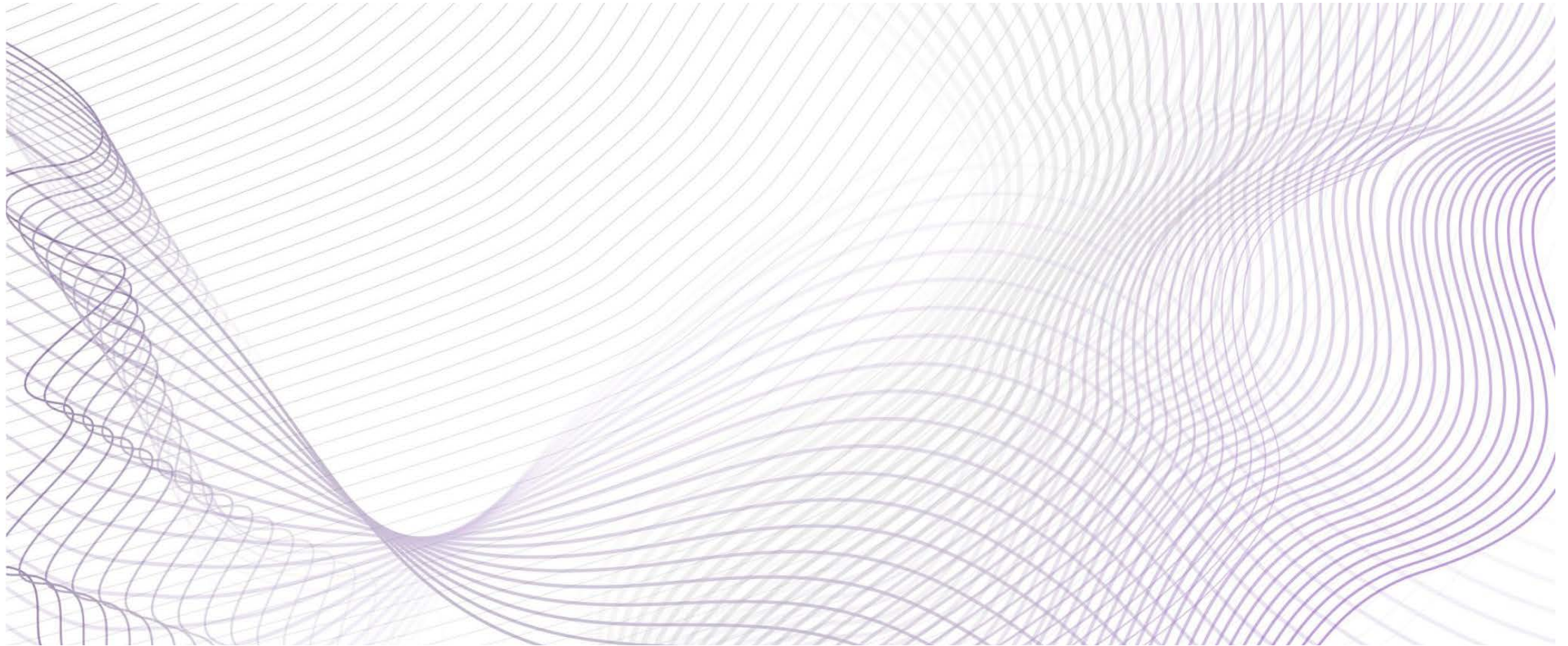


The Need to Address Oral Health in Primary Care Settings

Oral Health and Diabetes: Treatment and Management of
Adults with Diabetes



Jennel C. Osborne PhD, MPhil, MSNEd, RN

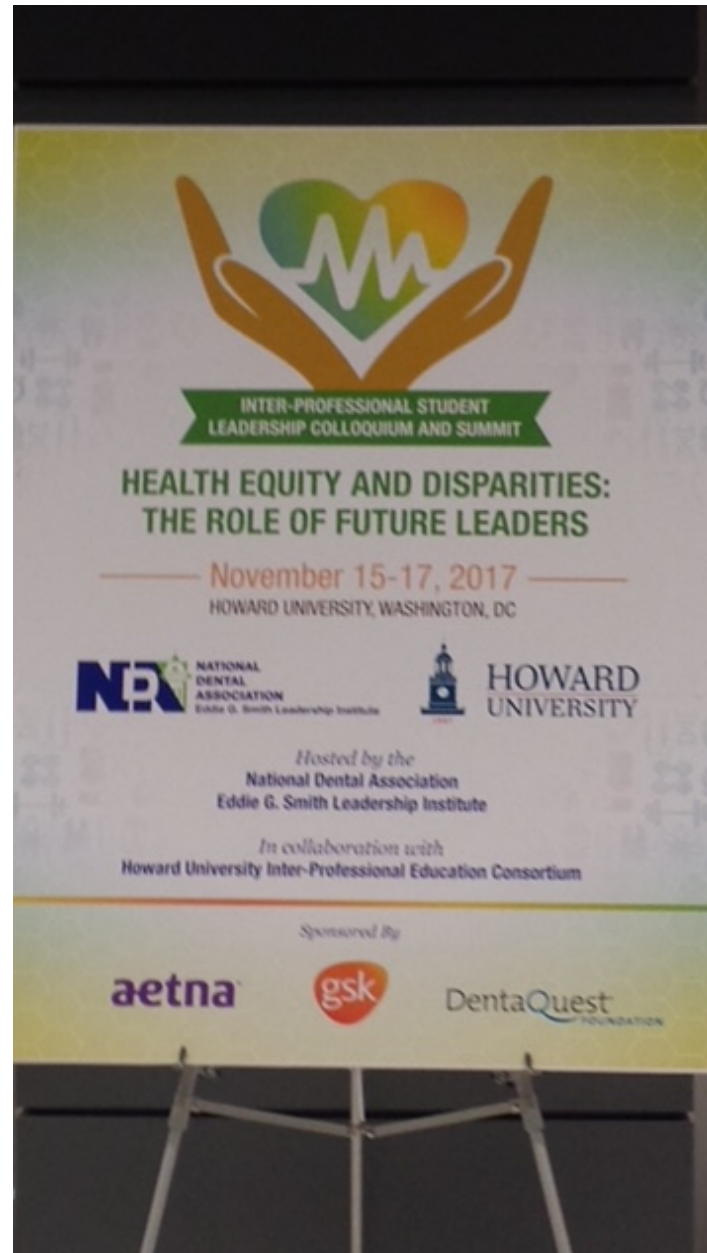


OVERVIEW

- My journey as a nurse in oral health.
- The role of nursing in oral health in primary care settings.
- Oral Health and Diabetes: Treatment and Management of Adults with Diabetes.



My Journey





Javits Convention Center, 2017



Javits Convention Center, Nov. 25-28, 2017



NDA @ St. Jude Children's Center, 2019



St. Jude Welcomes
NDAIPSLCS 2019



NDA @ Remote Area Medical (RAM), Tennessee - 2020



LIU Brooklyn Nursing Students 2019, Tennessee



LIU Brooklyn Nursing Students Assisting with Oral Procedures, 2020 – RAM, Tennessee



BACKGROUND

In the U.S.

- An estimated 37.3 million people have diabetes .
- Approximately 1 in 4 adults with diabetes are unaware.
- Roughly 96 million adults have **prediabetes**.
- Approximately 47% of adults > 30 years + have some form of periodontal disease.

SCREENING FOR DIABETES

- Age
- Prediabetes
- BMI higher than 25 (23 for Asian Americans)
- Women with gestational diabetes
- Anyone who has HIV

BACKGROUND

In the U.S.

- Adults with diabetes are 40% more likely to have untreated cavities compared to similar adults without diabetes (Wei et al., 2022).
- Poor oral health usually correlates with low-income, no insurance, racial/ethnic minority, immigrant status, and/or rural living (Northridge et al., 2020).

ADDRESSING THE PROBLEM

Inter-professional collaboration can improve care delivery and treatment outcomes in patients with diabetes who also have periodontal disease.

In 2021,
RNs (Registered Nurses) =
3,130,600 and Dentists =
146,200 (U.S. Bureau of Labor Statistics)

ADDRESSING THE PROBLEM

The role of primary healthcare personnel

- Training nursing students and nurses to perform oral screening during primary care visits.



FUTURE PLANS

- Conduct research with previous NDA student nurse/nurse graduates to determine the percentage who are performing oral screenings on patients in primary care settings.
 - Are nurses comfortable performing oral screening independently?
 - Are they referring patients to dental practitioners?
 - Do they have suggestions for improving oral screenings in primary care settings?

References

- Al-Nozha, M. M., Ismail, H. M., & Al Nozha, O. M. (2016). Coronary artery disease and diabetes mellitus. *Journal of Taibah University Medical Sciences*, 11(4), 330-338.
- Bureau of Labor Statistics, U.S. Department of Labor, *Occupational Outlook Handbook, Registered Nurses*, at <https://www.bls.gov/ooh/healthcare/registered-nurses.htm> (visited May 10, 2023).
- Eke, P. I., Dye, B. A., Wei, L., Thornton-Evans, G. O., & Genco, R. J. (2012). Prevalence of periodontitis in adults in the United States: 2009 and 2010. *Journal of dental research*, 91(10), 914-920.
- McCauley HB. 2003. The first dental college: emergence of dentistry as an autonomous profession. *J. Hist. Dent.* 51(1):41-45
- National Institute of Dental and Craniofacial Research. *Oral Health in America: A Report of the Surgeon General*. National Institutes of Health, US Department of Health and Human Services; 2000.
- National Institute of Diabetes and Digestive and Kidney Diseases (<https://www.niddk.nih.gov/health-information/diabetes>)
- Northridge, M. E., Kumar, A., & Kaur, R. (2020). Disparities in access to oral health care. *Annual review of public health*, 41, 513-535.
- Tavares, C. A. F., Wajchjenberg, B. L., Rochitte, C., & Lerario, A. C. (2016). Screening for asymptomatic coronary artery disease in patients with type 2 diabetes mellitus. *Archives of Endocrinology and Metabolism*, 60, 143-151.
- United States Census (<https://www.census.gov/quickfacts/fact/table/US/PST045222>).
- Wei L, Griffin SO, Parker M, Thornton-Evans G. Dental health status, utilization, and insurance coverage among adults with chronic conditions: implications for medical dental integration in the US. *J Am Dent Assoc.* 2022;153(6):563-571.
- Yun, A., Luo, Y., Calache, H., Wang, Y., Darby, I., & Lau, P. (2022, June). Diabetes and Oral Health (DiabOH): The Perspectives of Primary Healthcare Providers in the Management of Diabetes and Periodontitis in China and Comparison with Those in Australia. In *Healthcare* (Vol. 10, No. 6, p. 1032). MDPI.