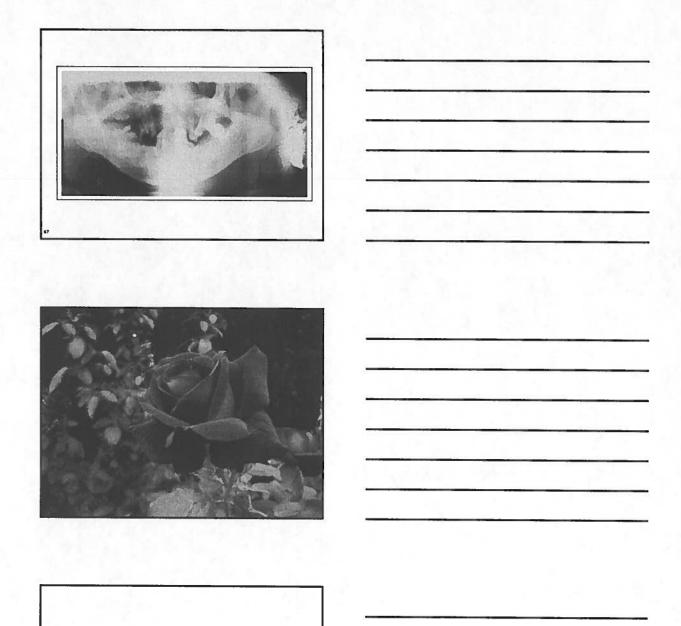
Case Study #1



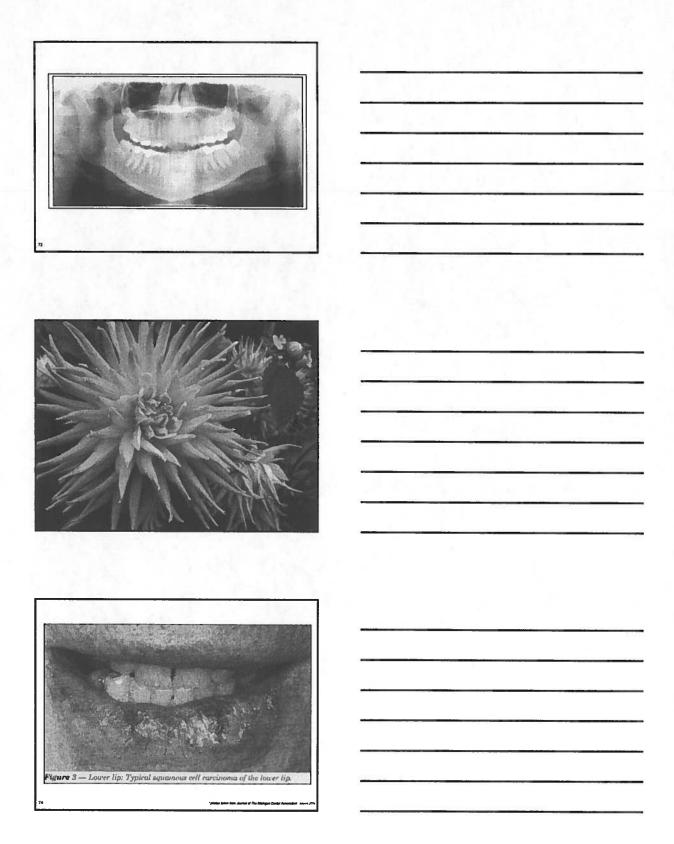


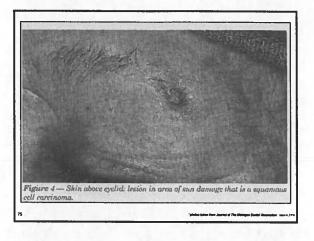


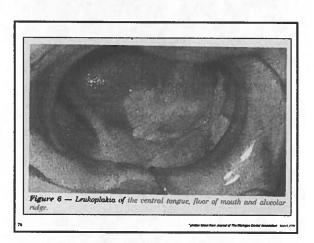
Case Study #2

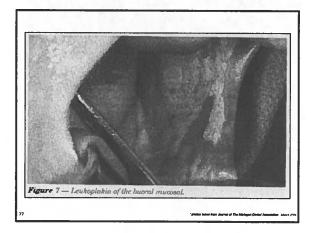


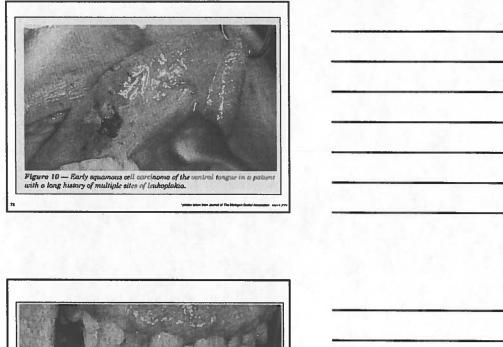
Case Study #3

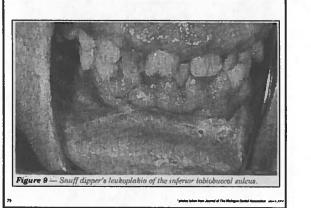


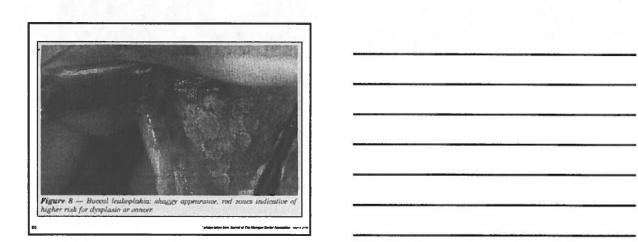


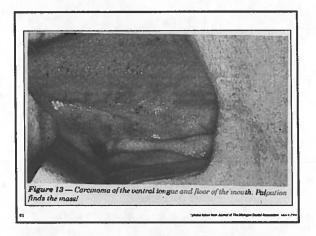


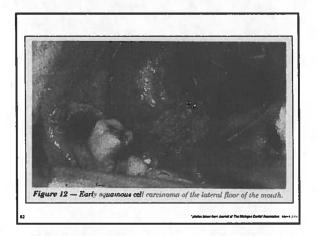


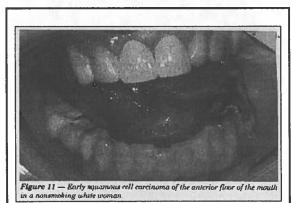




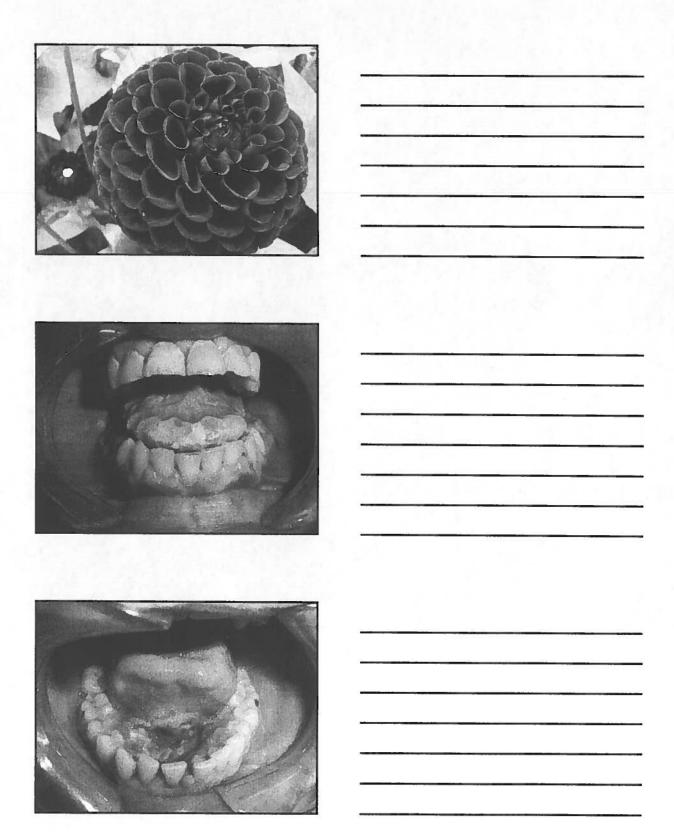




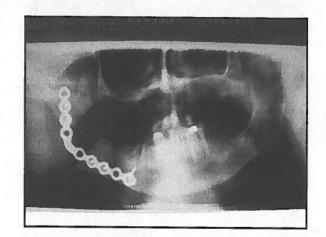


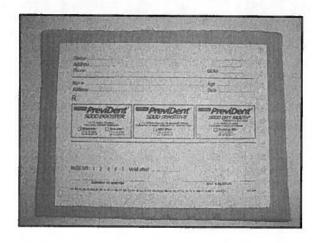


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