The OHNEP Interprofessional Oral Health Faculty Toolkit

Adult Gerontology Acute Care Nurse Practitioner Program

ORAL HEALTH CORE COMPETENCIES:

- Advanced Physical Assessment Across the Lifespan
- Principles of Adult Gerontology Acute Care I- II
- Principles of Adult Gerontology Acute Care III
- Resources





INTRODUCTION



The Oral Health Nursing Education and Practice (OHNEP) program has developed an Interprofessional Oral Health Faculty Tool Kit to provide you with user-friendly curriculum templates and teaching-learning resources to use when integrating oral health and its links to overall health in your Adult Gerontology Acute Care Nurse Practitioner program.

Oral health and its relation to overall health has been identified as an important population health issue. *Healthy People 2020* (2011), the 2011 IOM Reports, *Advancing Oral Health in America* and *Improving Access to Oral Health Care for Vulnerable and Underserved Populations*, as well as the IPEC Competencies (2016), challenged HRSA to develop interprofessional oral health core competencies for primary care providers. Publication of the HRSA report, *Integration of Oral Health and Primary Care Practice* (2014), reflects those interprofessional oral health competencies that can be used by Adult Gerontology Acute Care Nurse Practitioners for faculty development, curriculum integration and establishment of "best practices" in clinical settings.

The HRSA interprofessional oral health core competencies, the IPEC competencies and the NONPF core competencies provide the framework for the curriculum templates and resources. Exciting teaching-learning strategies that take students from **Exposure** to **Immersion** to **Competence** can begin in the classroom, link to simulated or live clinical experiences and involve community-based service learning, advocacy and policy initiatives as venues you can readily use to integrate oral health into your existing primary care curriculum. The Adult Gerontology Acute Care Nurse Practitioner curriculum template illustrates how oral health can be integrated into acute care health assessment and clinical management courses.

The *Smiles for Life* interprofessional oral health curriculum provides a robust web-based resource for you to use along with the oral health curriculum template for each course. A good place to begin oral health integration is by transitioning the **HEENT** component of the history and physical exam to the **HEENOT** approach. In that way, you and your students will **NOT** forget about including oral health in patients encounters.

Research evidence continues to reveal an integral relationship between oral and systemic health. It is important for nurse practitioners on the frontline of acute care to have the oral health competencies necessary to recognize both normal and abnormal oral conditions and provide acute care patients with education, prevention, diagnosis, treatment and referral as needed.

We encourage you and your students to explore the resources in the templates as you "weave" oral health and its links to overall health into your Adult Gerontology Acute Care Nurse Practitioner program. If you need additional technical assistance, please feel free to contact us at **OHNEP@nyu.edu**.



AGACNP Curriculum Integration of Interprofessional Oral Health Competencies in Advanced Physical Assessment

ADVANCED PHYSICAL ASSESSMENT ACROSS THE LIFESPAN

IPEC

Competencies: Values and Ethics, Roles and Responsibilities Interprofessional Communication, Teams & Teamwork

HRSA Oral Health Competencies: Oral Health Risk Assessment, Oral Health Excluation, Oral Health Preventive Intervention, Communication

and Education

NONPF

Competencies:
Assesses the complex acute, critical, and chronically-ill patient for urgent and emergent conditions, using both physiologically and technologically derived data, to evaluate for physiologic instability and risk for potential life-threatening conditions

CONSTRUCTS

1) EXPOSURE: INTRODUCTION

• Complete Smiles for Life (SFL) Module #7,

including Clinical Cases, and submit Certificate

• Review the materials provided in the ACE.S

Teaching Strategies that focus on oral health

Putting the Mouth Back in the Head: HEENT to

KNOWLFDGF: ORAL FXAM

HEENOT (Haber et al., 2015)

of Completion

(NLN)

Read:

ENT

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ASSESSMENT

Goal: Understand the oral exam

2) IMMERSION: DEVELOPMENT

SKILL/BEHAVIOR

Goal: Describe best practices in dental caries management across the lifespan

- Review <u>ADA Adult Caries Risk Assessment</u> <u>Tool</u> for patients over age 6 (Appendix 1)
- Read and discuss <u>CAMBRA: Best Practices in</u> Dental Caries Management (Hurlbutt, 2011)

KNOWLEDGE: ORAL CARE OF ADULT

• Oral Health: An Essential Component of Primary Care (Hummel et al., 2016)

Goal: Understand oral care issues of adults in acute care

- Complete <u>Smiles for Life (SFL)</u> Modules #1 & 3, including Clinical Cases, and submit Certificates of Completion
- Read <u>Oral Health Patient Facts</u>: Overview, Diabetes, HPV

SKILL/BEHAVIOR

Goal: Identify oral pathologies

- Review Oral Abnormalities in the SFL Photo Gallery on the mobile app
- Discuss diagnoses related risk factors and management strategies

KNOWLEDGE: ORAL CARE OF OLDER ADULT

Goal: Understand oral care of older adults in acute care

- Complete <u>Smiles for Life (SFL)</u> Module #8, including Clinical Cases, and submit Certificate of Completion
- Read <u>Oral Health Patient Facts</u>: Older Adult

SKILL/BEHAVIOR

Goal: Documentation of oral health

 Develop an electronic health record entry for an older adult with an acute care health condition (e.g., diabetes, pneumonia, congestive heart failure, dementia), which includes oral health history, risk assessment, exam and management plan (HEENOT)

3) COMPETENCE: ENTRY-TO-PRACTICE

SKILL/BEHAVIOR

Goal: Demonstrate integration of HEENOT

- Using SP in simulation experience, demonstrate competency in oral health history (including frequency of sugar/tobacco/alcohol intake), risk assessment and physical exam of adult in acute setting, identifying any oral abnormalities
- Each student will compare acute care oral health assessment skills with classmate; review Impaired oral health status on admission is associated with poor clinical outcomes in post-acute inpatients: A prospective cohort study (Shiraishi et al., 2018)

SKILL/BEHAVIOR

SUMMATI

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ASSESSEET

Goal: Describe oral health practices of different cultures

- Read Tooth loss in middle-aged adults with diabetes and hypertension: Social determinants, health perceptions, oral impact on daily performance (OIDP) and treatment need (Maia et al., 2018)
- Each student will choose one culture and report on oral health practices of that culture

SKILL/BEHAVIOR

Goal: Understand Issues related to oral health of older adults in acute care settings

- Read Xerostomia Among Older Adults with Low Income: Nuisance or Warning? (Lee et al., 2016)
- Post and explain causes of xerostomia in older adults and management strategies on discussion board



Smiles for Life: A National Oral Health Curriculum

Access Smiles for Life Modules and Resources here:

https://smilesforlifeoralhealth.org







Smiles for Life: A National Oral Health Curriculum

Download Smiles for Life Modules

To download the SFL Modules for classroom instruction:

1. Go to

https://www.smilesforlifeoralhealth.org

- 2. Select "Teach Curriculum"
- 3. Select the course(s) you would like to download.
- 4. Select "Download Module"

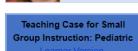
Download PowerPoint Presentation

Instructions



- 1. Click the appropriate link below
- 2. Select "Save" (NOT "Open")
- 3. Browse to choose desired location, and save file (some browsers may default to saving to the Downloads folder)
- The presentation is a PowerPoint slide show (.pps) which when opened will automatically display in presentation mode.
- · To run the slide show, click on the file. Advance the slides using your mouse or the space bar. To exit slide show, click the ESC button.
- · These presentations are locked and are not intended to be editable.
- PowerPoint presentations are only compatible with PC systems.
- · A Mac compatible version of the presentation is available.

Download Module Module 2: Child Oral











Smiles for Life: A National Oral Health Curriculum

Recognizing Oral Abnormalities

Download the Smiles for Life mobile app to access the Photo Gallery.

AG-ACNP Students should find and review the following oral abnormalities:

- Linea Alba
- Geographic tongue
- Fissured tongue
- Apthous ulcers
- Oral papilloma from HPV
- Candidiasis
- Herpes
- Denture Stomatitis
- Angular chelitis

- Dental caries
- GERD
- Gingival Recession
- Gingivitis
- Periodontitis
- Abscess
- Hairy Leukoplakia
- Oral malignancy
- Melanoma

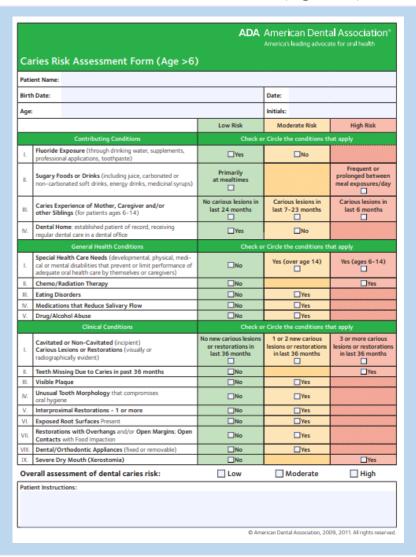




APPENDIX 1

Advanced Physical Assessment Across The Lifespan

American Dental Association Caries Risk Assessment Form (Ages >6)





AGACNP Curriculum Integration of Interprofessional Oral Health Competencies in Principles of Adult Gerontology Acute Care I- II

PRINCIPLES OF ADULT GERONTOLOGY ACUTE CARE I-II

IPEC

Competencies: Values and Ethics, Roles and Responsibilities Interprofessional Communication, Teams & Teamwork

HRSA Oral Health Competencies: Oral Health Risk Assessment, Oral Health Evaluation, Oral Health Preventive Intervention, Communication and Education

NONPF Competencie

Competencies:
Provides for the
promotion of health and
protection from disease
by assessing for risks
associated with care of
complex acute, critical,
and chronically-ill
patients

CONSTRUCTS

1) EXPOSURE: INTRODUCTION

KNOWLEDGE: ORAL HEALTH EDUCATION

Goal: Understand importance of maintaining
oral health throughout hospitalization

Read:

ENTRY

ASSESSENT

- The Impact of Hospitalization on Oral Health (Terezakis et al., 2011)
- <u>Oral Care of Hospitalised Older Patients in the Acute Medical Setting (Salamone et al., 2013)</u>
- Oral health and oral care in short-term care (Koistinen et al., 2019)
- Watch Oral Health in Older Adults in Acute Care Settings (NICHE 2014)

KNOWLEDGE: ORAL CARE MAINTENANCE

Goal: Understand relationship of oral care and VAP & HAP

- Review <u>Oral Health and Mechanically</u> <u>Ventilated Critically III Adults</u> (Jones et al., 2014) Read:
- Reducing missed oral care opportunities to prevent non-ventilator associated hospital acquired pneumonia (Munro & Baker, 2018)
- Implementation and dissemination of a department of veterans affairs oral care initiative (Munro et al., 2018)
- <u>Hospital Acquired Pneumonia Prevention</u> <u>Initiative-2</u> (Baker & Quinn, 2018)

KNOWLEDGE: ORAL-SYSTEMIC CONNECTION

Goal: Understand importance of oral health care in palliative care settings

- Watch Oral Health at the End of Life (Wholihan, 2014)
- Watch Oral Health in Long-Term and Palliative Care Settings (NICHE, 2014)
- Read <u>Developing an Interprofessional Oral</u>
 Health Education System That Meets the
 Needs of Older Adults (Atchison et al., 2019)

2) IMMERSION: DEVELOPMENT

SKILL/BEHAVIOR

Goal: Provide comprehensive health maintenance services to patients in acute care

Read:

- Who Needs Oral Care? (Konradsen et al., 2014)
- Evaluating and Managing Dental Complaints in Primary and Urgent Care (Idzik and Krauss, 2013)
- Improving the oral health of older people in hospital (Gibney et al., 2018)
- Develop management plan for patients in acute care and include HEENOT in history, risk assessment, exam and management plan

SKILL/BEHAVIOR

Goal: Provide comprehensive health maintenance services to reduce risk of VAP and non-VAP

Read:

- Oral care after stroke: Where are we now? (Lyons et al., 2018)
- Prevalence of stroke-related sarcopenia and its association with poor oral status in postacute stroke patients (Shiraishi et al., 2018)
- Develop an evidence-based oral care protocol for mechanically ventilated patients, include HEENOT in history, risk assessment, exam and management plan

SKILL/BEHAVIOR

Goal: Understand importance of oral health in palliative care settings

 Develop an evidence-based oral care protocol for patients in palliative care, include HEENOT in history, risk assessment, exam and management plan

3) COMPETENCE: ENTRY-TO-PRACTICE

SKILL/BEHAVIOR

Goal: Advocate for smoking cessation programs in your acute care setting

Read:

- High Intensity Interventions Promote Smoking Cessation Among Hospitalized Adults (Ostroff, 2013)
- Nursing Interventions for Smoking Cessation (Rice et al., 2013)
- Develop an evidence-based plan for smoking cessation in older adults with COPD, diabetes, CAD or CVD

SKILL/BEHAVIOR

SUMMATIVE

ASSESSEZE

Goal: Collaborate interprofessionally to provide comprehensive oral healthcare services to mechanically ventilated patients

- Read The effect of tooth brushing, irrigation, and topical tetracycline administration on the reduction of oral bacteria in mechanically ventilated patients (Hayashida et al., 2016)
- Present an Interprofessional panel (e.g., AGCNP, MD, DDS, nutritionist, respiratory therapist) on oral health issues in hospitalized patients, Include dentures, nutrition, smoking, VAP, stroke, surgery.

SKILL/BEHAVIOR

Goal: Collaborate interprofessionally to provide comprehensive oral healthcare services to adults in palliative care

- Develop an evidence-based oral care protocol for patient in palliative care
 Present an Interprofessional panel (e.g.,
- Present an Interprofessional panel (e.g. AGCNP, MD, DDS, speech & language pathologist) on oral health and symptom management in palliative care patients



AGACNP Curriculum Integration of Interprofessional Oral Health Competencies in Principles of Adult Gerontology Acute Care III

PRINCIPLES OF **ADULT GERONTOLOGY ACUTE CARE III**

IPEC

Competencies: Values and Ethics. Responsibilities Teams & Teamwork

HRSA Oral Health Competencies: Oral Health Risk Assessment, Oral Health Evaluation, Oral Health Preventive Intervention. Communication and Education

NONPF

Competencies: Assesses individuals with complex health issues and co-morbidities. including the interaction with aging and acute and chronic physical and mental health problems; Works collaboratively with a variety of health professionals to achieve patient care goals, promote stabilization and restoration of health in complex acute, critical. and chronic illness.

CONSTRUCTS

1) EXPOSURE: INTRODUCTION

KNOWLEDGE: HOSPITALIZED ADULT WITH CHRONIC DISEASE

Goal: Recognize oral health care needs of hospitalized patients with chronic diseases

Students read about one chronic disease (Appendix 1) and present findings to class:

- Cardiovascular
- Kidney Disease
- Liver Disease
- HIV

ENTR

L E V

ASSESSEZ

- Diabetes
- Cancer

KNOWLEDGE: HOSPITALIZED ADULT IN ICU

Goal: Recognize oral health care needs of hospitalized patients in ICU

Read:

- Oral Health and Care in the ICU (Munro et al., 2004)
- Periodontal Disease as a Risk Factor for Ischemic Stroke (Grau et al., 2004)

KNOWLEDGE: HOSPITALIZED OLDER ADULTS WITH NEUROLOGICAL DISORDERS

Goal: Recognize oral health needs of hospitalized older adults with neurologic problems

Read:

- Randomised clinical trial: Efficacy of strategies to provide oral hygiene activities to nursing home residents with dementia who resist mouth care (Jablonski et al., 2018)
- Ensuring Oral Health for Older Individuals with Intellectual and Development Disabilities (Waldman & Perlman, 2012)

2) IMMERSION: DEVELOPMENT

SKILL/BEHAVIOR

Goal: Identify oral manifestations of chronic disease in hospitalized adults

- Each student will develop a comprehensive oral care plan for patient with chronic disease and oral health needs, include HEENOT in history, risk assessment, exam and management plan
- Collaborate on case study (Appendix 2) of adult hospitalized for diabetic ketoacidosis

SKILL/BEHAVIOR

Goal: Identify oral health care needs of patients in ICU

- Prevalence of stroke-related sarcopenia and its association with poor oral status in postacute stroke patients (Shiraishi et al., 2018)
- Student will develop comprehensive oral health care plan for adults in ICU, include HEENOT in history, risk assessment, exam and management plan

SKILL/BEHAVIOR

Goal: Develop comprehensive oral health plan for hospitalized older adults with neurologic problems

- Read Parkinson's Disease Oral Health Module: Interprofessional Coordination of Care (Jeter et al., 2018)
- Student will develop comprehensive oral health care plan for hospitalized older adults with Parkinson's disease, include HEENOT in history, risk assessment, exam and management plan

3) COMPETENCE: ENTRY-TO-PRACTICE

COLLABORATIVE PANEL

Goal: Collaborate interprofessionally to provide comprehensive oral healthcare services to adult in acute care with chronic disease and oral health care needs

• Students will create interprofessional panel to collaborate on developing a management plan for hospitalized patients with chronic disease and oral health care needs, including appropriate referral structures

COLLABORATIVE PANEL

SUMMAT-VE

ASSESSEZE

Goal: Collaborate interprofessionally to provide comprehensive oral healthcare services to hospitalized adults in ICU

• Students will create interprofessional panel (e.g., AGCNP, MD, DDS, respiratory therapists) to collaborate together on developing a management plan for patients in ICU

COLLABORATIVE PANEL

Goal: Collaborate interprofessionally on case study of older adult with cognitive decline and oral health needs

- Collaborative Practice (Kaufman et al., 2016)
- AG-ACNP and dental students to collaborate on developing a comprehensive oral health management plan for older adults with dementia and oral health needs
- Maturation of the MOUTh Intervention: From Reducing Threat to Relationship-Centered Care (Jablonski et al., 2016)

• Read Oral Health and Interprofessional



Principles of Adult Gerontology Acute Care III



Oral Health Needs of Hospitalized Adults with Chronic Diseases

Cardiovascular:

Sanchez, P., Everett, B., Salamonson, Y., Ajwani, S., Bhole, S., Bishop, J., ... & George, A. Oral health and cardiovascular care: Perceptions of people with cardiovascular disease. *PLoS One*, *12*(7), e0181189. doi: 10.1371/journal.pone.0181189.

Kidney Disease:

Blue, C., Isringhausen, K., & Dils, E. (2011). Raising oral health awareness among nephrology nurses. *Journal of Dental Hygiene*, 85(2), 151-157.

Liver Disease:

Groenkjaer, L.L. (2015) Oral care in hepatology nursing: Nurses' knowledge and education. *Gastroenterology Nursing*, *38*(1), 22-30. doi: 10.1097/SGA.00000000000086.

HIV:

Bradley E.L.P., Vidot, D.C., Gaul, Z., Sutton, M.Y., & Pereyra, M. (2018). Acceptability of oral rapid HIV testing at dental clinics in communities with high HIV prevalence in South Florida. *PLoS One*, *13*(4), e0196323. doi: 10.1371/journal.pone.0196323.

Diabetes:

Poudel, P., Griffiths, R., Wong, V.W., Arora, A., & George, A. (2017). Knowledge and practices of diabetes care providers in oral health care and their potential role in oral health promotion: A scoping review. *Diabetes Research and Clinical Practice, 130*, 266-277. doi: 10.1016/j.diabres.2017.06.004.

Cancer:

Hartnett, E. (2015). Integrating oral health throughout cancer care. *Clinical Journal of Oncology Nursing, 19*(5), 615-619. doi: 10.1188/15.CJON.615-619.

Palay, C. (2017). Dental care: Unmet oral needs of patients with cancer and survivors. *Clinical Journal of Oncology Nursing*, 21(5), 629-632. doi: 10.1188/17.CJON.629-632.

APPENDIX 2

Principles of Adult Gerontology Acute Care III



Diabetes Case Study

Presentation: A 48-year- old Hispanic woman with a long history of obesity, diabetes, dyslipidemia, and reactive airway disease presented to the hospital emergency department with a 5-day history of weakness, fever, productive cough, nausea, and vomiting.

Patient report and chart review confirmed that 2 years before this presentation, her diabetes had been managed with diet alone. In the past year, glipizide (Glucotrol), metformin (Glucophage), and ultralenteinsulin were added because of poor glycemic control.

On examination, her temperature was 99.1° F, blood pressure was 98/64 mmHg, pulse was 136,and respirations were 36. There was a strong smell of ketones in the exam room. The patient was drowsy but cogent. Her head and neck exam revealed poor dentition and symptoms of periodontal disease. Her lung sounds were clear without wheezes or rhonchi. Her heart sounds were normal. The abdominal exam revealed mild epigastric tenderness to deep palpation but no rebound tenderness or guarding. Extremities were well perfused with symmetric pulses.

Laboratory results were remarkable for a room air arterial blood gas with pH of 7.12, pCO 2 of 17mmHg, and bicarbonate of 5.6 mEq/l. Urinalysis revealed 4+ glucose and 3+ ketones. Chemistry panel revealed a glucose of 420 mg/dl, BUN of 16 mg/dl, creatinine of 1.3 mg/dl, sodium of 139mEq/l, chloride of 112 mEq/l, CO 2 of 11.2 mmol/l, and potassium of 5.0 mEq/l. Chest X-ray revealed no infiltrate.

Questions

- 1. Is this patient experiencing diabetic ketoacidosis (DKA)?
- 2. What type of diabetes does this patient have?
- 3. What kind of oral care would be important to provide to the patient?
- 4. What is the relationship between diabetes and periodontal disease?
- 5. Who is on your interprofessional team and what are the roles of each team member?
- 6. What is included in your plan for inpatient treatment?
- 7. What are the expectations for outpatient treatment?

RESOURCES



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www.OHNEP.org

Oral Health Nursing Education and Practice

www.SmilesforLifeOralHealth.org

National Oral Health Curriculum

www.ohnep.org/news/oral-health-

patient-facts

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Oral Health Patient Facts

www.IPECollaborative.org

Interprofessional Educational

Collaborative

www.APTRweb.org/?PHLM_15

Oral Health Across Lifespan Module

www.HealthyPeople.gov

10-year national health goals for

Americans

www.ToothWisdom.org

Health Resources for Older Adults

www.HIGN.org

Hartford Institute Geriatric Oral Health

www.UKY.edu/NursingHomeOralHe alth

Nursing Home Oral Health

www.IPE.UToronto.ca

University of Toronto's Centre for Interprofessional Education

RESOURCES



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