Dr. Alice Horowitz's Vision for a State Oral Cancer Prevention Model: The Maryland Experience

American Public Health Association 2007 Scientific Session

> Dr. Harry Goodman, Professor University of Maryland Dental School November 6, 2007

> > Copyright 2007, Harry Goodman, hgoodman@maryland.edu

## Oral Cancer Facts

Comprise about 3% of all cancers in the United States

More common than:

- Leukemia
- Hodgkin's disease



Cancer of the brain, liver, bone, thyroid gland, stomach, ovary or cervix
 Squamous cell carcinoma

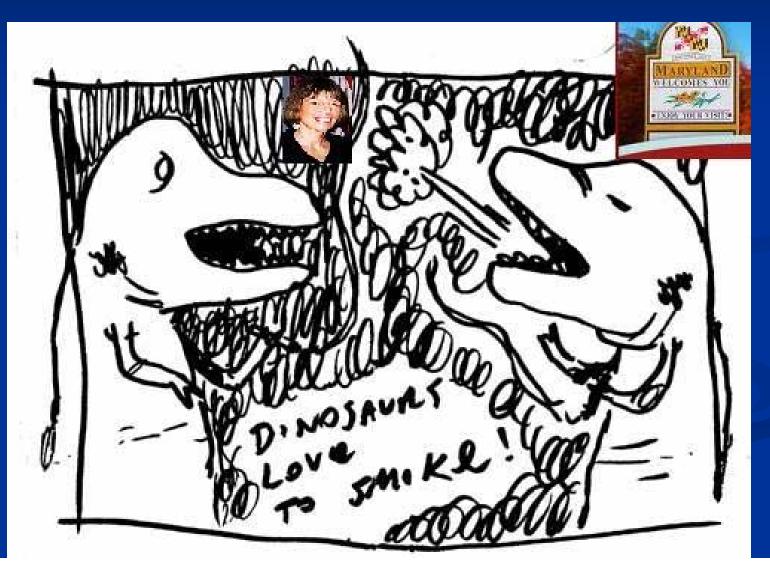
(A)lice (H)orowitz's Vision for the Maryland State Oral Cancer Prevention Model Outline

Maryland Oral Cancer Prevention Eras:
 Pre-(A)scension of (H)ealth

# (A)t (H)igh Noon

# Open Up and Say "AH"

# The Pre-Ascension of Health Awareness Era



Copyright 2007, Harry Goodman, hgoodman@maryland.edu

## Oral Cancer

"The forgotten disease" Lower priority cancer to healthcare providers and the public Little attention paid to healthcare providers and public: Know and how taught Attitudes and beliefs Behaviors and practices Little improvement in 5-year survival rates Lower for African-Americans

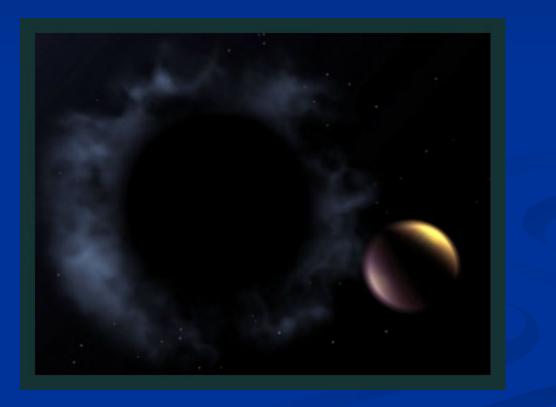
# Oral Cancer - Maryland

- Maryland ranked seventh in mortality rates
- Maryland ranked sixth in mortality rate among males
- 3<sup>rd</sup> highest mortality rate in the US for African American males
- 5-year survival rate in Maryland for African Americans is 33% (whites -55%)
- Nearly a 20% higher death rate from oral cancer in Maryland than the US
   Ries et. al. SEER Cancer Statistics review, 1973-1996



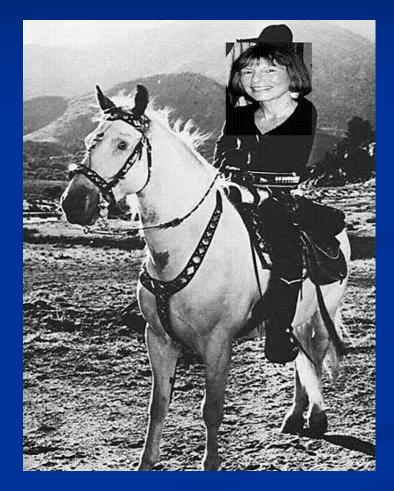


# And What was Happening?



Copyright 2007, Harry Goodman, hgoodman@maryland.edu

# The At High Noon Era: The Sheriff Comes to Town...



Copyright 2007, Harry Goodman, hgoodman@maryland.edu

### Oral Cancer Prevention Maryland - Early Steps

- Formation of small coalition
  - NIDCR
  - University of Maryland Dental School
  - Maryland Office of Oral Health
  - American Cancer Society
- Networking and Presentations
- Secure small grants and other funds
- Contract with Maryland Cancer Registry
- Maryland State Model for Oral Cancer Prevention

Oral Cancer Prevention Maryland State Model Phase I - Needs Assessment

Phase II - Development and Pilot Testing of Educational Interventions

Phase III - Program Evaluation

**Oral Cancer Prevention** Activities - Maryland Phase I - Needs Assessment Building a partnership - DHMH, NIDCR, UMD, MSDA, MDHA, MAFP, ACS, others Assessment of funds Review of state epidemiological data Surveys and focus groups of health care providers Survey and focus groups of public Publication and dissemination of findings

Maryland Health Care Providers Oral Cancer Knowledge and Practices,1995 Summary and Conclusions

Majority know tobacco and alcohol risk factors
Many do not adequately assess tobacco and alcohol use - especially past use
Majority do not feel adequately trained to provide comprehensive oral cancer exams
Further need for better knowledge and information to improve practices

## Oral Cancer Public

Maryland Adults' Knowledge of Oral Cancer and Having Oral Cancer Examinations, 1994

Maryland telephone survey of the public:

- 23% correctly identified one early sign of oral cancer
- 39% 'did not know' early signs of oral cancer

Horowitz, Moon, Goodman, Yellowitz. J Public Health Dent 1998;58(4):281-7

## Oral Cancer Activities - Maryland

Phase II - Development and Pilot Testing of Educational Interventions

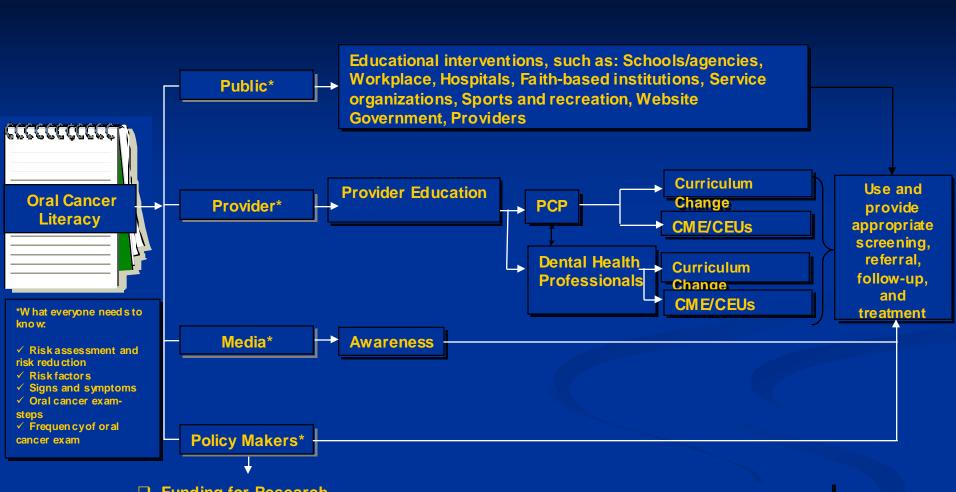
- Develop educational intervention(s) and pilot test -public and health care providers
- Develop, test and produce educational materials
- Implement educational interventions
- Continuation of partnership building

# Oral Cavity and Oropharyngeal Prevention Committee

Proceedings and Recommendations

Copyright 2007, Harry Goodman, hgoodman@maryland.edu

#### Oral Cancer Prevention, Early Detection, and Treatment Model



- Funding for Research
- Covering of medically necessary dental procedures
- □ Uniform adult dental coverage that includes preventive services as well as emergency care
- □ Management/incorporation uninsured and undocumented populations
- □ CME/CEU
- □ Medical & Dental Board Licensure and Re-licensure
- Oral Cancer Competency Module on Licensure Exams

Oral Cancer Literacy What Everyone Needs to Know Public, health care providers, policymakers and media Risk assessment and risk reduction Risk factors Signs and symptoms Behavior modification Public to request oral cancer examination Providers to incorporate adequate oral cancer examination into standard of care

Adequacy of oral cancer examination
 Frequency of oral cancer examination

#### Maryland Oral Cancer Legislation/Funding

- Cigarette Restitution Fund (CRF tobacco settlement)
  - Approximately \$4.4 billion over 25 years
    5 out of 24 counties targeting oral cancer

 SB791/HB1184 (Prevent Oral Cancer Mortality)
 Funding to the Office of Oral Health (OOH)
 Oral Cancer Education, Public Awareness and Provider Training Grants

## Oral Cancer Prevention Initiative

Kick-off event - Camden Yards at Oriole Park

- Governor proclaims annual week in June as "Oral Cancer Awareness Week" in Maryland
  - Eastern Shore Coalition
  - Statewide Oral Cancer Screenings
  - Public Service Announcements print, TV, radio
- Public relations "Prevent Oral Cancer" campaign
  - Develop oral cancer prevention toolkit
- Public oral cancer education and awareness PSA (Baltimore Orioles)
- Training of health care providers examinations
  - Develop oral cancer minimal clinical elements, flowcharts, screening, referral and consent forms
- Prevention/education oral cancer grants to Maryland counties:
  - Healthcare provider trainings
  - Public education and awareness
  - Oral cancer screenings

## OPEN WIDE... ORAL CANCER KILLS ...LOOK INSIDE

University of Maryland Statewide Health Network www.mdhealthnetwork.org

## Del Marva Shorebirds Ballfield Poster Campaign

Oral Cancer Activities - Maryland Phase III - Program Evaluation Review of State epidemiological data Surveys of health care providers and public Prepare publications/reports-disseminate Readjust educational interventions based on program evaluation Use findings for program revisions and for establishment of needed policies

### MARYLAND HEALTH IMPROVEMENT PLAN 2000-2010

Reducing Oral Cancer Mortality

Objective 1 - By 2010, increase to at least 50% the proportion of oropharyngeal cancer lesions detected at Stage I (localized).
 Baseline: 35.1%, detected at Stage I

Objective 2 - By 2010, increase to at least 50% the number of adults, aged 40 years and older, who, in the past year, reported having had an oropharyngeal cancer examination.

 Baseline: 20%, from 1995 data collected in Maryland by the National Institute of Dental and Craniofacial Research

### Maryland (DHMH) Office of Oral Health and Center for Cancer Surveillance and Control Oral Cancer Minimal Elements

- Screening and risk reduction for those at HIGH, AVERAGE and LOW RISK of oral cancer
- Perform comprehensive <u>oral cancer examination</u> yearly
- Educate on risk factors and preventive measures, e.g., avoiding tobacco, alcohol, sun, and using sun block lip balm
- Actions and follow-up of POSITIVE and NEGATIVE oral cancer examination findings
- Actions and follow-up of Incisional or Excisional Biopsy
- Actions and follow-up of Transepithelial Brush Biopsy

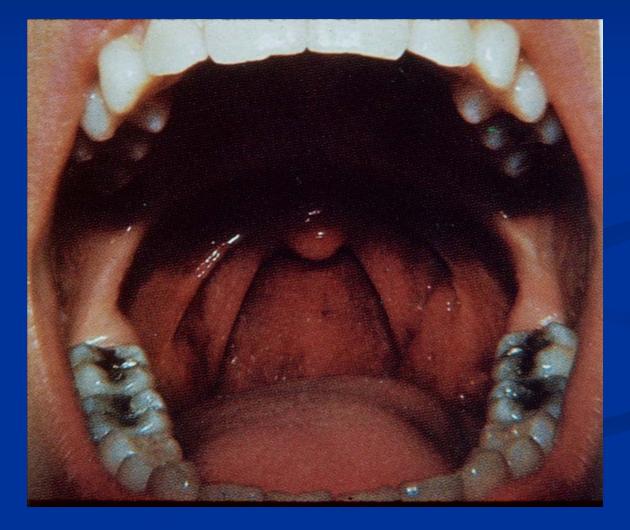
## The Maryland State Model for Oral Cancer Prevention

## American Dental Association 2002 National Award

Meritorious Award in Community Preventive Dentistry Maryland State Model for Oral Cancer Prevention National Outcome

STATE MODELS FOR ORAL CANCER PREVENTION AND EARLY DETECTION Release Date: June 22, 2000 **RFA:** DE-00-005 National Institute of Dental and Craniofacial Research

# The Open Up and Say "AH" Era





#### Maryland Oral Cancer Prevention Initiative (OOH)

- Statewide, prevention and education public health approach encompassing:
  - Oral cancer education for the public
  - Education/training of dental and non-dental health care providers
  - Screening and referral, if needed
  - Producing targeted health educational activities and materials
  - Creating didactic training program for health care providers throughout Maryland
  - Conducting an evaluation of the program and assess outcomes
  - Developing a statewide public relations oral cancer prevention campaign



#### Maryland Oral Cancer Program Information

Center for Cancer Surveillance and Control

# Local Public Health Activities Form local community health coalitions

- Write local comprehensive cancer plans
- Implement plans:
  - Educate the population
  - Screen those with low income and un- or under-insured
  - Treat or link to treatment
- 5 Maryland Counties targeting Oral Cancer
  - Baltimore City
  - Baltimore County
  - Garrett County
  - Montgomery County
  - Worcester County



### Oral Cancer Mortality in Maryland SEER 2000-2004/Maryland Office of Oral Health

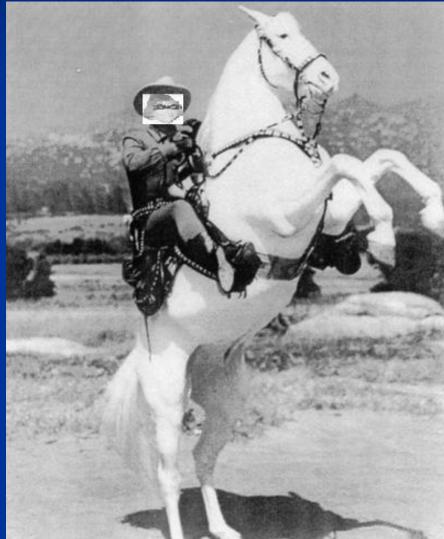
Maryland ranks 22nd in total age-adjusted mortality (2.7/100,000) among all states Equal to US average (2.7/100,000) Ranks 16th highest age-adjusted mortality rate in the US for males of all races (4.4/100,000) Higher than US average (4.1/100,000) Ranks 41<sup>st</sup> highest age-adjusted mortality rate in the US for females of all races (1.4/100,000) • Lower than US average (1.5/100,000)



#### Statewide Oral Cancer Program Information Outcomes to date – 1/2000 – 10/2005

20,325 individuals educated about oral cancer 18,971 general public 711 health care professionals 643 trainers 5,352 individuals screened for oral cancer 81 with findings of cancer or possible cancer 44 abnormal but work up unknown or complete 4 cancers detected 33 no cancer detected or suspected 1.6 million people potentially reached through media and resource materials

## "Hi-Yo Silver, Aw-a-a-a-a-y!" Heading on the DC Beltway to College Park, MD to address Health Literacy



Copyright 2007, Harry Goodman, hgoodman@maryland.edu

## A Heartfelt Thanks to Our Unsung Hero (and My Friend)

#### Editorial

#### Alice M. Horowitz, Ph.D., Oral Health Change Agent: An Unsung Hero

#### Myron Allukian, Jr., D.D.S., M.P.H.

Dr. Allakian is Director of Oral Health, Boston Public Health Commission. Direct correspondence to him at the Boston Public Health Commission, 774 Albany Su, Finland Building, Boston, MA 02118; 617-534-4717 phone; 617-534-9708 fax; myora\_allakiangi hiphcorg.

eare all familiar with the Oral Cancer Prevention, Dental Sealants, School-Based Fluoride, Oral Health Education and Promotion, Health Literacy, NIH Caries Consensus Con-

ference, and Healthy People 2000 and 2010 prevention initiatives and programs. However, we may not be familiar with the person who has consistently been most influential in bringing these and other issues to the attention of the dental community and the American people. Although many individuals, organizations, agencies, and institutions have been involved in the prevention of oral diseases in our country, if you look closely (and you have to look very closely), one person consistently stands out. Without a closer look. you would not realize that she has

been the force, the passion, and the worker behind these initiatives. Alice M. Horowitz, R.D.H., M.A., Ph.D., Se-

nior Scientist, Division of Population and Health Promotion Sciences at the National Institute of Dental and Cranioficalia Research (NIDCR), has been a highly dedicated, determined, committed, and conscientious behind-the-scenes national and international stimulus and resource for better onl health and overall health. Although Dr. Horowitz will insist that she is

just one of many individuals involved in promoting oral health, her imprint is consistently seen on many oral disease prevention initiatives that have been promoted in our country for the past twenty-five years. Some recent examples:

 The renewed interest in oral cancer prevention was stimulated by Dr. Horowitz and her colleagues, who

March 2002 Journal of Dental Education

p kyed a critical role in building a strategic national p kn for oral cancer prevention and then led the way to generate action. Her most recent contribution of many is documented in the November 2001 JADA Special Supplement—Combating Oral

Cancer.<sup>1</sup> Together with a team of agency representatives, Dr. Homowitz and collengues aptly led the development and promotion of the National Oral Health Objectives in Healthy People 2010.<sup>2</sup> Dr. Horowitz was the Planning Committee Chairperson of the 2001 NH Consensus Conference on the Management and Diagnosis of Dental Caries, and she led the team of review wers through evidence-based review methoology training, creating the first such approach for the NIH consensus conference process.<sup>3</sup>

Dr. Horowitz has focused on oral health promotion and disease prevention her entire career. She

is well known and recognized in the dental publicbanth and dental research communities, having been awarded the John W. Knutson Distinguished Service Award by the Oral Health Section of the America Public Health Association in 2000, the Distinguished Service Award of the American Association of Publie Health Dentistry in 1999, and the Trendley Dean Award from the International Association of Dental Research in 1992.

Dr. Horowitz received her R.D.H., B.A., and M.A. (Education) from the University of Iowa in the early 1960s and her Ph.D. in health education in 1992 from the University of Maryland—a real lifelong learner. She began her oral health career as a dental hygiensit in private practice, then taught at the Uni-

357