Acknowledgement and Disclosure

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First Surgeon General’s Report on Oral Health

Major Message of 2000: Oral Health is more than healthy teeth and is integral to the general health and well-being of all Americans.

– Safe and effective measures exist to improve oral health and prevent disease
– Health risk factors, such as tobacco use and poor dietary practices, affect oral and craniofacial health
The 2003 Call to Action urged that we:

– Change perceptions of oral health
– Replicate effective programs
– Build the science base and accelerate science transfer
– Increase oral health workforce diversity, capacity, and flexibility
– Increase collaborations
How Has the U.S. Changed in the Last 20 Years?

- Untreated dental caries and tooth loss
- Oral health disparities
- Oral microbiome and biomaterials
- Mental illness and substance abuse
- Oral HPV and E-cigarettes
- Health care expenditures
- Changing workforce
- Aging America
- Cell phones

Source: http://sphweb.bumc.bu.edu/
“Better Health Through Better Partnerships”

– Substance Misuse: Opioids, Tobacco, and E-cigarettes
– Community Health and Economic Prosperity
– National Security: Military Eligibility and Readiness
– Vaccinations
– Oral Health
What are the Main Drivers in a Changing World?

– Digitization of everything
  ▪ Communication
  ▪ Information/data management
  ▪ Technology

– Delivery of services
  ▪ Consolidation/Interprofessional models
  ▪ Economic efficiencies

– Demographic changes
  ▪ 1.5 billion more of us
  ▪ More diverse, more urban, older
Global Impact of Oral Disorders

Global Burden of Disease

- Top 3 Prevalent Cases
  - Oral Disorders (3.5B)
  - Headaches (3.0B)
  - Tuberculosis (1.9B)

https://vizhub.healthdata.org/gbd-compare/
Oral Disorders, Both Sexes, All Ages, 2017, Prevalence
Global Impact of Oral Disorders

Oral Disorders are highly prevalent worldwide

- Untreated caries in permanent teeth – 1st
- Severe Periodontitis – 11th
- Untreated caries in primary teeth – 17th
- Severe tooth loss / Edentulism – 29th

Aging of America is Critical for Oral Health

By 2035, there will be more older adults than youth in the U.S.

Changing Dependency Ratios can affect employment-based insurance coverage
Total population and prevalence of edentulism in U.S. adults, 65–74 years

Changes in functional dentition (≥21 teeth) of U.S. adults, aged 65+ years

Geography Influences Oral Health

Percentage of adults aged 65+ years with no natural teeth (2016)

Declining Edentulism (18%), but disparities remain among lower income adults (34%)

This disproportionately affects some adults based on where they live

Gender differential in older age profoundly affects prevalence of some chronic diseases

Oral Health Gender Disparities

Total and Severe Periodontitis in the U.S. by Gender, 2009–2014

Total periodontitis (42%) for adults age 30 and older:
• 50% (men)
• 35% (women)

Severe periodontitis (9%) for adults age 65 and older:
• 13% (men)
• 5% (women)

6.7 million adults (3%) report drug dependence or abuse

48,000 opioid overdose deaths in 2017 (>65% of all overdose deaths)

Source: Kaiser Family Foundation analysis of Centers for Disease Control and Prevention (CDC), National Center for Health Statistics. Multiple Cause of Death 1999-2017 on CDC WONDER Online Database, released 2018. Data are from the Multiple Cause of Death Files, 1999-2017, as compiled from data provided by the 57 vital statistics jurisdictions through the Vital Statistics Cooperative Program. (Accessed May 24, 2019.) Kaiser Family Foundation. Substance Abuse and Mental Health Services Administration (SAMHSA), Center for Behavioral Health Statistics and Quality, National Survey on Drug Use and Health (NSDUH), 2016 and 2017. (Accessed April 10, 2019.)
Among 15–49-year-olds in the United States, 19% of all deaths were attributed to SUDs in 2017

- Canada: 9%
- Mexico: 0.5%

https://vizhub.healthdata.org/gbd-compare/
Drug Use Disorders, Mortality-percent of total deaths, Both Sexes, aged 15-49 years, 2017
Dental Care Expenditures: United States

Total inflation-adjusted dental expenditures in the United States

Cost: A Major Obstacle to Health Care

Percent of people who did not get selected health care services they needed in the past 12 months because of cost

Total Number of Dentists working per 100,000 people in the United States

Access to Professional Dental Care Affects OH

5,862 Dental Health Professional Shortage Areas (HPSAs) affect 58 million*

Emerging Models of Care

New Providers
- Dental Therapists
- Community OH Coordinators
- Physicians/Nurses

New Settings
- Primary Care
- Schools
- Teledentistry

Developing the 2020 SG’s Report on Oral Health
Guiding the 2020 Report

The report will describe and evaluate oral health and the interaction between oral health and general health throughout the lifespan, considering advances in science, health care integration, and social influences to articulate promising new directions for improving oral health and oral health equity across communities.
“Big” questions to answer

– Where we are now,
– Where we have made advances since 2000,
– What challenges persist since the last report,
– What new threats are emerging, and
– What are some promising new directions for research and improvement in oral health?
How are We Gathering Input?

**SG Listening Session (November 2018)**
- Elicited input from more than 150 health professionals, researchers, educators, and other experts

**Overview Webinar Inviting Public Comment (January 2019)**
- More than 1,850 Views
- Nearly 200 Comments

**Public Solicitation to Inform Us of Promising Practices (2019)**
- Asked the public to share exemplary private-public partnerships for improving oral health – Over 100 activities submitted to date
How Many People are Involved?

Editorial and Writing Teams

• 6 Section Editors and 20 Associate Editors leading teams of writers

• Nearly 400 contributors

Scientific and Technical Reviewers

• Nearly 75 subject matter experts recruited to review
Structure of the Report: Six Sections

1. Effect of Oral Health on the Community, Overall Well-Being, and the Economy
2. Oral Health in Children and Adolescents
3. Oral Health in Working-Age and Older Adults
4. Oral Health Integration, Workforce, and Practice
5. Substance Use Disorders, the Opioid Epidemic, High-Risk Behaviors, and Mental Health
6. Emerging Technologies and Promising Science to Transform Oral Health
It is anticipated that the 2020 Report will:

– Emphasize the importance of poor *oral health* as a public health issue
– Reinforce the importance of *oral health* throughout life
– Describe important contemporary issues affecting *oral health*
– Outline a vision for future research and policy directions
– Educate, encourage, and call upon all Americans to take action
How can the 2020 SGR influence dental practice?

**Highlight changes:**
- Affecting disease patterns
- Impacting Oral Health workforce
- Suggesting new directions in science and technology that can improve practice
- Influencing patient populations
- Impacting oral health inequities
- Shaping new directions in professional education

*Image from WSJ*
Questions

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Copies of the 2000 Surgeon General’s Report are available