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Dysphagia affects patients across the lifespan and has multiple causes, making the diagnosis and management of this disorder complex. Additionally, we are seeing rapid growth in our understanding of disease processes on cellular/molecular and genetic levels. Further, computer modeling, machine learning, 'big data' statistics, and improved imaging technology are rapidly changing our understanding of normal and disordered swallowing. This lecture will discuss the state of the science as it pertains to current clinical care. I will review emerging approaches that will likely be used in everyday practice within in the next ten years, including mobile technology and telehealth, high resolution manometry, and non-invasive brain stimulation. The approach to dysphagia management will rely more heavily on personalized and precision medicine based on quantifiable physiologic data that will be more readily available to the general clinician.



Michelle R. Ciucci, PhD, CCC-SLP is a neuroscientist and speech-language pathologist, presently Associate Professor of Communication Sciences & Disorders and Otolaryngology at the University of Wisconsin-Madison. Ciucci's lab employs neurotoxin and genetic murine models of Parkinson disease and tests the onset and progression of vocalization, tongue use, chewing, functional swallowing, olfaction, forelimb use, and gait deficits. The primary goals are to relate these behavioral deficits to the complex pathology of PD in order to improve pharmacologic and surgical interventions. Ciucci has authored over 55 peer-reviewed published scientific journal articles, 8 book chapters, and has given numerous invited national and international talks on her research and clinical experience. She has been funded by the National Institutes of Health, the Howard Hughes Medical Foundation, American Speech Language Hearing Foundation, and the Michael J. Fox Foundation for Parkinson's research. Her translational research program is directed understanding central nervous system mechanisms for sensorimotor control of vocalization, speech, and swallowing in health and neurologic disease.

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**Amphithéâtre – faculté de médecine, pôle recherche**

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