Alberta Health Services
Glenrose Rehabilitation Hospital

Research, Innovation & Technology Development

"Joining State-of-the-Art Research with State-of-the-Art Care"

Gabriela Constantinescu, PhD

- Co-Lead, Head and Neck Surgery Functional Assessment Laboratory (HNSFAL)
- Instructor, Department of Communication Sciences & Disorders, University of Alberta
- Chief Product Officer, True Angle Medical Technologies
- Research Affiliate, Glenrose Rehabilitation Hospital

Dr. Constantinescu is a researcher with experience in the assessment and treatment of speech, resonance and swallowing difficulties. In her doctoral work, she conducted research that stemmed from a true clinical gap: limited access to care for patients with swallowing difficulties. This work led to the design, development and evaluation of a mobile health solution, Mobili-T ™ , and an understanding of the important role that remote patient monitoring will play in shaping her field. Over that time she was the recipient of several awards, including Avenue Edmonton's Top 40 Under 40, the Clinician Fellowship from Alberta Innovates Health Solutions and the Dr. Alice E. Wilson Award from the Canadian Federation of University Women.

More recently Dr. Constantinescu has accepted the position of Chief Product Officer with True Angle Medical Technologies and lead in the Head and Neck Surgery Functional Assessment Laboratory (HNSFAL) at the Institute for Reconstructive Sciences in Medicine (iRSM). These two positions will allow her to complete implementation of Mobili-T (and other technologies) in a clinical setting.

Clinical Implications of Research:

Mobili-T may be used with patients routinely seen at the Glenrose Rehabilitation Hospital as well as other hospitals. These are patients who suffer from swallowing difficulties (dysphagia) as a result of stroke, traumatic brain injury, cancer etc.

Inspiration/Vision Statement:

All patients who need therapy will have access to it when they need it.

Recent Publications

Li P, **Constantinescu G**, Nguyen N -T, Jeffery CC. (2019). Trends in reporting of Swallowing Outcomes in Oropharyngeal Studies: A Systematic Review. *Dysphagia*, https://doi.org/10-1007/s00455-019-09996-7.

Constantinescu G, Kuffel K, King B. Hodgetts W, Rieger J. (2018). Usability Testing of an mHealth Device for Swallowing Therapy in Head and Neck Cancer. *Health Informatics Journal*. Doi.org/10.1177/1460458218766574.

Constantinescu G, Kuffel K, Aalto D, Hodgetts B, Rieger J. (2017). Evaluation of an Automatic Swallow-Detection Algorithm Using Visual Biofeedback in Health Adults and Head and Neck Cancer Survivors. *Dysphagia*. Doi:10.1007/s00455-017-9859-2.

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