# The Practice of Occupational Therapy in Feeding, Eating, and Swallowing

Feeding, eating, and swallowing are valued occupations across the lifespan—activities of daily living (ADLs) that are "fundamental to living in a social world; they enable basic survival and well-being" (Christiansen & Hammecker, 2001, p. 156). Occupational therapy's longstanding expertise in ADLs includes involvement in the feeding, eating, and swallowing performance of people across the lifespan (American Occupational Therapy Association [AOTA], 2014b). Both occupational therapists and occupational therapy assistants¹ provide essential services in the comprehensive management of feeding, eating, and swallowing problems. Occupational therapy practitioners² have the education, knowledge, and skills necessary for the evaluation of and intervention with feeding, eating, and swallowing problems.

#### **Purpose**

The purpose of this guideline is to clarify the role and describe the distinct perspective of occupational therapy practitioners in the delivery of occupational therapy services for people with feeding, eating, and swallowing impairments and performance limitations. Occupational therapy practitioners are uniquely positioned to assess and treat difficulties associated with feeding, eating, and swallowing because of the profession's holistic perspective of recognizing and assessing not only the physiological factors but also the psychosocial, cultural, and environmental factors involved with these aspects of daily performance. Problems addressed can be wide ranging and may include difficulty with physically bringing food to the mouth and orally managing the bolus, impairment of the pharyngeal swallow, psychologically based eating disorders, and dysfunction related to cognitive impairments.

Occupation-centered intervention focuses on the components that enhance the person's ability to participate in eating and feeding ADLs that are valued and fulfilling to that person, such as eating independently, joining friends for lunch, and feeding a child. Occupational therapy practitioners include the family and others involved with the client in the intervention process. Interventions can include environmental modifications, positioning, use of adaptive equipment, feeding and swallowing strategies and remediation techniques, and client and caregiver education.

#### **Definitions**

For the purposes of this guideline, broad definitions are noted. *Feeding* is the term used to describe the process of bringing food to the mouth, "sometimes called *self-feeding*" (AOTA, 2014b, p. S19). *Eating* is defined as "keeping and manipulating food or liquid in the mouth and swallowing it. *Swallowing* is moving food from the mouth to the stomach" (AOTA, 2014b, p. S19). Feeding and eating, which are essential to human functioning for nourishment of the body, are forms of social interaction and are influenced by a person's culture, including food choices, rituals around eating, and the social meaning of eating. Thus, feeding,

<sup>&</sup>lt;sup>1</sup> Occupational therapists are responsible for all aspects of occupational therapy service delivery and are accountable for the safety and effectiveness of the occupational therapy service delivery process. Occupational therapy assistants deliver occupational therapy services under the supervision of and in partnership with an occupational therapist (AOTA, 2014a).

<sup>&</sup>lt;sup>2</sup> When the term *occupational therapy practitioner* is used in this document, it refers to both occupational therapists and occupational therapy assistants (AOTA, 2015a).

eating, and swallowing are strongly influenced by physiological, psychosocial, cultural, and environmental factors.

#### **Education, Training, and Service Delivery**

The academic curriculum includes the biological and physical sciences (e.g., anatomy, physiology, neuroanatomy, kinesiology) related to the structure and function of feeding, eating, and swallowing and the behavioral and social sciences (e.g., human development through the lifespan and human behavior; Accreditation Council for Occupational Therapy Education [ACOTE], 2012). This curriculum provides the foundational skills for understanding impairments in feeding, eating, and swallowing. (Appendix A outlines the knowledge and skills occupational therapists and occupational therapy assistants acquire in their entry-level education.) Practitioners develop clinical reasoning skills to consider the interplay of physical, cognitive, emotional, environmental, and sociocultural factors in providing effective services for feeding, eating, and swallowing dysfunction. Third-party payers, including Medicare, have varying policies regarding the coverage of feeding, eating, and swallowing services when provided by occupational therapy practitioners ranging from full coverage to noncoverage. It is critical to challenge denials by third-party payers and demonstrate the advanced-level skills acquired and set forth in Appendix B.

Both occupational therapists and occupational therapy assistants have a role in advancing independence in feeding, eating, and swallowing. Occupational therapists are trained to conduct comprehensive evaluations, which include selecting, administering, and interpreting assessment measures, and to develop specific intervention plans and provide therapeutic interventions for integration of feeding, eating, and swallowing into the context of the client's daily routines. Occupational therapy assistants may gather data and administer selected assessment tools or measures for which they have demonstrated competence (AOTA, 2014a, 2015b). Both occupational therapists and occupational therapy assistants select, administer, and adapt activities that support the intervention plan.

Occupational therapy practitioners work in many settings, including neonatal intensive care units, inpatient acute care and rehabilitation hospitals, outpatient departments and clinics, skilled nursing facilities, mental health facilities, community centers, hospices, and schools. Occupational therapy practitioners address feeding across the lifespan. They work with infants and parents with breastfeeding and bottle feeding, moving them through the developmental stages into solid foods and thin liquids. For people who receive nutrition through enteral feeding, occupational therapists work with the treatment team to help clients transition from tube feeding if medically appropriate or to help them incorporate their tube feedings into their daily lives and social interactions. Occupational therapists work with older adult clients who lose the ability to eat solid foods and thin liquids safely because of a variety of conditions related to aging, dementia, or other medical issues. Interventions with this population include providing adaptive equipment, techniques, and strategies to help the person continue to safely eat and drink.

#### Role of the Entry-Level Occupational Therapist

The occupational therapist with entry-level practice skills has the basic knowledge and skills to provide occupational therapy services to clients with eating and feeding dysfunction. Entry-level knowledge and skills for occupational therapy practitioners, as supported by the 2011 ACOTE standards (ACOTE, 2012), include providing feeding, eating, and swallowing interventions to enable performance (including the process of bringing food or liquids from the plate or cup to the mouth, the ability to keep and manipulate food or liquids in the mouth, and swallowing assessment and management) and training others in precautions and techniques while considering client and contextual factors.

During their education and training, occupational therapists develop specialized skills in activity analysis and synthesis, allowing them to consider the interplay of physical, environmental, and sociocultural factors in providing effective services to people with eating and feeding dysfunction. As part of a comprehensive evaluation, occupational therapists select, administer, and interpret assessment measures; develop an intervention plan; and provide therapeutic intervention. Specifics related to evaluation and intervention can be found in Appendix A.

#### Role of the Advanced-Level Occupational Therapist

The occupational therapist with advanced-level practice skills in feeding, eating, and swallowing has expanded depth and specificity of knowledge related to evaluation and intervention. This knowledge includes administering more complex assessments and providing interventions for clients who are medically fragile or who have complicated diagnoses or conditions resulting in feeding, eating, and swallowing problems. In populations with complicated feeding and swallowing problems, such as postsurgical cancer patients, patients in intensive care units, or infants, the interplay of medical and developmental factors is complex and requires specialized knowledge to provide safe and effective service. Specifics related to advanced-level evaluation and intervention can be found in Appendix B.

Occupational therapists with advanced-level practice skills contribute to the development of new and innovative approaches to evaluation and intervention. They may develop skills for instrumental evaluations relevant to their area of practice. These skills may include, but are not limited to, videofluoroscopy, cervical auscultation, ultrasonography, fiber-optic endoscopy, scintigraphy, manometry, electromyography, and other instrumental evaluations.

#### Role of the Entry-Level Occupational Therapy Assistant

During the evaluation process, occupational therapy assistants may gather data and administer selected assessment tools or measures for which they have demonstrated competence (AOTA, 2014a). During intervention, occupational therapy assistants select, administer, and adapt activities that support the intervention plan developed by the occupational therapist. These activities are consistent with the occupational therapy assistant's demonstrated competency and delegated responsibilities (AOTA, 2014a). Specifics related to evaluation and intervention by entry-level occupational therapy assistants can be found in Appendix A.

#### Role of the Advanced-Level Occupational Therapy Assistant

The occupational therapy assistant with advanced-level knowledge and skills has built on foundational education and training in the eating process for the purpose of providing more comprehensive interventions. The occupational therapy assistant with advanced-level practice skills has gained extensive knowledge and experience in the feeding, eating, and swallowing needs of specific client populations or clients in specific settings. The increased depth of knowledge allows the occupational therapy assistant to provide services to clients who are more medically fragile or whose problems or needs are more complex than those addressed by the occupational therapy assistant with entry-level practice skills. The occupational therapy assistant with advanced-level knowledge may assist the occupational therapist in carrying out instrumental swallowing evaluations. Specifics related to evaluation and intervention by advanced-level occupational therapy assistants can be found in Appendix B.

### **Supervision Considerations**

Occupational therapists and occupational therapy assistants with entry-level practice skills or who have had limited opportunities for hands-on experience with feeding, eating, and swallowing management should seek supervision and mentoring from a more experienced occupational therapist. The amount of supervision provided to an occupational therapist or occupational therapy assistant in the area of feeding, eating, and swallowing should directly relate to his or her training and experience and state practice acts. Occupational therapists and occupational therapy assistants may also supervise other nonlicensed health care aides providing feeding and eating assistance to clients (AOTA, 2014a).

The occupational therapist has the primary role in evaluation and intervention planning; the occupational therapy assistant collaborates with the occupational therapist in the provision of specific interventions (AOTA, 2014a, 2015b). Occupational therapy assistants who hold an AOTA specialty certification in feeding, eating, and swallowing may have a more active role in collaborating in the evaluation process and in making intervention decisions. However, it is understood that services are carried out under the supervision of an occupational therapist.

#### **Summary**

Occupational therapy practitioners have the education, knowledge, and skills to work with people across the lifespan who have feeding, eating, and swallowing challenges. Occupational therapists assess clients with a feeding, eating, or swallowing problem from a unique, holistic perspective, taking into account physiological, psychosocial, cultural, and environmental factors that support or interfere with this crucial ADL. Feeding and eating are carefully examined within the context and culture in which the activity typically takes place. In addition to individual intervention aimed directly at the specific feeding, eating, or swallowing problem, occupational therapy practitioners also adapt the environment to support safe eating habits, provide adaptive equipment, and educate families and others in the community.

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#### Acknowledgment

The Commission on Practice acknowledges the authors of the 2007 version of this document: Pam Roberts, MSHA, OTR/L, CPHQ, FAOTA; Marcia S. Cox, MHS, OTR/L; Susanne Holm, MS, OTR, BCN; Sharon T. Kurfuerst, MEd, OTR/L; Amy K. Lynch, MS, OTR/L; Linda Miller Schuberth, MA, OTR/L.

Adopted by the Representative Assembly Coordinating Council for the Representative Assembly 2017 Revised by the Commission on Practice 2016 Note. This revision replaces the 2007 document *Specialized Knowledge and Skills in Feeding, Eating, and Swallowing for Occupational Therapy Practice,* previously published and copyrighted in 2007 by the American Occupational Therapy Association in the *American Journal of Occupational Therapy, 61, 686–700.* https://doi.org/10.5014/ajot.61.6.686

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Citation. American Occupational Therapy Association. (2017). The practice of occupational therapy in feeding, eating, and swallowing. American Journal of Occupational Therapy, 71(Suppl. 2), 7112410015. https://doi.org/10.5014/ajot.2017.716S04

Appendix A.

Occupational Therapy Service Delivery in the Area of Feeding, Eating, and Swallowing

Assessment—Entry-Level Education Prepares Occupational Therapy Practitioners to Assess:	Occupational Therapist	Occupational Therapy Assistant (Based on the Establishment of Service Competency and Supervision by an Occupational Therapist)
Context		
Cultural components that affect feeding: utensils, food types, meanings and symbolism of food, mealtime practices and rituals, dietary restrictions	<b>✓</b>	<b>√</b>
Attitudes and values of client, family or caregivers, and friends toward feeding and mealtime	✓	✓
Settings where feeding/eating takes place	1	✓
Social opportunities during mealtime that support or interfere with feeding/eating	✓	✓
Aspects of the client's developmental status or life phase that support or interfere with feeding/eating	✓	_
Effect of medical condition or disability status on feeding performance	<b>√</b>	_
Factors in the environment that support or interfere with feeding/eating (e.g., foods, seating, time, feeders)	✓	_
Preoral Phase	<del></del>	
Role of appetite and hunger sensation	✓	✓
Tactile and proprioceptive qualities of food and equipment in both the hands and the mouth	✓	<b>√</b>
Ability to see and locate food, drink, and utensils	✓	✓
Ability to appreciate smell (e.g., pleasant, noxious)	1	✓
Need for use of auditory cues (e.g., verbal cues, utensils hitting plate)	1	<b>√</b>
Ability to achieve a position of proximal postural control that allows upper-extremity and oral function for eating	✓	✓
Nature of communication during feeding or mealtime	1	✓
Feeding experience as satisfactory to self	<b>√</b>	✓
Ability to bring food to mouth as supported or prevented by factors such as figure—ground, depth perception, spatial relations, and motor planning	✓	_
Neuromotor components that support or interfere with adequate positioning	1	_
Upper-extremity function and hand-mouth manipulation adequate for self-feeding	· /	_
Influence of motor activity involved in bringing food to mouth	1	_
Ability to orient mouth to receive food (timing, positioning of structures)	1	_
Initiation of eating as supported or prevented by level of alertness or arousal, orientation to task, recognition, and memory	✓	_
Persistence with feeding as supported or prevented by level of arousal, attention span, initiation of activity, memory, and sequencing	· ✓	_
Carryover of skill to future feeding tasks as supported or prevented by level of memory, learning, and generalization	✓	_

Appendix A.

Occupational Therapy Service Delivery in the Area of Feeding, Eating, and Swallowing (cont.)

Assessment—Entry-Level Education Prepares Occupational Therapy Practitioners to Assess:	Occupational Therapist	Occupational Therapy Assistant (Based on the Establishment of Service Competency and Supervision by an Occupational Therapist)
Factors that influence willingness or unwillingness to eat (self-image, self-esteem, caregiver, family, feeder interaction, eating history, dying)	<b>√</b>	_
Oral Phase		
Behaviors or reports that indicate pain or discomfort in the oral area	1	✓
Behaviors that interfere with oral phase (e.g., spitting foods, pocketing foods, refusing to swallow)	✓	✓
Level of awareness of or sensation in the oral–motor area	1	<del></del>
Level of reception and perception of tactile (texture), temperature, proprioception, and gustatory qualities of food and utensils	1	_
Factors supporting and interfering with secretion management	1	_
Respiratory control factors that permit safe and efficient bolus manipulation (mouth breathing, acute respiratory distress syndrome, bronchopulmonary dysplasia), chronic obstructive pulmonary disease, cardiopulmonary compromise	1	_
Structural or neuromotor factors (reflexes, range of motion, muscle tone, strength, endurance) that support or interfere with oral–motor function	✓	_
Level of coordinated movements (praxis) of oral structures (cheeks, lips, jaw, tongue, palate, teeth) with or without food	✓	_
Oral structures' ability to work together to contain, form, and propel the bolus	✓	_
Bolus manipulation as supported or compromised by memory, attention span, orientation, or problem solving	✓	_
Speed of the oral phase adequate to support sufficient oral intake	1	_
Pharyngeal Pha	ise	
Behaviors, reports, or symptoms that indicate pain or discomfort localized in the pharyngeal area	1	_
Presence of signs and symptoms indicating possible pharyngeal dysfunction or clinical signs indicating possible aspiration (e.g., coughing, choking, tachypnea)	1	_
Esophageal Pha	ise	
Behaviors, reports, or symptoms that indicate pain or discomfort in the esophageal area	✓	_
Presence of refluxed material from the stomach into the esophagus, pharynx, or oral cavity	✓	_

## Appendix A. Occupational Therapy Service Delivery in the Area of Feeding, Eating, and Swallowing (cont.)

Occupational Therapists and Occupational Therapy Assistants Have Entry-Level Knowledge and Skills to:	Occupational Therapist	Occupational Therapy Assistant (Based on the Establishment of Service Competency and Supervision by an Occupational Therapist)
Instrumentatio	on	
Understand formal instrumentation used by therapists or other professionals		
to evaluate the oral, pharyngeal, and esophageal phase of the swallow,	,	
including, but not limited to, videofluoroscopy, ultrasonography, fiber-optic	•	<del>_</del>
endoscopy, scintigraphy, and manometry		
Discharge Planning (Addressed Througho	out the Intervent	ion Process)
Collaborate with the client, family, caregivers, and team members to formulate discharge needs	✓	_
Provide appropriate referrals, follow-up plans, and reevaluation related to discharge needs	✓	_
Develop and document discharge and follow-up programs and resources in accordance with discharge environment	✓	_
Provide for educational needs related to feeding, eating, and swallowing management and establishment of proficiency of recommendations with client and family	✓	_
mplement discharge and follow-up plan with client, family, caregivers, and team members to promote transition to discharge environment and integration of intervention management techniques	1	_
Terminate intervention when client has achieved optimal benefit from services	/	<u> </u>

Intervention—Entry-Level Education Prepares Occupational Therapists to Use the Following Interventions:	Occupational Therapist	Occupational Therapy Assistant (Based on the Establishment of Service Competency and Supervision by an Occupational Therapist)
Context		
Consider cultural practices in selection of foods and liquids, utensils, presentation of foods and liquids, and mealtime setting	✓	/
Provide environmental modifications to promote appetite and feeding/ eating/drinking performance (e.g., location, timing, seating, lighting)	✓	/
Use feeding/eating/swallowing activities appropriate for developmental status or life phase	✓	/
Facilitate social interactions that support feeding performance	1	✓
Plan intervention within the context of the person's medical condition, particularly considering specific restrictions and limitations, expected progression, and outcome	✓	_
Preoral Pha	se	
Facilitate olfactory stimulation	✓	✓
Provide verbal and physical cues	✓	1

Appendix A.

Occupational Therapy Service Delivery in the Area of Feeding, Eating, and Swallowing (cont.)

Intervention—Entry-Level Education Prepares Occupational Therapists to Use the Following Interventions:	Occupational Therapist	Occupational Therapy Assistant (Based on the Establishment of Service Competency and Supervision by an Occupational Therapist)
Use sensitization and desensitization techniques	✓	✓
Facilitate oral hygiene	✓	✓
Facilitate visual–perceptual activity and body schema awareness	✓	✓
ncrease awareness on affected or neglected side	✓	✓
Facilitate strategies to minimize visual field deficits and enhance acuity	✓	✓
Modify environment to enhance attention	✓	✓
Help client and caregiver develop problem-solving methods	✓	✓
Use communication strategies to increase participation in feeding	✓	✓
Use techniques to attain and maintain optimal level of arousal	✓	✓
Provide appropriate positioning and seating equipment	✓	✓
Provide nonnutritive oral stimulation, techniques, and exercises	✓	✓
Facilitate upper-extremity control and hand function (dexterity, strength, coordination)	1	✓
Facilitate oral–motor control through exercises, play, and games	✓	✓
mprove self-esteem to increase engagement in self-feeding	1	✓
Structure mealtime habits, routines, and rituals	✓	✓
mplement nutritional recommendations	✓	✓
Manipulate feeding schedule to facilitate hunger	1	_
Select, modify, and establish setup of mealtime equipment	✓	_
Facilitate postural control	✓	_
Fabricate upper-extremity orthotics	✓	_
Jse behavior modification or other behavior-based approaches	✓	_
Oral Phase		
Provide nonnutritive oral stimulation and exercises (jaw, lip, cheeks, tongue)	1	✓
Jse desensitization techniques	1	✓
Enable maintenance of appropriate position during mealtime (facilitate stability or movement)	1	✓
Time the introduction of food to facilitate coordinated respiration	✓	✓
Facilitate placement of food in mouth and use of utensils	✓	✓
Use verbal, written, or tactile cues to initiate, maintain, and follow through (chew, swallow) with feeding/eating task	1	✓
Provide an environmental modification program	✓	✓
Facilitate oral compensatory strategies for altered sensation, structure, or function	✓	_
Grade or alter qualities of bolus (e.g., texture, taste, temperature)	✓	_
Provide a behavior modification program		_

## Appendix A. Occupational Therapy Service Delivery in the Area of Feeding, Eating, and Swallowing (cont.)

Intervention—Entry-Level Education Prepares Occupational Therapists to Use the Following Interventions:	Occupational Therapist	Occupational Therapy Assistant (Based on the Establishment of Service Competency and Supervision by an Occupational Therapist)
Pharyngeal Pha	se	
Facilitate head and neck positioning for swallowing (e.g., chin tuck, head turns)	1	✓
Facilitate compensatory swallowing techniques	1	✓
Use neuromuscular electrical stimulation	1	_
Use other intervention techniques such as laryngeal elevation and other pharyngeal strengthening techniques and maneuvers	<b>√</b>	_
Esophageal Pha	se	
Modify position before, during, and after feeding task	1	_
Refer to other services when appropriate such as gastrointestinal physician; ear, nose, and throat specialist; dietitian; or allergist	1	_

### Appendix B.

## **Advanced-Level Occupational Therapy Practice**

Occupational Therapist	Occupational Therapy Assistant
Eating function—Occupational therapists with advanced-level knowledge and skills have built on the foundational knowledge of the eating process, thus enhancing the depth and specificity of evaluation and intervention. These occupational therapists have developed:  A. Extensive knowledge of anatomy and physiology and the phases of eating for the purpose of assessing structural, neuromotor, and sensory factors that support or interfere with function and of determining intervention strategies	I. Eating function—Occupational therapy assistants with advanced-level knowledge and skills have built on the foundational knowledge of the eating process for the purpose of providing more comprehensive intervention. These occupational therapy assistants have developed:      A. Advanced knowledge of anatomy and physiology and the phases of eating
Preoral phase     Oral phase     Pharyngeal phase     Esophageal phase	1. Preoral phase 2. Oral phase 3. Pharyngeal phase 4. Esophageal phase
B. Extensive knowledge of airway functions, including protective responses and respiratory control factors that affect swallowing and eating	B. Advanced knowledge of airway functions, including protective responses and respiratory control factors that affect swallowing and eating
I. Specialized client populations and settings—Occupational therapists with advanced-level knowledge and skills have gained extensive knowledge and experience in the feeding, eating, and swallowing needs of specific client populations or clients in specific settings. The increased depth of knowledge allows these occupational therapists to provide services to clients who are more medically fragile or whose problems and needs are more complex than those addressed by entry-level therapists. By developing expertise with specific client populations and settings, occupational therapists with advanced-level knowledge and skills not only provide services that represent best practice but also contribute to the development of new and innovative approaches to evaluation and intervention for those populations and settings. Areas of expertise that may be developed include:	II. Specialized client populations and settings—Occupational therapy assistants with advanced-level knowledge and skills have gained extensive knowledge and experience in the feeding, eating, and swallowing needs of specific client populations or clients in specific settings. The increased depth of knowledge allows these occupational therapy assistants to provide services to clients who are more medically fragile or whose problems and needs are more complex than those addressed by occupational therapy assistants with entry-level knowledge and skills. Areas of expertise that may be developed include:
A. Specific medical diagnoses	A. Specific medical diagnoses
<ol> <li>In-depth knowledge of diagnoses, including potential impact on feeding, eating, and swallowing</li> <li>Common medications used and their interaction with the feeding, eating, and swallowing process; advice regarding oral administration of medications (e.g., crushed meds, through nasogastric tube, or change to liquid suspension)</li> <li>Dietary needs or restrictions</li> <li>Specialized equipment that may be used and can affect feeding, eating, and swallowing (e.g., tracheostomy tubes, ventilators, feeding tubes)</li> </ol>	<ol> <li>In-depth knowledge of diagnoses, including potential impact on feeding, eating, and swallowing</li> <li>Common medications used and their interaction with the feeding, eating, and swallowing process</li> <li>Dietary needs or restrictions</li> <li>Specialized equipment that may be used and can affect feeding, eating, and swallowing (e.g., tracheostomy tubes, ventilators, feeding tubes)</li> </ol>

### Appendix B.

## **Advanced-Level Occupational Therapy Practice** (cont.)

Occupational Therapist	Occupational Therapy Assistant
B. Specialized settings such as general intensive care units and neonatal intensive care units (AOTA, 2014a)	B. Specialized settings such as intensive care units (AOTA, 2014a)
C. Specific developmental, social, and cultural factors	C. Specific developmental, social, and cultural factors
<ol> <li>In-depth knowledge of age-related expectations, such as feeding processes in infants and children and effects of aging on feeding</li> <li>Extensive knowledge of particular cultural groups and the influence of their customs on eating, particularly for people with feeding, eating, and swallowing problems</li> <li>Extensive knowledge of social and emotional factors that can influence feeding</li> </ol>	<ol> <li>In-depth knowledge of age-related expectations, such as feeding processes in children and effects of aging on feeding</li> <li>Extensive knowledge of particular cultural groups and the influence of their customs on eating, particularly for people with feeding, eating, and swallowing problems</li> <li>Extensive knowledge of social and emotional factors that can influence feeding</li> </ol>
III. Instrumental evaluation—Occupational therapists with advanced-level knowledge and skills may develop the following skills for instrumental evaluations relevant to their area of practice. These assessment techniques require specialized formal training and equipment. They may include, but are not limited to, videofluoroscopy, cervical auscultation, ultrasonography, fiber-optic endoscopy, scintigraphy, manometry, electromyography, and manufluorography.	III. Instrumental evaluation—Occupational therapy assistants with advanced-level knowledge and skills may develop the following skills for instrumental evaluations relevant to their area of practice.
A. Knowledge and application of instrumental techniques, including purpose, indications for use, limitations, reliability, and validity	A. Knowledge of instrumentation techniques, including purpose, indications for use, limitations, reliability, and validity
B. Ability to recommend appropriate instrumental evaluation	B. Ability to assist the occupational therapist in carrying out assessments
C. Collaboration with other professionals in carrying out the instrumental evaluation and interpretation of data	
D. Ability to independently carry out assessments, including interpretation of data and implementation of recommendations	
E. Ability to use assessment results effectively in evaluation and intervention	
IV. Specialized interventions—Occupational therapists with advanced-level knowledge and skills have knowledge of and skills in all existing intervention procedures in their specialty area and can provide the clinical judgment and rationale for selection of any procedure being used. They are aware of new interventions and potential applications from other fields. Skills may be developed in using specialized interventions that include, but are not limited to:	IV. Specialized interventions—Occupational therapy assistants who have advanced-level knowledge of and skills in specialized intervention procedures in their specialty area are able to implement intervention recommendations made by the occupational therapist. Skills may be developed in using specialized interventions that include, but are not limited to:
A. Interventions to facilitate oral performance, improve pharyngeal swallow, and potentially reduce the risk of aspiration, if present.  Use of these interventions is based on the results of instrumental evaluation of function, with safety of the client as a primary concern. Examples include:	A. Interventions to facilitate oral performance, improve pharyngeal swallow, and potentially reduce the risk of aspiration, if present. Use of these interventions is based on the results of instrumental evaluation of function, with safety of the client as a primary concern. Examples include:

## **Appendix B. Advanced-Level Occupational Therapy Practice** (cont.)

Occupational Therapist	Occupational Therapy Assistant
1. Compensatory swallowing techniques and strategies     2. Thermal or tactile stimulation     3. Grading or altering the bolus size and texture and changing consistency of liquids or route of administering	Compensatory swallowing techniques and strategies     Thermal or tactile stimulation     Grading or altering the bolus size and texture     Specialized positioning
medications orally 4. Specialized positioning	
B. Enteral feeding     1. Knowledge of purpose, types, indications, limitations, and precautions     2. Ability to integrate enteral feeding systems into the occupational therapy intervention plan     3. Ability to make recommendations regarding use of or need for enteral feeding systems	B. Enteral feeding     1. Knowledge of purpose, types, indications, limitations, and precautions
C. Oral appliances (prosthodontics)	C. Oral appliances (prosthodontics)
<ol> <li>Knowledge of purpose, indications, limitations, and precautions</li> <li>Ability to fabricate or collaborate on fabrication</li> <li>Client training and education</li> </ol>	Knowledge of purpose, indications, limitations, and precautions
V. Training and education—Occupational therapists with advanced-level knowledge and skills disseminate their knowledge and skills to others. Through formal and informal methods, occupational therapists with advanced-level knowledge and skills provide training and education to other occupational therapists, occupational therapy assistants, students, staff members, and professionals from other fields.	V. Training and education—Occupational therapy assistants with advanced-level knowledge and skills provide training and education to clients, family, and staff members in collaboration with an occupational therapist.