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AGENDA

- Introductions & Disclosures & Learning Outcomes
- Introduction of disorders & Prioritizing atypical parkinsonism
- Motor speech, language & cognition
- Swallowing & airway
- Integrated clinical case
- o Q&A

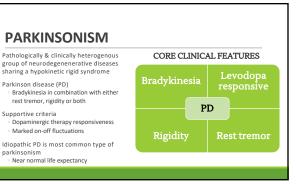
DISCLOSURES FINANCIAL NON-FINANCIAL Heather Clark Heather Clark Mayo Clinic Grant funds: NIH Royalties: ProEd Executive Board, ANCDS Michelle Troche Editorial Board, JSLHR Michelle Troche

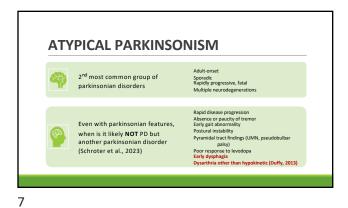
Salary: Teachers College, Columbia U
Grant funds: NIH Member: ASHA, DRS, ISARP Laura Purcell Verdun
• Member: ASHA CFCC, DRS Royalties: MedBridge ASHA registration waiver: ASHA ASHA Representative, CMS MACRA Episode-Based Cost Measures Clinician Expert Workgroup – Movement Disorders Laura Purcell Verdun Owner, Voicetrainer, LLC Lecturer, GWU SLHS Contributor: The MSA Coalition, CurePSP

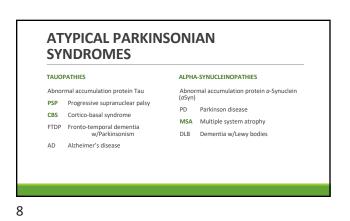
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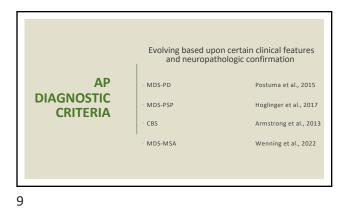
LEARNING OUTCOMES

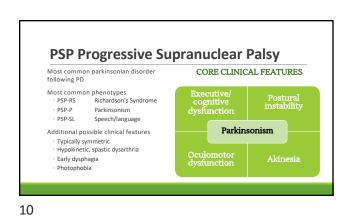
- Define diagnostic features of atypical parkinsonism (AP) vs. Parkinson disease to aid earlier identification
- Based upon clinical research presented, clarify why an integrated approach to communication and swallowing is indicated for atypical parkinsonism
- Identify and adapt preventive and rehabilitation management strategies for the communication and swallowing challenges associated with atypical parkinsonism

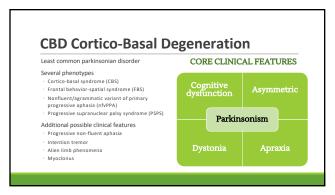


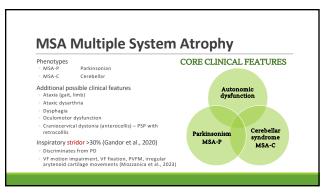


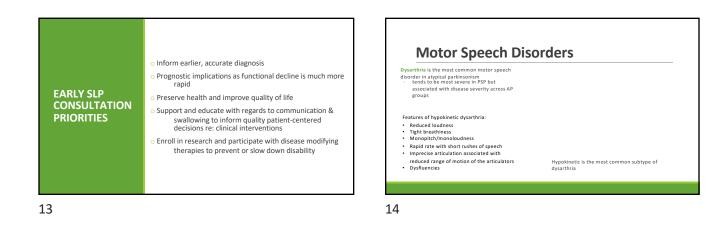


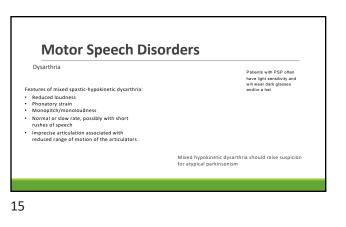


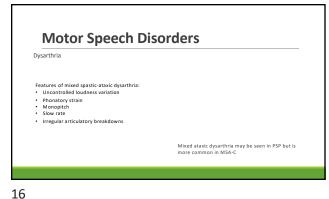


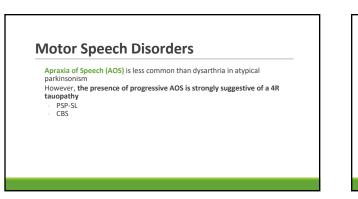


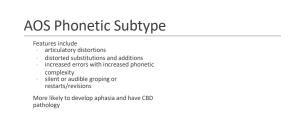


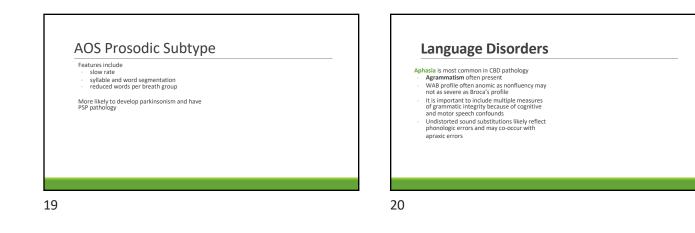


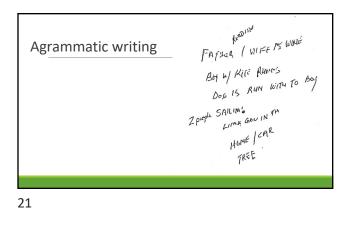


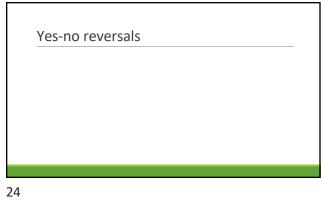


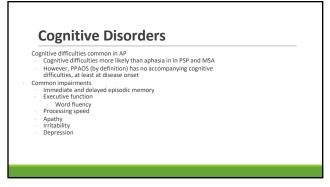


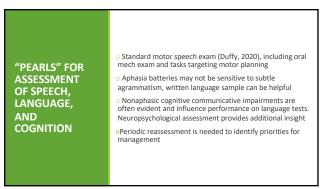


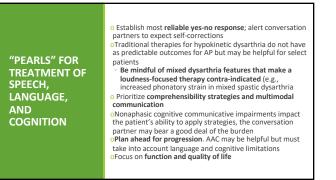












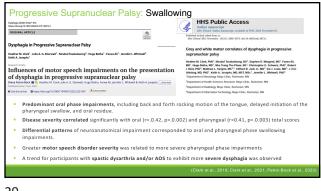
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Airway Protection

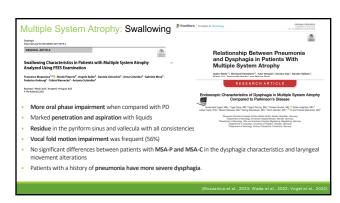
There are high rates of dysphagia and aspiration pneumonia in atypical PD

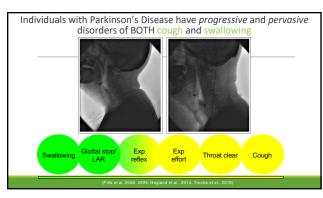
- Dysphagia is considered largely inevitable in atypical parkinsonism
- All phases of the swallow can be impacted by atypical parkinsonism
- There is marked heterogeneity in the presentation of swallowing-related dysfunction based on the distinct patterns of cortical and subcortical involvement, likely impacting swallowing in unique ways

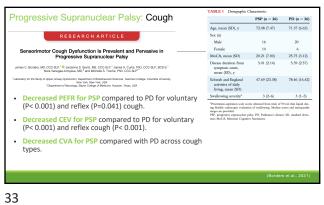
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Progressive Supranuclear Palsy vs PD: Swallowing .991 0023) 38:1342-1352 Male = 19 Female = 5 25.90 (3.21) 5.22 (2.59) Female=8 20.70 (6.81) 5.05 (2.19) ORIGINAL ARTICLE .002 Quantifying Impairments in Swallowing Safety and Efficiency in Progressive Supranuclear Palsy and Parkinson's Disease PSP-RS: 16 PSP-P: 7 PSP-F: 1 s C. Borders¹ . Jordanna S. Sevitz¹ - James A. Curtis¹ - Nora Vanegas-A -----.... 12 Across all thin-liquid boluses, individuals with PSP were more likely (OR=4.82; 90% CI: 1.25–12.73) to have deeper airway invasion (i.e., higher PAS scores) compared to PD h .H ...tu 30







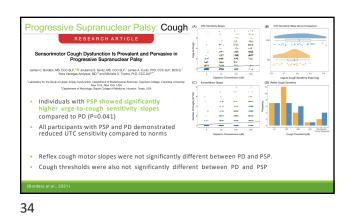
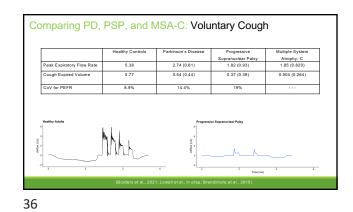
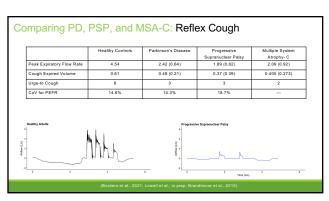
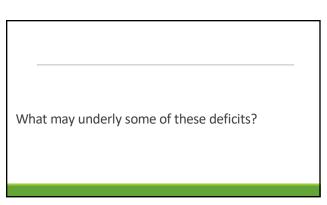
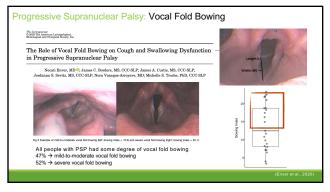


TABLE 1 Demographic C	Inaracteristics			
	PSP $(n = 26)$	PD (n = 26)		Overall
Age, mean (SD), y	72.08 (7.47)	71.37 (6.63)		(N=7)
Sex (n)			Sex	
Male	16	20	F	3 (42.9%)
Female	10	6	м	4 (57.1%)
MoCA, mean (SD)	20.21 (7.00)	25.75 (3.12)	Age	
Disease duration from symptom onset,	5.01 (2.14)	5.39 (2.57)	Mean (SD)	56.7 (6.82)
mean (SD), y			Median [Min, Max]	56.0 [47.0, 68.0]
Schwab and England activities of daily	47.69 (23.38)	78.46 (16.42)	SARA Score	
living, mean (SD)			Mean (SD)	20.2 (8.41)
Swallowing severity*	3 (2-6)	3 (1-5)	Median [Min, Max]	19.0 [10.0, 31.0]
'Penetration-aspiration scale sco			- Missing	2 (28.6%)
ng flexible endoscopic evaluatio				2 (28.6%)
ing flexible endoscopic evaluation of swallowing. Median scores and interquartile tranges are provided. PSP, progressive supranuclear palsy; PD, Parkinson's disease; SD, standard devia- tion; MoCA, Montreal Cognitive Assessment.			Total Number of Participants	
			MSA-C	7 (100%)

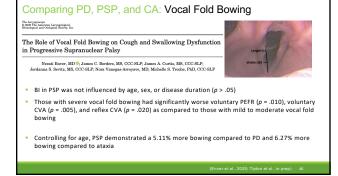


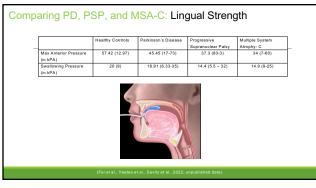


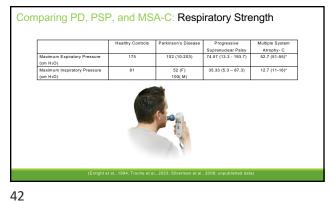








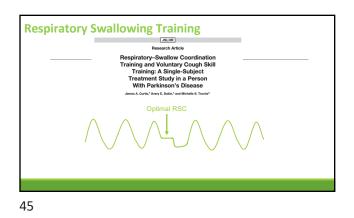


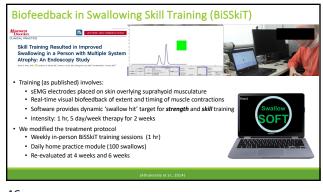




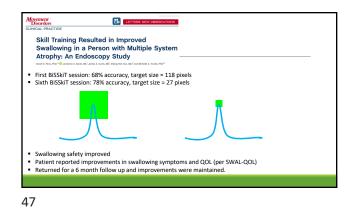


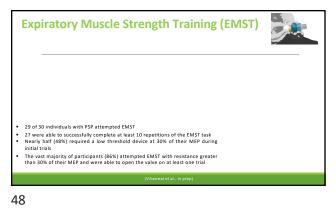


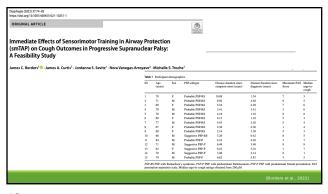


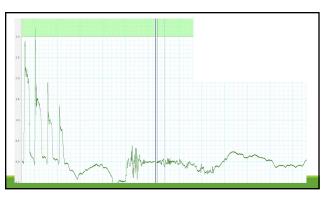




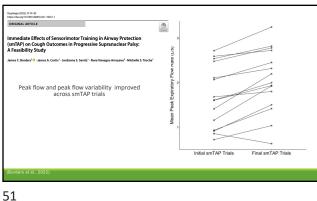


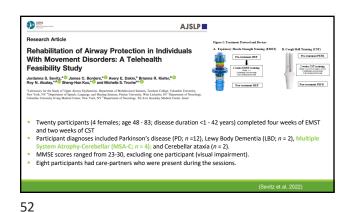




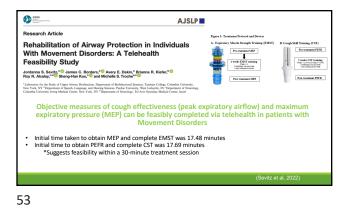


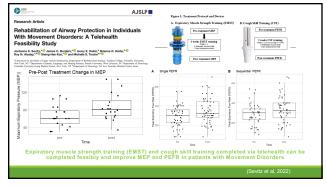
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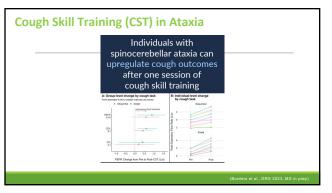








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Take-home message:

Treatment of airway protection can be feasible and efficacious in APD!!!

- There are multiple treatment modalities for swallowing and cough dysfunction which are feasible and show some immediate and sustained effects in people with APD.
- Biofeedback and strength training approaches for the upregulation of swallowing and cough function are both potential therapeutic modalities which should be further explored in APD
- However, people with APD will likely require additional cueing and modifications to usual training protocols
- We should consider the role of executive dysfunction and memory deficits and their intersection with airway protective treatment in APD.

11/16/2023



