Entering Medical Speech-Language Pathology:

What the Novice Clinician Needs to Know

Friday, March 20th, 2020 Kelly Jones, MA, CF-SLP



Disclosures

- Financial: Employed by Henry Ford Health System as a Speech-Language Pathology Fellow
- Nonfinancial: N/A



Learning Objectives

- Participants will learn basic <u>medical etiologies</u>, <u>procedures</u>, <u>and terminology</u> frequently required for chart reviews and basic practices in acute care.
- 2. Participants will utilize <u>outside available resources</u> (i.e. online trainings and modules) to further their education.
- 3. Participants will learn how to apply for a medical speech-language pathology fellowship program or acute care position, including the process of seeking such programs and preparing for interviews.



Why the gap?

- 1. Training <u>in</u> graduate school
 - Programs in MI don't offer medical specialities or tracks
 - Standard dysphagia or neuroanatomy courses
 - Tuition costs of out-of-state/private universities
 - Trach/vent, pediatric feeding/swallowing, HNC
 - Limited clinical opportunities



Why the gap?

- 2. Training <u>after</u> graduate schoolPositions in IPR/SNF more abundant for new grads
 - Experience requirements
 - Limited specialized fellowship programs
 - Regional
 - Competitive



Speech Pathology in Acute Care

Caseload

Intensive Care Units - Medical, Neuro, Cardio/Cardiothoracic, Surgical

General Practice Units - Neuro stepdown, Internal Medicine, Infectious Disease, Telemetry, Oncology, Pulmonology, Surgical, Surgical Specialty

Etiologies: brain mass, stroke, encephalopathy, sepsis, liver failure, cardiorespiratory failure, lung transplant, cervical spine fusions



Caseload

- Clinical swallowing evaluation (CSE)
- Speech/language evaluation
- Videofluoroscopic Swallowing Evaluation (VFSS)
- Fiberoptic Endoscopic Evaluation of Swallowing (FEES)
- Passy-Muir Speaking Valve evaluation (PMV)
- Dysphagia therapy*



Typical Day

- 1) Order triaging
- 2) Caseload and chart reviews
- 3) Direct patient care
 - a) CSE prioritized based on NPO and possible need for VFSS scheduling
 - b) VFSS GI Radiology schedules
 - c) ?FEES, ?PMV
- 4) Documentation, communication throughout



Chart Reviews

- Key things to look for:
 - Order type*
 - Diet orders/NPO
 - Date of admission
 - General history
 - Previously seen by SLP?
 - Imaging
 - CXR, CT Head, MRI Brain
 - Oxygen Requirements
 - HFNC, BIPAP/CPAP
 - Mentation



Case Example 1 (Neuro)

- 59 y/o female
- Progressive R SNHL, vertigo and falls
- MRI: R cerebellopontine angle (CPA) mass concerning for vestibular schwannoma
- EVD, SOC resection, CN VII palsy
- ETT: total 2 days
- CXR: clear
- CTH: evolving post-op changes, including hypoattenuation of the pons
- NGT



Case Example 2 (PMV)

- 34 y/o male
- PMH: ETOH abuse, prior IVDU, chronic hep C
- Hospital course: sepsis, renal failure, encephalophathy, infectious tracheobronchitis
- ETT: 17 days
- Trach: Shiley #6 FEN cuffed
- Oxygen: 10 L/min trach shield, 40% FiO2
- CXR: clear
- PEG



Case Example 3 (GPU)

- 75 y/o female
- PMH: spinal surgery, sacral pressure ulcer,
 NPH, chronic foley
- AMS 2 mo, acute decline, tachycardic, tachypneic, sepsis + UTI
- CXR: clear
- CTH: prominence of lateral and third ventricles
- Lethargic
- Mechanical soft diet + TL



Clinical Swallowing Evaluations

- 1) Speak with RN/care partner for patient's functional status
- 2) Alertness and orientation
 - a) Informally assessing communication/language & speech/voice
- 3) Oral mechanism examination
- 4) Bolus trials
 - a) Medical appropriateness & clinical presentation
- 5) Update RN, team
 - a) Diet orders? Further testing?



VFSS

- SLP + GI Radiologist + Rad techs + RN
- GI Radiology suite
- Procedures may vary based on hospital policy
 - 1. Transfer pt into fluoroscopy chair
 - 2. Check frame positioning
 - 3. Provide bolus trials
 - 4. Compensatory strategies if needed
 - 5. Consider AP view nectar thick liquid
 - 6. Review exam with Radiologist









Speech-language Evaluations

- Intended for functional communication
- Differential diagnosis of aphasia and motor speech disorders
- Consist of informal tasks: yes/no, repetition, naming, speech sample, commands
- WAB-Bedside or MOCA
- Standardized assessments for evaluations prior to intraoperative language mapping
 - BDAE, CLQT



What I wish I knew...

- 1. Common medical etiologies and procedures
 - Neuro: ACA/MCA/PCA anatomy, MER thrombectomy, SOC - craniotomy, LP, angiogram, EVD, ICH, SDH
 - GI: SBO, ileus, GIB, EGD, esophagram, hemoptysis, esophagectomy, TE fistula, CP bar, GERD
 - Cardiac/Pulmonary: CHF, CAD, NICM, AAA, SOB, PTX, NSTEMI, PEA arrest, PE, ECMO, fibrosis, angina
 - ENT: DLB, RLN, XRT, LPR, epistaxis, CIS, PNI, anatomy
 - Other: s/p, OSH, LDA, TPN, POD, ETT



What I wish I knew...

- 2. Respiratory devices and oxygen delivery
 - I. Nasal cannula, Salter, HFNC
 - ${
 m II.}\ Venti-mask,$ non-rebreather
 - III. CPAP/BIPAP
 - IV. Endotracheal tube, ventilators





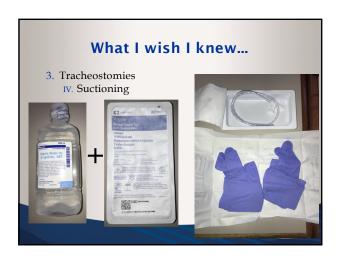






What I wish I knew... 3. Tracheostomies I. Types and features Inner, outer cannulas Cuffed, cuffless Fenestrated Color meanings I. Sizing Most common = 8 or 6 Pediatric = ≤ 4





F	Recommended Resources
	Henry Ford Hearth System

MBSImP

- https://www.northernspeech.com/mbsimp/Standardized protocol to score 17 components of swallowing on VFSS
- Oral = 6, pharyngeal = 10, esophageal = 1
- \$600, 2.1 ASHA CEUs
- Reduced costs for graduate students, email mbsimp@northernspeech.com, group rates
- Powerpoint available for facility funding



Passy-Muir Modules

- https://www.passy-muir.com/education
- Clinicians > Free courses > scroll down
- Aerodigestive and Respiratory Changes Post Tracheostomy: A Comprehensive Review
- Tracheostomy: Procedures, Timing, and Tubes
- Ventilator Basics for the Non-Respiratory Therapists
- Application of Passy Muir Swallowing and Speaking Valves
- Swallow Function: Passy Muir Valve Use for Evaluation and Rehabilitation



Human Anatomy Atlas 2020

- https://www.visiblebody.com/ anatomy-and-physiologyapps/human-anatomy-atlas
- App, \$24.99
- Region and system views, including:
 - Pharynx and larynx, expression and mastication, laryngeal muscles





Literature

- Pocket Reference of Diagnosis and Management for the Speech-Language Pathologist
 - Patricia F. White
- Motor Speech Disorders: Substrates, Differential Diagnosis, and Management
 - Joseph R. Duffy





Literature

- Coyle, J. L. (2014). Dysphagia following prolonged endotracheal intubation: Is there a rule of thumb? Perspectives on Swallowing and Swallowing Disorders (Dysphagia), 23(2), 80-86.
- Langmore, S. E., Terpenning, M. S., Schork, A., Chen, Y., Murray, J. T., Lopatin, D., & Loesche, W. J. (1998). Predictors of aspiration pneumonia: How important is dysphagia? *Dysphagia*, 13(2), 69-81.
- Langmore, S. E. (2017). History of fiberoptic endoscopic evaluation of swallowing for evaluation and management of pharyngeal dysphagia: Changes over the years. *Dysphagia*, 32(1), 27-38.
- Pearson Jr., W. G., Griffeth, J. V., & Ennish, A. M. (2019). Functional anatomy underlying pharyngeal swallowing mechanics and swallowing performance goals. Perspectives on Swallowing and Swallowing Disorders (Dysphagia), 4(4), 1-8.



Application for Fellowships and Transition into Acute Care
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1. Planning

- Shadowing/observationAttend conferences/seminars re: acute care topics or in-person CEUs
- Completion of certifications (i.e. MBSImP, BLS)
- Consider geographic location
 - Large acute-care hospitals typically urban
- Consider current financial, career, and personal positions
- Not an overnight process



2. Search

- Google search for fellowships
 Johns Hopkins, Henry Ford, Cleveland Clinic
 - Voice, HNC
- Direct websites for health systems
- Indeed, Glassdoor
 - o Consider PRN, look at requirements in listing
- Word of mouth, social media



3. Application

- Resume 1 page
 - Internships/positions: hospital, SNF, IPR, inpatient/outpatient, homecare, TBI/cog
 - Research, presentations
- Cover letter
 - Brief: previous experiences
 - Focus on: goals, specifics of facility, skills that match values
- Letters of reference
 - Individuals who can attest to *clinical skills*



4. Interview

- Standard topics:
 - Interest in field
 - Challenging patient/professional experience
 - Career goals
- Knowledge & skills:
 - o Differential diagnosis aphasia, MSDs
 - Cranial nerves, anatomy OME
 - PMV procedures/contraindications
- Tailor responses to position population if able
- If unsure, state how you would receive training



Review

- 1. Speech Pathology in Acute Care
- 2. Recommended Resources
- 3. Application for Fellowships and Transition into Acute Care



Questions?	
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