CURRICULUM VITAE Maggie-Lee Huckabee, Ph.D.

Present Position:

- Distinguished Professor, Department of Communication Disorders, the University of Canterbury;
- Founding Director, The University of Canterbury Rose Centre for Stroke Recovery and Research at St George's Medical Centre and the Swallowing Rehabilitation Research Laboratory.
- Founding Director, Swallowing Technologies Ltd.

Website: <u>https://www.canterbury.ac.nz/rosecentre/</u> Facebook: <u>https://www.facebook.com/SwallowALot</u>

Education:

2001	Ph.D. awarded by The University of Memphis, Memphis, TN, USA;			
	Research conducted in Department of Neurology, University Hospital, Vienna, Austria; funded by			
	International Fulbright Fellowship			
1984	M.A., The University of Texas, Austin, TX, USA			
1980	B.S., East Texas State University, Commerce, TX, USA			
	(now Texas A&M University at Commerce)			

Professional Affiliations:

European Society for Swallowing and Swallowing Disorders

International Dysphagia Research Society

New Zealand Speech-Language Therapists' Association

Invited honorary member of Association of Scientists of Speech Pathology/Speech Therapy of Greece

MedTech Core Consortium for Medical Technology Device (CMTD) <u>https://www.cmdt.org.nz/about-the-medtech-</u>core/maggie-lee-huckabee/

Founder and Director, Swallowing Technologies Ltd. 2021

Academic Affiliations

2017-2020	Visiting Professor, Faculty of Medicine, KU Leuven, Belgium.
2016-current	Honorary Associate Professor in Faculty of Dentistry, The University of Otago
2014-current	Director, the University of Canterbury Rose Centre for Stroke Recovery and Research
2006-2017	Christchurch Neurotechnology Research Programme, Christchurch New Zealand.
2000-current	The University of Canterbury, Christchurch New Zealand.
	Distinguished Professor 2022-current; Professor 2015-2022; Associate Professor 2014-2015; Senior
	Lecturer 2000-2014
2004-2014	New Zealand Brain Research Institute, Christchurch New Zealand; served on Establishment
	Committee from 2002-2004.
1997, 1996	The University of Memphis. Adjunct clinical lecturer.
1991	The University of Texas. Austin, TX. Adjunct clinical lecturer.

Other Professional Work Experience

1996-1998 Research Assistant to Michael P. Cannito, Ph.D. on N.I.H. funded research grant. "Botox Influences on Adductor Spasmodic Dysphonic Speech".

1992-1995	Senior Speech - Language Pathologist/Dysphagia Specialist. Coordinator of Outpatient Accelerated Swallowing Program. Massachusetts General Hospital. Boston MA.
1991-1992	Senior Speech - Language Pathologist/Dysphagia Specialist. Rehabilitation Institute of Michigan. Detroit MI.
1987-1991	Supervisor of Speech - Language Pathology/Dysphagia Specialist. St. David's Rehabilitation Center. Austin TX.
1986-1991	Speech - Language Pathologist. Medical Personnel Pool and American Nursing Resources. PRN. Austin TX.
1987-1988	Speech - Language Pathologist. Travis State School PRIDE Infant Parent Training Program. Austin TX.
1985-1987	Speech - Language Pathologist. Oaks Treatment Center Residential Psychiatric Hospital. Austin TX.
1983-1985	Speech - Language Pathologist. Heart of Texas Mental Health Mental Retardation, Klaras Children's Center. Waco TX.
1980-1981	Speech - Language Pathologist, resource teacher. Schertz-Cibolo-Universal City ISD. Cibolo TX.

Present Research / Professional Specialty

Two research streams constitute my research programme, both related to swallowing impairment (dysphagia). The first stream focuses on increasing sensitivity and specificity of clinical and instrumental assessment methods. Included under this umbrella are comprehensive programmes of research evaluating cough reflex testing in clinical assessment and another programme of research evaluating the instrumental techniques of pharyngeal manometry and neuromuscular ultrasound. As the director of these research programmes, a series of post-graduate students have completed extensive research on validity and reliability of these assessment measures for translation to clinical practice. The second research stream is focused on rehabilitation of swallowing impairment primarily following stroke and other neurogenic diagnoses. This programme contains studies evaluating the influence of rehabilitation manoeuvres on pharyngeal biomechanics and neural transmission in healthy controls and patients with dysphagia. The uses of biofeedback modalities to enhance skill training in swallowing are emphasized and have allowed collaboration with Engineering colleagues to develop software platforms and other biomedical technologies for these applications, which will lead this year to the start-up company, Swallowing Technologies Ltd. My research programme is broadly multidisciplinary, with current engagement and post graduate student supervision in UC Departments of Electrical and Computer Engineering, and Economics, the School of Product Design and the Human Interface Technology Laboratory. I additionally co-supervise students from the University of Auckland Bioengineering Institute, and the University of Otago School of Anatomy. My research is also both laboratory- and hospital-based, supporting collaborations with several New Zealand DHBs. This has led to the application and successful receipt of two recent Health Research Council translational research grants in conjunction with these health systems. For the first, the ensuring research resulted in a decrease in pneumonia rates for NZ health boards from 28% to less than 10% across a three-year period. I consider the key to a good research programme to be research training. My laboratory supports a large group of student researchers, currently 7 PhDs, 3 MSc, and 4 undergraduate honours students. My PhD students (current and completed) average 2-3 manuscripts throughout the course of their degree. In 2014, I assumed leadership for the opening of the University of Canterbury Rose Centre for Stroke Recovery and Research, a multi-disciplinary research and clinical facility focusing on bioengineering applications for stroke rehabilitation. This clinical research facility allows for development of technology that is driven by clinical needs and end-user engagement. In 2021, I founded Swallowing Technologies Ltd, to transfer technologies from my research programme to the clinical community.

Honours/Distinctions:

2021	Royal Society Te Apārangi Academy MacDiarmid Medal for outstanding scientific research that demonstrates the potential for application to human henefit
2021	LegithTech Award for Post Translational Possarch, first runner up, Presented at combined
2021	Healthrech Award for Best Translational Research, first runner-up. Presented at combined
	Medlech Association of New Zealand / Medlech Core meeting, Auckland.
2021	Finalist for the University of Canterbury 2021 Student Choice Awards – College of Science
2021	Nominated by UC School of Psychology, Speech and Hearing for University of Canterbury
	Research Medal
2021	Nominated by UC for NZ Women of Influence Award in Innovation, Science and Health
2020	Finalist in the HealthTech Supernode Challenge; Received award for 'Best Canterbury Health Tech
	Solution' for BiSSkApp – Engineering Solutions for Swallowing Recovery

2020	Nominated by UC School of Psychology, Speech and Hearing for University of Canterbury Research Medal				
2020	Nominated for New Zealander of the Year Award, Category: Innovator of the Year				
2019	Braveheart Christchurch Award. https://www.braveheartchch.org/;				
	https://www.facebook.com/Braveheartchch/ (most viewed and shared video; 92K views)				
2019	Nominated for New Zealander of the Year Award, Category: Innovator of the Year				
2018	TEDx Christchurch Invited Speaker, October 2018, "Can you rehabilitate a reflex?"				
	https://www.tedxchristchurch.com/2018; https://www.tedxchristchurch.com/maggielee-huckabee				
2018	New Zealand Women of Influence Finalist in Science and Innovation.				
2018	Interviewed for RNZ Noon to 9 Programme:				
	https://www.rnz.co.nz/national/programmes/ninetonoon/audio/2018669956/relearning-the-				
	ability-to-swallow				
2018	Invited honorary member of Association of Scientists of Speech Pathology/Speech Therapy of				
	Greece				
2015	Invited to present University of Canterbury Commencement Address				
2014-2015	The University of Texas at Austin Moody College of Communication Outstanding Alumni.				
	https://moody.utexas.edu/news/dean-susan-king-receives-2015-dewitt-carter-reddick-award-				
	maggie-lee-huckabee-receives				
2014	The University of Canterbury, Innovation Medal - one of three top Research Medals at this				
	University.				
2014	The University of Canterbury, College of Science, Excellence in Research Linkages Award.				
2014	Grace Gane Memorial Lecture and Honour, New Zealand Speech Language Therapy Association				
	Annual Convention 2014.				
2013	Supreme Award in the Canterbury District Health Board Quality Improvement and Innovation				
	Awards Programme by the speech language therapy team for implementation of Cough Reflex				
	Testing research programme				
1987-current	Invited to provide 1 - 2-day workshops on research-based clinical practice in dysphagia				
	rehabilitation and neurophysiology. Approximately 6 workshops per year throughout Europe,				
	Middle East, Australasia and North America. Week-long intensive training courses in Hong Kong,				
	Singapore, Malaysia and New Zealand.				
2011-2015	Clinical Advisory Board for Phagenesis, Ltd.				
2002	University of Canterbury Teaching Award. University of Canterbury, Christchurch New Zealand.				
1998	Institute of International Education, Fulbright Student Scholarship Program Awardee for Academic				
	year 1998-1999.				
1998	The Dolan Family Foundation, Research Fellowship Awardee, March 1998 for Dissertation support				
	in Vienna Austria.				
1997	The University of Memphis, VanVieet Memorial Doctoral Fellowship Awardee				
1997	ASHA Foundation, Graduate Student Scholarship Awardee,				
1990	St. David's Renabilitation Center. Employee of the Month.				

Committee Work

Department Level: Department of Communication Disorders -> School of Psychology, Speech & Hearing

- 2021-ongoing Year 4 student co-coordinator
- 2017-2019 Chair: Erskine committee
- 2010-2021 Graduate Studies coordinator
- 2010-2015 Member: Research Committee
- 2007-2010 Year 4 student coordinator
- 2007-2010 Chair. Research committee
- 2005-2015 Chair: Erskine committee
- 2004-2019 Member: Erskine committee
- 2001-2006 Graduate Studies coordinator
- 2000-2001 Year one student coordinator

New Zealand Brain Research Institute (formerly the Van der Veer Institute):

2004-2006 Executive Management Team, Van der Veer Institute

2004-2006	Convenor of quarterly Brain Research Forum					
2004-2006	Team Leader: Motor Control Research Area					
2003-2004	Establishment Committee for Christchurch Brain Research Institute					
University Leve	l:					
2015-2017	Human Ethics committee					
2007-2016	Chair of Erskine Committee, Dept of Communication Disorders					
2004-2007	College of Science Research and Post-graduate committee					
2004-2005	IT representative for department					
2003-2004	Vice-Chancellors Appointee and Chair, Interim Board of Health Studies					
2002-2003	Interim Head of Department, Speech and Language Therapy					
National/Interr	national:					
2021-ongoing	Ministry of Business, Innovation and Science Research Assessment Panel					
2020-ongoing	Friedreich's Ataxia Research Alliance, International working group, to develop Friedreich's Ataxia					
	Consensus Clinical Management Guidelines. Led by Murdoch Children's Research Institute,					
	Melbourne. Manuscript pending.					
2019-ongoing	Multinational Parkinson's Disease working group to develop consensus guidelines for clinical					
	management. Led by University of Pavia, Italy. Manuscripts accepted for publication (1) and under					
	review (1).					
2017-ongoing	New Zealand Health Research Council Assessment Panel (varied panels)					
2016-2018	International Dysphagia Research Society – Board of Directors					
2015-2018	International Dysphagia Research Society – Chair, Membership Committee					
2015—ongoing	Editorial Board – Reviews in Physical Medicine and Rehabilitation					
2008-2010	Secretary, Health Research Society of Canterbury					
2007-2014	Editorial Board Journal of Medical Speech Pathology					
2006-2007	Editorial Consultant International Journal of Speech-Language Pathology					
2003-2005	International Dysphagia Research Society, elected to two-year term as councillor on the board					
2003	American Speech Language Hearing Association, selected as Chairperson of Programme Committee					
	in Swallowing and Swallowing Disorders, Chicago, Illinois					
1996, 1999	American Speech Language Hearing Association, served on Program Committee: Dysphagia					
	Diagnosis and Treatment					
1993-95	Elected to Massachusetts Speech and Hearing Association Executive Council as co-chair of					
	continuing education committee.					
1993-94	Massachusetts Speech and Hearing Association Government Affairs Committee member.					
1993	American Speech Language Hearing Association, Committee to develop graduate level curricula in					
	swallowing disorders					

Reviewer for:

International Dysphagia Journal American Journal of Speech Language Pathology Journal of Speech, Language and Hearing Research Head and Neck Clinical Neurophysiology Journal of Medical Speech Pathology Neurorehabilitation and Neural Repair Archives of Physical Medicine and Rehabilitation Journal of Rehabilitation Research and Development Journal of Oral Rehabilitation

RESEARCH RECORD

Awards/Grants:

April 2021 Auricular stimulation to improve cough sensitivity after stroke (Cakmak, Huckabee, Ng). \$180K. Health Research Council Discovery Grant.

Nov 2020	Radiation-free catheter guidance. (Avci, et al.) \$25K for 6 months. MedTech Core strategic projects grant.
Nov 2020	Biofeedback in Strength and Skill App (Huckabee ML). \$230K. Ministry of Business Innovation and Employment Tier 2 Pre-seed Accelerator Fund
Nov 2020	HealthTech Supernode Challenge – One of 22 finalists chosen from 128 applications to take part in
100 2020	intensive 6-week nre-accelerator programme: selected as one of 8 finalists to provide HealthTech
	pitch – awarded 'Best Solution from a Canterbury Team' for BiSSkApp rehabilitation device. \$10K.
Aug 2014-	Private Philanthropic funding to support Research and activities of the Rose Centre for Stroke
Ongoing	Recovery and Research. ~\$1.5M
Feb 2018	Guided Utility for Latency in Pharyngeal Swallowing (GULPS): A pharyngeal electrical impedance swallowing diagnosis and biofeedback system (Huckabee et al.) Med Tech Core.
Feb 2018	Skill-Based Dysphagia Therapy as an Intervention for Individuals with Huntingtons Disease (Gozdzikowska et al). \$12,000. New Zealand Neurological Foundation.
May 2017	Translation of ultrasound imaging to dysphagia diagnosis (Huckabee et al). \$250,000. Health Research Council New Zealand
Oct 2016	Patients-Engineers-Researchers-Clinicians: the PERC programme, \$40,000 for four years. Farina
0001010	Thompson Charitable Trust.
March 2016	Can we rehabilitate a reflex? A treatment protocol for the cough reflex. (Macrae, Huckabee).
Nov 2013	Incidence, Aetiology, and Pathophysiology of Pharyngeal Mis-sequencing in Dysphagic Patients with
luno 2012	The Effect of a Clinical Care Protocol on the Pate of Phoumonia in Patients (Huckabee, Davies, Fink)
Julie 2013	\$10 550. NZ Neurological Foundation
Διισ 2013	The relationship between oral bacteria and cough reflex sensitivity in patients with dysphagia
Aug 2013	following acute stroke (Huckabee, Davies, Fink, Tompkins), \$23,188,80, Ministry of Health Oral
	Health Research Fund
Sept 2009	Strength vs Skill Training in Swallowing Rehabilitation (Huckabee ML, Sella O, Jones, R), \$10,000
0000 2000	Canterbury Medical Research Foundation.
Aug 2009	Identifying aspiration and reducing pneumonia in acute stroke patients using cough reflex testing.
0	(McLauchlin H, Miles A, Huckabee, ML, Wong E, Barber A) \$91,500. Translational Research in
	Cardiovascular Disease, Diabetes and Obesity Research Proposal: HRC 09-658.
Jan 2007	Simultaneous EEG and fMRI recording Maglink System. (Jones, Poudel, Davidson, Huckabee).
	\$58,000 Lottery Grants Board, New Zealand
Jan 2005	Event-related Neuromuscular Electrical Stimulation for Swallowing Rehabilitation (Huckabee,
	Carroll, Fink) \$36,800 NZ. Neurological Foundation of New Zealand Small Project Grant.
Nov 2004	EEG and evoked potentials laboratory (Huckabee, et al.). \$56,218.00 Lottery Grants Board, New Zealand.
Nov 2002	Outcomes of Rehabilitation Programming for Neurogenic Dysphagia: A Controlled Trial (Langdon, Baxter, Huckabee) \$10,000 AUS, Fremantle Hospital Research Grant, Fremantle Australia
Aug 2002	U6523 University of Canterbury Research Grant, The Correlation Between Suprahyoid Muscle activity and Pharyngeal Pressure in Normal Young Adults, \$12,000.
Mar 2002:	Outcomes of Rehabilitation Programming for Neurogenic Dysphagia: A Controlled Trial (Van
	Lieshout, Steele, Huckabee) \$180,000 CAN. Heart and Stroke Foundation of Canada Grant-in-aid.
Dec 2001	Outcomes of Rehabilitation Programming for Neurogenic Dysphagia: A Controlled Trial (Sweeney,
	Holmes, Poole, Huckabee) \$10,000. Austin Hospital Medical Research Foundation Grant-in-aid.
Aug 2002	U6482 University of Canterbury Research Grant, Outcomes of Rehabilitation Programming for
Court 2001	Neurogenic Dysphagia: A Controlled Trial, \$20,000
Sept 2001	U6482 Outcomes of Renabilitation Programming for Neurogenic Dysphagia: A Controlled Trial
luna 2001	(Huckabee) \$20,000. University of Canterbury Internal Research Grant.
Julie 2001	E4709 Renaphilitation Programming for Neurogenic Dysphagia (Huckabee, Samsbury, Hilard, Wyles, Molloy, Wilson) \$26,200, Cantorbury, Medical Persoarch Foundation Project Creat
Apr 2001.	IVIOIIOY, WIISON 250,590. Canterbury IVIEUICAI Research Foundation Project Grant. R101/12 Outcomes of Rehabilitation Programming for Neurogenic Dychagia: A Controlled Trial
-γμ 2001.	(Yong Huckahee) \$25.047.20 Singapore Tan Tock Seng Hospital Singapore
Sept 2000	Health Link South toward establishment of swallowing research laboratory \$26,000

- Sept 2000: Geriatric Medical Research Trust toward establishment of swallowing research laboratory \$54,000.
- Aug 2000: 00spth2 University of Canterbury Equipment Grant toward establishment of swallowing research laboratory \$86,000.
- 1999-2004: Biofeedback Foundation of Europe. Research grant to evaluate efficacy of EMG biofeedback assisted dysphagia intervention.

Research Experience:

Ph.D.

Research Supervision as primary mentor (current cohort in bold)

1.	M Mills	2023-ongoing	Neural change associated with swallowing skill training
2.	A Foong	2022-ongoing	Biofeedback in Strength and Skill Training: a clinical trial of remote
3.	R Flynn	2021-ongoing	Biofeedback in Strength and Skill Training: a clinical trial of intensive
_			swallowing skill training in acute stroke
4.	L Strevens	2021-ongoing	RECAP: Risk Estimation Calculator for Aspiration Pneumonia – validity and reliability
5.	E. Hooson-Smith	2019-ongoing	Evaluating pharyngeal dynamics with manometry and electromyography
6.	D Dragicevich	2018-ongoing	The Contribution of Sensory Loss and Weakness to Dysphagia in Acute
_			Stroke
7.	M. Girod-Roux (Vallet)	2019-2022	Dysphagia post stroke: A prospective study on Evolution, Characterisation and impairment-based training
8.	E Burnip	2017-2021	Skill based rehabilitation in patients with Huntington's disease
9.	P Thomas	2016-2020	Strength vs Skill-based habilitation in patients with bulbar-type motor
10	K Winiker	2016-2019	Volitional modulation of the pharyngeal swallowing in healthy adults
11	S Kwong	2010 2019	Behavioural halloon dilatation for unner oesonhageal shhincter imnairment
12	K Nø	2013 2013	Clinical classification of strength versus skill deficits in in dysphagia
13.	K Erfmann	2014-2018	Influence of trancranial direct current stimulation on swallowing motor learning
14.	M Kalleson	2012-2016	Investigating the benefit of laryngeal cough reflex testing in the assessment of intensive care unit patients after orotracheal intubation.
15.	S Davies	2013-2016	Predicting and preventing aspiration pneumonia in patients with acute stroke and dysphagia
16.	K Lamvik	2013-2016	Modulation of spontaneous and volitional swallowing: Methodological and behavioural analyses
17.	O Apperley	2013-2015	Management of xerostomia following radiotherapy: a randomized, double blind, cross-over study of a novel emulsion for use as a saliva substitute. (PhDent; primary local supervisor; University of Otago Student)
18.	A Miles	2010-2013	Identifying Aspiration and Reducing Pneumonia in Stroke Patients using Cough Reflex Testing
19.	A Al-Toubi	2008-2013	The role of the primary motor cortex (M1) in pharyngeal swallowing.
20.	O Sella	2008-2012	Strength vs Skill training in dysphagia management
21.	N Abdul-Wahab	2007-2012	Modulation of Swallowing Behaviour by Olfactory and Gustatory stimulation
22.	P Macrae	2008-2012	Measurement of Biomechanical and Neurophysiological Change Associated with Swallowing Rehabilitation
23.	S Doeltgen	2006-2008	The Effects of Neuromuscular Electrical Stimulation of the Submental
~ •	1.1	2004 2000	Muscle Group on the Excitability of Corticobulbar Projections
24.	L LEOW	2004-2008	Iviechanisms of airway protection in Parkinson's disease
25.	в кепу	2003-2006	The Role of the Cerebral Cortex in the Coordination of Respiration and Swallowing in Humans
26.	M Dimov	2001-2007	Profiling of oro-pharyngeal dysphagia – Etiological correlates and associated outcomes (not completed)

MSLT/MSc				
1.	N Zwarts	2023-2024	The Test of Masticating and Swallowng Solids – Development of an expanded normative database	
2.	S Vijayan	2020-2021	Reliability of Ultrasound Measurement using Image Enhancement Software	
3.	R Streith	2019-2020	Role of visual feedback in modulating floor of mouth muscle activation.	
4.	G Holland	2019-2020	Oral Stereognosis in healthy adults and association with functional swallowing measures.	
5.	J Chittleborough	2018-2020	Validity of clinician judgements of cough strength to physiological measures.	
6.	L Hay	2017-2019	Acoustic of cough as a proxy for strength and effectiveness	
7.	B Hammond	2017-2019	Ultrasound imaging in clinical dysphagia assessment	
8.	S Lim	2015-2017	Variability and trial effect of tidal breath, dose response cough reflex testing	
9.	WT Ng	2015-2016	Validation of the Test of Mastication and Swallowing of Solids against the videofluoroscopic swallowing study	
10.	C Mills	2015-2016	Clinical assessment of reflexive cough strength	
11.	E Wallace	2016->PhD	Validation of clinically applicable measure of cough strength against videofluoroscopic evidence of airway clearance; Transfer to PhD	
12.	K Winiker	2016->PhD	Volitional modulation of the upper oesophageal sphincter in healthy adults; Transfer to PhD	
13.	A Emslie	2013-2015	Validation of the Test of Masticating and Swallowing Solids (TOMASS) in Parkinson's disease	
14.	W Cossou	2013-2015	The association between reduced cough reflex sensitivity and aspiration pneumonia in nursing home patients	
15.	H Kelly	2012-2014	The effect of titrated fentanyl on swallowing respiratory coordination and cough response in healthy participants	
16.	H How	2011-2012	The Influence of Different Modalities in the Interpretation of Cough Reflex	
17.	S Davies	2011-2012	The influence of a jaw opening exercise (JOE) on 2D submental muscle area and anterior hvoid excursion in healthy adults.	
18.	R Athukorala	2011-2012	Skill Training for Swallowing Rehabilitation in Individuals with Parkinson's Disease	
19.	S Moore	2010-2012	A correlational study of cough sensitivity to citric acid and radiographic features of airway compromise	
20.	M McFarlane	2010-2012	Changes in Laryngeal Cough Threshold Sensitivity and PAS (Penetration Aspiration Scale) Score Within the Acute Post-Stroke Stage	
21.	C Winkelman	2009-2010	Variability in Ultrasound Measurement of Hyoid Displacement and Submental Muscle Size Within and Across Sessions Using Two Methods of Data Acquisition in Healthy Participants	
22.	E Necus	2008-2010	sEMG Biofeedback As A Tool To Improve Oral Motor Control and Functional Swallowing In School Age Children With Cerebral Palsy: a Case Series.	
23.	M Monroe	2008-2009	Citric Acid Inhalation Cough Challenge: Establishing Normative Data.	
24.	S Broadmore	2007	Pre-motor planning of the oral phase of swallowing in Parkinson's Disease Pre and Post Swallowing Therapy: A methodological pilot investigation of The Bereitschaftspotential (withdrawn)	
25.	L Flanagan	2006-2007	Validity of 3-part criteria for differentiating between delayed pharyngeal swallowing and premature spillage secondary to poor orolingual control on videofluoroscopy	
26.	C Erne	2007-2008	Monitoring natural progression of dysphagic symptoms in stroke	
27.	P Macrae	2007->PhD	Investigating cortical contribution to motor planning of volitional and reflexive swallows using the Bereitschaftspotential. Transfer to PhD	
28.	I Low	2004-2005	A study of variability in clinical surface electromyography recording of submental muscles activity in healthy participants	
29.	S Doeltgen	2004-2005	Evaluation of Pharyngeal Surface-EMG Measures During Swallowing Manoeuvres	

30. 31.	U Witte L Ragg	2004-2005 2003-2004	Variability in pharyngeal Surface-EMG measures as a function of bolus The Role of the Cerebral Cortex in the Coordination of Respiration and Swallowing in Infants
22	S Sharma	2002-2003	The influence of Taste of Swallowing Appeal
22. 22	B Kolly	2002-2003	A methodological analysis of the dual task paradigm as a measure of
55.	D Kelly	2002-2003	corobral dominance of swallowing
21	P Mustaffa Kamal	2002 2002	Profiling of Dysphagia of Patients Admitted to a Stroke Ward: A
54.	N WUStand-Namai	2002-2003	Promiting of Dyspitagia of Patients Admitted to a stroke ward. A
25	S Eitzgerald	2000-2002	Reconstruction of Muscle Strength with and without Riofeedback During
55.	5 Fitzgeralu	2000-2002	Swallowing and Eist Clonching Tasks In Dationts With Dysphagia
20	TCoomhoo	2000 2001	Swallowing and Fist clenching Tasks in Patients with Dysphagia
30.	T Coombes	2000-2001	Repeatability of the acoustic swallowing pattern in normal subjects
The	esis only German ex	change students	
1.	E Schurmann	2007-2008	The influence of olfaction on swallowing-respiratory coordination and
			submental muscle contraction (Munich)
2.	S Bauer	2009-2010	The effects of exercises on suprahyoid muscles and hyoid movement
			swallowing in healthy individuals: investigation by ultrasound (Bielefeld)
3.	F Heck	2010-2011	Immediate and longer-term effects of submental neuromuscular electrical
			stimulation (NMES) on pharyngeal pressure generation in healthy adults.
			(Bielefeld)
BSL	T /BSLP Honours		
1.	A Low	2023-ongoing	Reliability of ultrasound measurements of swallowing using handheld
			portable ultrasound device
2.	X Teng	2021-2022	Swallowing Skill Training for paediatric dysphagia associated with
			cerebral palsy
3.	M Mills	2021-2022	Test of Mastication and Swallowing Solids App – validation of an app for
			test administration
4.	B Craythorne	2021-2022	Vibratory stimulation of superior laryngeal nerve in modulating
			swallowing frequency
5.	N Shackelton	2021-2022	Maori and Pacifica peoples experiences of dysphagia and speech language
			therapy services following stroke
6.	J Raemaki	2021-2023	Experiences of Māori and Pasifika peoples with swallowing disorders
			secondary to cerebral palsy
7.	P Mossop	2018-2019	Patterns of swallowing skill acquisition in patients with motor neuron
_			disease
8.	R Wilson	2018-2019	Development of normative dataset in healthy elders using neuromuscular
~			ultrasound for assessment of swallowing
9.	C Phipps	2018-2019	Evaluation of ethnicity as a variable in swallowing physiology
10.	P Silvarajan	2018-2019	Use of neuromuscular electrical stimulation in swallowing rehabilitation: a
	E 11. 1.	2017 2010	systematic review
11.	Е Намке	2017-2018	Comparison of swallowing measures from two ultrasound devices
12.	S Adams	2016-2017	The Test of Mastication and Swallowing Solids – Paediatric (TOMASS-P):
4.2		2016 2017	Establishing normative data
13.	M Westley	2016-2017	Exploratory study of skill-based learning in patients with motor neuron
		2014 2015	disease
14.	L Fuller	2014-2015	Normative data for the Test of Mastication and Swallowing of Solids: A
	5.44 · · ·	2042 2044	comparison of two biscuit brands
15.	D Waterhouse	2013-2014	Effect of cough reflex testing in nurse dysphagia screening
16.	C Sampson	2013-2014	validation of cough reflex testing to VESS
1/.	K UMDIER	2013-2014	Bacterial development in nebulization for cough reflext testing
18.	A EastWood	2013-2014	Etimicity in swallowing pathophysiology
19.	к пппеу	2013-2014	coordination of cough and respiration: differential identification of
20	TNAclassa	2012 2012	renexive VS VUILIUII COURT
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21. C Kengmana	2012-2013	Pharyngeal Stimulation paired with Behavioural Rehabilitation of pharyngeal mis-sequencing: A Pilot Study
22. W Fletcher	2012-2013	Pharyngeal Stimulation paired with Behavioural Rehabilitation of pharyngeal mis-sequencing: A Pilot Study
23. R Bennett	2011-2012	Citric acid inhalation cough challenge: Normative data for under 60 population
24. K Manco	2011-2012	Citric Inhalation Cough Reflex Testing: Normative Data for over 60 population
25. A Nicholas	2011-2012	Development of a pharyngeal impedance biofeedback device for swallowing rehabilitation (ENG)
26. B Han	2009-2010	An electrical-impedance biofeedback instrument for swallowing rehabilitation
27. A Collings	2009-2010	Normative Data for Temporal Measures of Pharyngeal Pressure Using Manometry
28. B Hagar	2009-2010	Measurement of Pharyngeal Manometric Data: a Methods Study
29. R Roetts	2009-2010	Clinical measurement of a Four Channel Pharyngeal Surface-EMG catheter under two swallowing conditions: Non-effortful and Effortful Swallowing
30. A Abu-Hijleh	2008-2009	The effects of swallowing on motor evoked potentials at the submental muscle group.
31. A Al-Toubi	2008-2009	Intrasubject reproducibility of the Bereitschaftspotential associated with volitional swallowing
32. E Nijhof	2008-2009	The influence of olfaction and gustation of surface electromyography of the submental muscles during swallowing.
33. F Gumbley	2004-2005	Evaluation of Pharyngeal Surface-EMG Measures as a function of bolus size

Research Supervision as secondary supervisor (current cohort in bold)

1.	H Mander	2021-ongoing	RECAP: Development of Machine Learning Algorithm for the Risk Estimation Calculator for Aspiration Pneumonia (PhD, Electrical and Computer Engineering)
2.	J Borjas	2021-ongoing	Validation of Colombian version of Test of Masticating and Swallowing Solids (PhD, Rosario University, Bogotá, Colombia).
3.	S Duncan	2021-ongoing	Rehabilitation of Dysphagia: Estimating Cost Avoidance (PhD, Econ)
4.	K Miller	2020-ongoing	Non-invasive Electromyography Recordings for Assessing Swallowing
			(PhD, Eng, University of Auckland)
5.	L Cross	2020-ongoing	Voice and swallowing impairment in patients with chronic cough (PhD)
6.	N Chesney	2021-2023	Subpixel displacement analysis of video recording of swallowing:
			validation to Videofluoroscopic findings. (MSc in Anatomy, University of Otago).
7.	K Darrock	2019-2022	Cough rehabilitation following stroke (PhD)
8.	R McGurk	2018-ongoing	Development of biofeedback device for pharyngeal swallowing using pharyngeal impedance measurement (MEng)
9.	J McSkimming	2020-2021	Estimating the Economic Costs of Neurological Impairment (PhD, Econ)
10.	E Wallace	2016-2019	Can a reflex be rehabilitated? Rehabilitation of cough reflex (PhD)
11.	M Kornisch	2012-2015	Estimates of cerebral lateralisation and hemispheric asymmetry in multilingual people with developmental stuttering (PhD)
12.	A Lippitt	2013-2015	Clinical biofeedback application for swallowing rehabilitation (MEng)
13.	C Chester	2012-2014	Electrical impedance biofeedback for swallowing rehabilitation (MEng)
14.	R Kaipa	2009-2012	Effect of principles of motor learning on speech and nonspeech motor learning (PhD)
15.	Ј Тау	2008 -2009	National University of Singapore Department of Speech Pathology, Intra- oral Tongue Pressure Measures of Amplitude, Duration and Latency in Swallowing for Normal Adults (MSc)
16.	J. Marchant	2005-2006	Treatment of articulatory impairment in a child with spastic dysarthria associated with cerebral palsy (MSc)

Summer research studentships

1.	A Brooks	2019	Tele-ultrasound Video Processing Algorithms for Automated Segmentation and Quantification of Image Features
2.	C Urban	2019	BiSSkApp (Biofeedback in Strength and Skill Training App): Development of
	an app		based rehabilitation tool
3.	K Kashore	2019	RECAP: Risk Estimation Calculator for Aspiration Pneumonia
4.	H McKechnie	2019	GULPS: Enhancement of the current hardware prototype
5.	C Phipps	2018	Expanding ultrasound assessment of swallowing
6.	P Silvarajan	2018	Use of neuromuscular electrical stimulation in swallowing rehabilitation: a systematic review
7.	E Hawke	2016	Investigating vibrotactile stimulation to facilitate swallowing frequency
8.	L Bakker	2016	Ultrasound assessment of swallowing: preliminary norms
9.	P Thomas	2015	The Test of Masticating and Swallowing Solids (TOMASS): Validating behavioural observations of swallowing behaviour to objective instrumental assessment.
10.	M Curry	2014	TOMASS: Establishing reliability
11.	R Tinney	2013	Effect of coughing and swallowing and patterns of respiration
12.	L Fuller	2013	Keep Calm and Swallow On: An application for dysphagia education
13.	W Fletcher	2013	Pharyngeal stimulation as a potential rehabilitation device for dysphagia
14.	C Kengmana	2013	Pharyngeal stimulation as a potential rehabilitation device for dysphagia
15.	A Nicholas	2011	An electrical-impedance biofeedback instrument for swallowing rehabilitation
16.	T McIntosh	2011	TOMASS: Establishing normative data for the Test of Mastication and Swallowing Solids
17.	B Han	2009	BiSSkiT: development of skill training biofeedback software for swallowing rehabilitation
18.	J Corbett	2008	Transcranial Magnetic stimulation induced motor evoked potentials from the submental muscle group in young adults with spastic and dystonic cerebral palsy and age and gender matched controls: a pilot study
19.	H.T. Chen	2007	Influence of Catheter Diameter on Measurement of Resting and Deglutitive Manometric Pressures at the Upper Oesophageal Sphincter.
20.	P Behnami	2007	Development of Normative data set for pharyngeal manometry
21.	A Abu-Hijleh	2006	The Influence of olfaction on swallowing-respiratory coordination and submental muscle contraction
22.	A. Lim	2005	A pilot study of respiration and swallowing integration in Parkinson's disease: on and off levodopa.
23.	S Jit	2003	The Relationship between Submental SEMG Measurement and Pharyngeal Pressures during Normal and Effortful Swallowing
24.	A Manna	2003	Cultural Issues Influencing Dysphagia Management Practices in New Zealand Maori: A Descriptive Study
25.	M Bryant	2001	Perception of Muscle Strength with and without Biofeedback During Swallowing and Fist Clenching Tasks in Normal Elders

Active UC Research Collaborations

College of Science: Dr Phoebe Macrae Esther Guiu Hernandez: Rose Centre Eric Knapp: Rose Centre Lucy Greig: Rose Centre

College of Engineering

Assoc Prof Paul Gaynor: Electrical and Computer Engineering Dr Le Yang: Electrical and Computer Engineering Prof Ramakrishnan Mukundan: Computer Science and Software Engineering

Dr Adrian Clark: School of Product Design Dr Euan Coutts: School of Product Design Stephan Lukosch: Human Interface Technology Lab

College of Business and Law Dr Philip Gunby: Economics and Finance Assoc Prof Andrea Menclova: Economics and Finance

Active National and International Research Collaborations

Dr Mike Epton: Respiratory Medicine CDHB, Christchurch Dr Malina Storer: Respiratory research, Christchurch Prof Leo Cheng: Auckland Bioengineering Institute, Auckland Recep Avi PhD: Auckland Bioengineering Institute, Auckland Rebecca Hammond: Waitemata District Health Board, NorthShore Auckland Mauro Farella PhD: University of Otago, New Zealand Yusuf Cakmak PhD: University of Otago, New Zealand Ulrike Frank PhD: University of Potsdam, Potsdam Germany Steffi Duchac PhD: SRH Hochschule fur Gesundheit, University of Applied Health Sciences, Karlsruhe Germany Margaret Walshe PhD: Trinity University, Dublin IE Irene Battel: Fondazione Ospedale San Camillo IRCCS, Venice Italy Dália Nogueira, PhD: Escola Superior de Saúde de Alcoitão (ESSA), Portugal Lenie van den Engel-Hoek, PhD: Radboud Universitair Medisch Centrum, Nijmegen NL Radish Kumar PhD: Kasturba Medical College, Manipal Academy of Higher Education, Mangalore India Kerstin Erfman PhD Katharina Winiker PhD Irene Battel PhD

Publications

H-Index: 31 i10 Index: 63 Scopus H-index: 21; 1465 citations in 987 documents. Between 75-80% compared to other Professors in Communication Sciences and Disorders¹

Books N=3 (5)

- Daniels SD, Gozdzakowski K & Huckabee ML (2019) Dysphagia Following Stroke, 3rd Edition, Plural Publishing: San Diego.
- 2. Walshe M & Huckabee ML Eds (2018) Clinical Cases in Dysphagia, Oxford: Taylor and Francis.
- 3. Daniels SD & Huckabee ML (2013) Dysphagia Following Stroke, 2nd Edition, Plural Publishing: San Diego.
- 4. Daniels SD & Huckabee ML (2008) Dysphagia Following Stroke, Plural Publishing: San Diego.
- 5. Huckabee ML & Pelletier CA (1998) Treatment of Adult Neurogenic Dysphagia, Singular Publishing Group: San Diego.

Book Contributions

- Huckabee ML and Doeltgen SH (2018). Rehabilitation of Swallowing Disorders. In Jones, T. and Paleri, V., Scott-Brown's Otorhinolaryngology, Head and Neck Surgery, 8th Edition. 55:851-859. Taylor & Francis, London. <u>https://www.taylorfrancis.com/books/e/9780203731000/chapters/10.1201/9780203731000-68</u>
- Huckabee ML, Macrae P, Wallace E (2018). Impaired laryngeal response to cough reflex testing. In Sandhu GS, Allen J, and Nouraei SA (Ed.), Laryngology: A case Based Approach.48: 511-520. San Diego: Plural Publishing.
- Greig L, Gozdzikowska K, and Huckabee ML (2018). Instrumental assessment and skill-based dysphagia rehabilitation following stroke. In Walshe M & Huckabee ML, Clinical Cases in Dysphagia.2:9-25. Oxford: Taylor and Francis.
- 4. Thomas P, Adams S and Huckabee ML (2018). Multidisciplinary management of paediatric dysphagia. In Walshe M & Huckabee ML, Clinical Cases in Dysphagia. 9: 117-128. Oxford: Taylor and Francis.

¹ Stuart et al., (2017) Author impact metrics in communication sciences and disorders. J Spch Lang Hring Res 60: 2704–2724.

- 5. **Huckabee ML** and Doeltgen S (2012) Functional Neurophysiology of Swallowing. In Newman, R.D., Nightingale J. (Ed.), Videofluoroscopy A Multi-Disciplinary Team Approach: in press. San Diego: Plural Publishing.
- Huckabee ML and Hughes L (2012) Compensatory Management and Treatment in Dysphagia. In Shaker, R., Postma G, Belafsky P, Easterling C (Ed.), Principles of Deglutition: A Multidisciplinary Text for Swallowing and it's Disorders.: ISBN-10: 1461437938. San Diego: Springer.
- Huckabee ML and Macrae P (2012) Management and Treatment of Oropharyngeal Dysphagia Adult: Rehabilitative Maneuvers and Exercise: Effortful Swallow. In Shaker, R., Postma, G., Belafsky, P., Easterling, C. (Ed.), Manual of Diagnostic and Therapeutic Techniques for Disorders of Deglutition: ISBN-10: 1461437784. San Diego: Springer.
- 8. **Huckabee ML.** (2011) Vom Labor in den klinischen alltag. In A. Hofmayer and S. Stanschus (Ed.), Strukturierte Praxis und Forschung in der klinischen Dysphagiologie: 31-48. Idstein: Schulz-Kirchner Verlag.
- 9. Huckabee ML, and Prosiegel M. (2011). Wallenberg Syndrome. In H Jones & J. Rosenbek (eds.). The Encyclopedia of Oropharyngeal Dysphagia in Rare Conditions. Plural Publishing: San Diego.
- Huckabee ML und Doeltgen S H (2011): Die Entwicklung von Rehabilitationsansaetzen f
 ür Pharyngeal Bewegungsstoerungen: Die Verknuepfung von Forschung und Klinischer Arbeit. In: Hofmayer A & Stanschus S (Hrsg.): Evidenzentwicklung in der Dysphagiologie: Von der Untersuchung in die Klinische Praxis. Idstein: Schulz-Kirchner Verlag.
- 11. Huckabee ML (2010) Commentaries on Dysphagia. In R. Body & L. McAllister, Ethics in Speech and Language Therapy. Oxford: Wiley-Blackwell
- Huckabee ML (2011): Vom Laboratorium bis Klinik: Pharyngeale manometry. In: Winkelmayer U Y & Stanschus S (Hrsg.): Evidenzentwicklung in der Dysphagiologie: Von der Untersuchung in die Klinische Praxis. Idstein: Schulz-Kirchner Verlag.
- Huckabee ML, and Kelly BN (2006) Rehabilitationsmodelle im Management von Dysphagien: Kasuistiken zur Schluckapraxie und zur Spastischen Dysphagie (Models of Rehabilitation in Dysphagia Management). In Sönke Stanschus (Hg.) Rehabilitation von Dysphagien, pp. 37-171. Schulz-Kirchner Verlag GmbH: Idstein, ISBN 978-3-8248-0351-4.
- 14. Huckabee ML (2002) Biofeedback-Monitoring zur Effektivierung der Schluckrehabilitation. In: S Stanschus (Hrsg.): Methoden in der Klinischen Dysphagiologie. Idstein: Schulz-Kirchner Verlag. ISBN 3-8248-0495-6

Software

1. **Huckabee ML,** Jones RJ, Sella O, Han B, Gaynor C and Chester C (2013) BiSSkiT: Biofeedback in Swallowing Skill Training. [Rehabilitation software and protocol]. University of Canterbury. Commercialised in 2015.

Peer-reviewed Manuscripts

- Chesney, N., Khwaounjoo, P., Huckabee, M. L., & Cakmak, Y. O. (2023). Non-Contact Assessment of Swallowing Dysfunction Using Smartphone Captured Skin Displacements. *Sensors (Basel, Switzerland)*, 23(12), 5392. https://doi.org/10.3390/s23125392
- 2. **Huckabee, M. L.,** Mills, M., Flynn, R., & Doeltgen, S. (2023). The Evolution of Swallowing Rehabilitation and Emergence of Biofeedback Modalities. *Current Otorhinolaryngology Reports*, 1-10.
- 3. Huckabee, M. L., Flynn, R., & Mills, M. (2023). Expanding rehabilitation options for dysphagia: skill-based swallowing training. *Dysphagia*, *38*(3), 756-767.
- Kwong, S. L., Hernandez, E. G., Winiker, K., Gozdzikowska, K., Macrae, P., & Huckabee, M. L. (2022). Effect of Topical Nasal Anesthetic on Comfort and Swallowing in High-Resolution Impedance Manometry. *The Laryngoscope*, 10.1002/lary.30010. Advance online publication. <u>https://doiorg.ezproxy.canterbury.ac.nz/10.1002/lary.30010</u>
- 5. Miller, K. J. W., Macrae, P., Paskaranandavadivel, N., **Huckabee, M. L.,** & Cheng, L. K. (2022). Non-invasive assessment of swallowing using flexible high-density electromyography arrays. *Annual International Conference of the IEEE Engineering in Medicine and Biology Society. IEEE Engineering in Medicine and Biology Society. Annual International Conference*, 2022, 5120–5123. https://doi.org/10.1109/EMBC48229.2022.9871168
- 6. Winiker, K., Hammond, R., Thomas, P., Dimmock, A., & **Huckabee**, M. L. (2022). Swallowing assessment in patients with dysphagia: Validity and reliability of a pocket-sized ultrasound system. *International journal of language & communication disorders*, 10.1111/1460-6984.12703.
- 7. Schindler A, Pizzorni N, Cereda E, Cosentino G, Avenali M, Montomoli C, Abbruzzese G, Antonini A, Barbiera F, Benazzo M, Benarroch E, Bertino G, Clavè P, Cortelli P, Eleopra R, Ferrari C, Hamdy S, **Huckabee ML**, Lopiano L,

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- Cosentino G, Avenali M, Schindler A, Pizzorni N, Montomoli C, Abbruzzese G, Antonini A, Barbiera F, Benazzo M, Benarroch EE, Bertino G, Cereda E, Clavè P, Cortelli P, Eleopra R, Ferrari C, Hamdy S, Huckabee ML, Lopiano L, Marchese Ragona R, ... Alfonsi E (2021). A multinational consensus on dysphagia in Parkinson's disease: screening, diagnosis and prognostic value. Journal of neurology, 10.1007/s00415-021-10739-8. Advance online publication. https://doi-org.ezproxy.canterbury.ac.nz/10.1007/s00415-021-10739-8
- 9. Winiker K, Gozdzikowska K, Guiu Hernandez E, Kwong NL, Macrae P, **Huckabee ML** (2021). Potential for behavioural pressure modulation at the upper oesophageal sphincter in healthy swallowing. Dysphagia. doi: 10.1007/s00455-021-10324-1. Online ahead of print.
- Winiker K, Burnip E, Gozdzikowska K, Hernandez EG, Hammond R, Macrae P, Thomas P, Huckabee ML (2021) Ultrasound Reliability of a pocket sized system in the assessment of swallowing. J Spch Lang Hring Res. 14: 1-13, doi: 10.1044/2021_JSLHR-21-00026
- Kothari S, Krishnamurthy R, Balasubramanium RK, Huckabee ML. (2021). The Test of Masticating and Swallowing Solids (TOMASS): Reliability, Validity and Normative Data for the Adult Indian Population. Indian J Otolaryngol Head Neck Surg. https://doi.org/10.1007/s12070-021-02429-8
- Krishnamurthy R, Kothari S Balasubraminium RK, Huckabee ML (2021). The Test of Masticating and Swallowing Solids (TOMASS): Normative data for the adult Indian population. Data Brief 35: 106958. doi: 10.1016/j.dib.2021.106958
- Ng KB, Guiu Hernandez E, Erfmann KLC, Jones RD, Macrae P, Huckabee ML.(2021). Effect of Volitional Effort on Submental Surface Electromyographic Activity During Healthy Swallowing. Dysphagia. doi: 10.1007/s00455-021-10278-4. Online ahead of print.
- Todaro F, Pizzorni N, Scarponi L, Ronzoni C, Huckabee ML, Schindler A. (2021). <u>The Test of Masticating and</u> <u>Swallowing Solids (TOMASS): Reliability and validity in patients with dysphagia.</u> Int J Lang Commun Disord. doi: 10.1111/1460-6984.12613. Online ahead of print.
- 15. Winiker K, Burnip E, Gozdzikowska K, Guiu Hernandez E, Hammond R, Macrae P, Huckabee ML (2021) <u>Ultrasound: Validity of a Pocket-Sized System in the Assessment of Swallowing.</u> Dysphagia. 2:1-9. doi: 10.1007/s00455-020-10232-w. Online ahead of print.
- 16. Ng KB, Jones RD, Hernandez EG, Macrae P, **Huckabee ML** (2021) Classification of stroke patients with dysphagia into subgroups based on patterns of submental muscle strength and skill impairment. Arch Phys Med Rehab. doi.org/10.1016/j.apmr.2020.11.014.
- 17. Avci R, Miller KJW, Paskaranandavadivel N, Bradshaw L, **Huckabee ML,** Cheng LK. (2020). Bioelectrical signals for the diagnosis and therapy of functional gastrointestinal disorders. Applied Sciences. 10: 22. DOI:
- Erfmann K, Macrae P, Jones R, Guiu Hernandez E, Huckabee ML (2020) Effects of cerebellar transcranial direct current stimulation (tDCS) on motor skill learning in swallowing. Disabil Rehabil. 1-9. doi: 10.1080/09638288.2020.1827303.
- Wallace E, Macrae P, Huckabee ML. (2020). <u>Objective measurement of acoustic intensity of coughing for</u> <u>clearance of penetration and aspiration on video-fluoroscopy.</u> Int J Speech Lang Pathol. 14:1-8. doi: 10.1080/17549507.2020.1784280. Online ahead of print.
- 20. Winiker K, Lamvik Gozdzikowska K, Guiu Hernandez E, Kwong, SL, Macrae P, Huckabee ML (2020, in press). Potential for volitional control of resting pressure at the upper oesophageal sphincter in healthy individuals. Dysphagia. doi: 10.1007/s00455-020-10146-7
- Wallace E, Guiu Hernandez E, Epton M, Ploen L, Huckabee ML, Macrae P. (2020) A Sensory Stimulation Protocol to Modulate Cough Sensitivity: A Randomized Controlled Trial Safety Study. Am J Speech Lang Pathol. May 7:1-11. doi: 10.1044/2020_AJSLP-19-00180.
- Burnip E, Wallace E, Gozdzikowska K, Huckabee ML (2020) A systematic review of rehabilitation for corticobulbar symptoms in adults with Huntington's disease. Jour Huntington's Dis. 9(1):1-12.
 DOI: 10.3233/JHD-190384
- Perry SE, Huckabee ML, Tompkins G, Milne T. (2020) <u>The association between oral bacteria, the cough reflex</u> <u>and pneumonia in patients with acute stroke and suspected dysphagia.</u> J Oral Rehabil. Mar;47(3):386-394 doi: 10.1111/joor.12903. [Epub ahead of print]
- 24. Guiu-Hernandez E, Gozdzikowska K, Jones, RD, **Huckabee ML** (2019) Pharyngeal swallowing during wake and sleep. Dysphagia, 34(6):916-921. doi: 10.1007/s00455-019-09989-6. [Epub ahead of print]

- 25. Lamvik K, Apperley O, Guiu Hernandez E, McIntosh T, **Huckabee ML** (2018) Quantitative assessment of oral phase efficiency: Validation of the Test of Masticating and Swallowing Solids. Intl Jour Lang & Comm Dis. 54(3):444-450. doi: 10.1111/1460-6984.12450.
- 26. Winiker K, Gillman A, Guiu Hernandez E, **Huckabee ML**, Gozdzikowska K. (2018). A systematic review of current methodology of high resolution pharyngeal manometry with and without impedance. Eur Arch Otorhinolaryngol. 276(3):631-645. doi: 10.1007/s00405-018-5240-9.[Epub ahead of print]
- 27. Huckabee ML & Burnip E (2018). Still rethinking rehab: Motor learning treatment approaches for dysphagia. SIG 13, Swallowing and Swallowing Disorders (Dysphagia), 13(3): 146-156. (invited article).
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- 29. Guiu Hernandez E, Gozdzikowska K, Jones R, **Huckabee ML**. (2018). <u>Comparison of unidirectional and</u> <u>circumferential manometric measures within the pharyngoesophageal segment: an exploratory study.</u> Eur Arch Otorhinolaryngol. 275(9):2303-2310. doi: 10.1007/s00405-018-5019-z.
- Huckabee ML, and Lamvik-Gozdzikowska K (2018). Reconsidering rehabilitation for neurogenic dysphagia: Strengthening skill in swallowing. Curr Phys Med Rehabil Rep (2018) 6: 186. https://doi.org/10.1007/s40141-018-0193-x. (invited article).
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- 32. Huckabee ML, McIntosh T, Fuller L, Curry M, Thomas P, Walshe M, McCague E, Battel I, Nogueira D, Frank U, van den Engel-Hoek L, and Sella-Weiss O. (2018). <u>The Test of Masticating and Swallowing Solids (TOMASS):</u> reliability, validity and international normative data. Int J Lang Commun Disord. 53(1):144-156. doi: 10.1111/1460-6984.12332. Epub 2017 Jul 5.
- 33. Mills C, Jones R, and Huckabee ML (2017). <u>Measuring voluntary and reflexive cough strength in healthy</u> <u>individuals.</u> Respir Med 132:95-101. doi: 10.1016/j.rmed.2017.09.013
- Guiu Hernandez E, Gozdzikowska K, Apperley O, and Huckabee ML. (2017). Effect of topical nasal anesthetic on swallowing in healthy adults: A double-blind, high-resolution manometry study. Laryngoscope. 128(6):1335-1339. doi: 10.1002/lary.26996.
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- Perry SE, Winkelman CJ, and Huckabee ML (2016). <u>Variability in Ultrasound Measurement of Hyoid Bone</u> <u>Displacement and Submental Muscle Size Using 2 Methods of Data Acquisition</u>. Folia Phoniatr Logop. 2016;68(5):205-210. doi: 10.1159/000473876.
- 38. Al-Toubi A, Daniels SK, Huckabee ML, Corey DM, and Doeltgen SH. (2016). <u>Behavioural and neurophysiological</u> <u>disruption of corticobulbar motor systems and their effects on sequential pharyngeal swallowing.</u> Physiology and Behavior 165:69-76. doi: 10.1159/000473876
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- 46. Sella O, Jones RD, and Huckabee ML (2014). <u>Age and gender effects on submental motor-evoked potentials</u>. Age. 36(6):9735. doi: 10.1007/s11357-014-9735-z.
- 47. Ombler K and Huckabee ML (2015) Infection control in cough reflex testing: An equipment-based bacterial contamination. Speech Language and Hearing 18(1): 25-29, doi.org/10.1179/2050572814Y.000000043)
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- 50. Chester CJ, Gaynor PT, Jones RD and **Huckabee ML** (2014) <u>Electrical bioimpedance measurement as a tool for</u> <u>dysphagia visualisation.</u> IET Healthcare Technology Letters 1(3): 115 - 118. doi: 10.1049/htl.2014.0067
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