

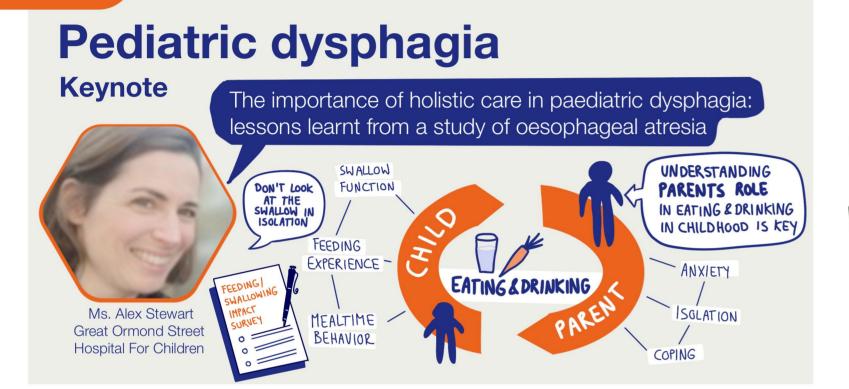
Visual Summary

ESSD 2024 14th Annual Congress

From bench to bedside

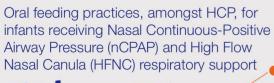


From bench to bedside











AREAS FOR

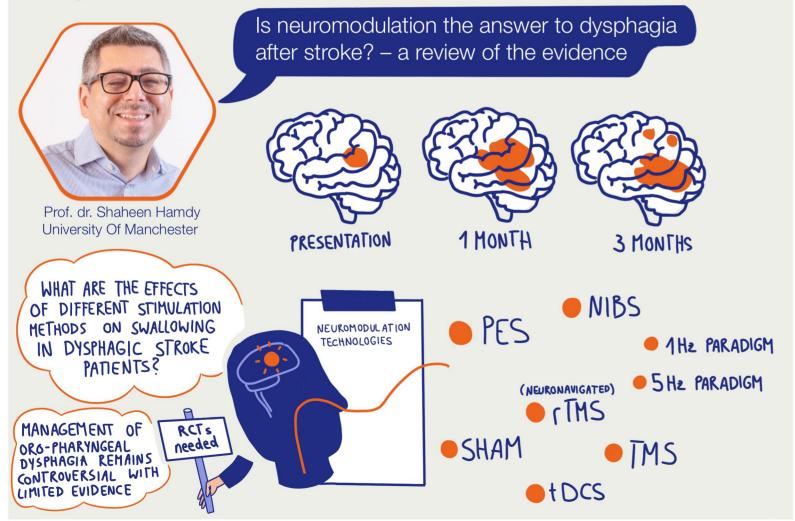


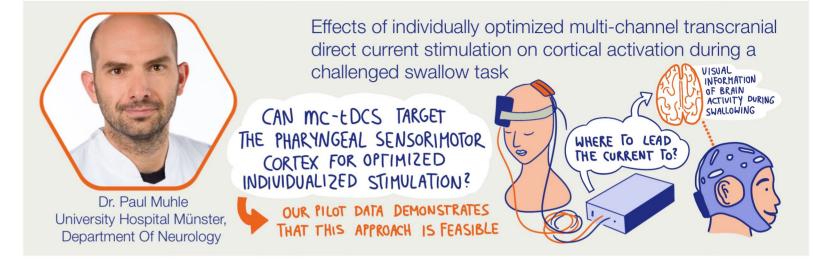


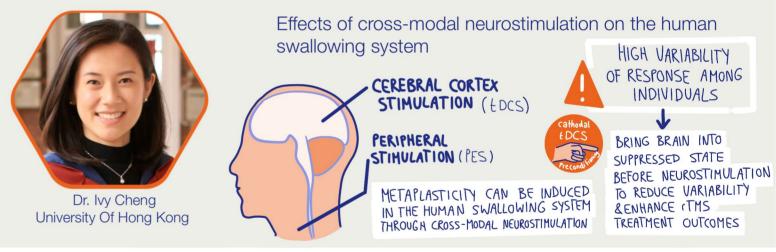
From bench to bedside

Presidental Symposium: Innovation in the treatment of Neurogenic Dysphagia

Keynote









From bench to bedside

Innovations in Multidisciplinary Head

and Neck Cancer Rehabilitation

Swallowing impairment in Head and Neck Oncology

Keynote

INTERDISCIPLINARY REHABILITATION

Prof. dr. Michiel van den Brekel Netherlands Cancer Institute

PHASES OF REHABILITATION

DYSPHAGIA

PREVENTION

+TREATMENT

PREHAB

AND/OR SURGERY

DURING/AFTER CRT

VOICE &

SPEECH

THERAPY



LATE RAD

PROGRESSIVE FUNCTIONAL

IMPAIRMENT AFTER 10-20 YEARS

BODY

• ACTIVITIES

FUNCTIONS

PARTICIPATION

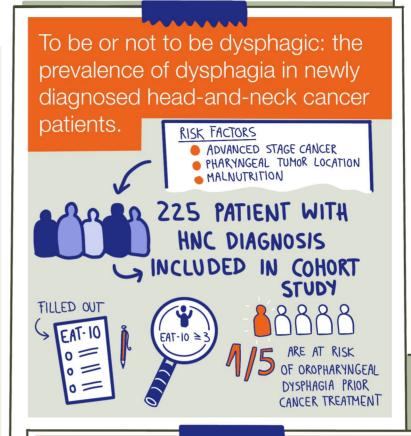
ORGANIZATION OF REHABILITATION CARE

TAILOR

THERAPY

TO THE

INDIVIDUAL



Effectiveness and Long-Term Durability of Cricopharyngeal Peroral Endoscopic Myotomy (C-POEM) for Treating Dysphagia with Upper Oesophageal Sphincter Dysfunction

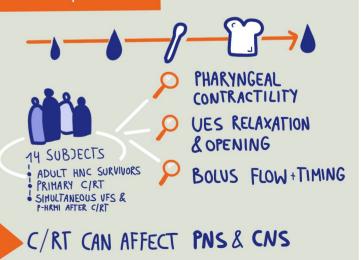


- C-POEM IS EFFECTIVE & SAFE
- VARIOUS NEUROMYOGENIC DISORDERS
- DEMONSTRATED TREATMENT DURABILITY
- MAJORITY OF PATIENTS ABLE TO BE WEANED OFF PEG

Swallowing Rehabilitation Post-Total Laryngectomy: A Clinical Phase II Trial Using the Swallowing Exercise Aid (SEA 2.0)



Impact of primary (chemo-) radiotherapy on pharyngeal and upper oesophageal swallow biomechanics in head and neck cancer patients

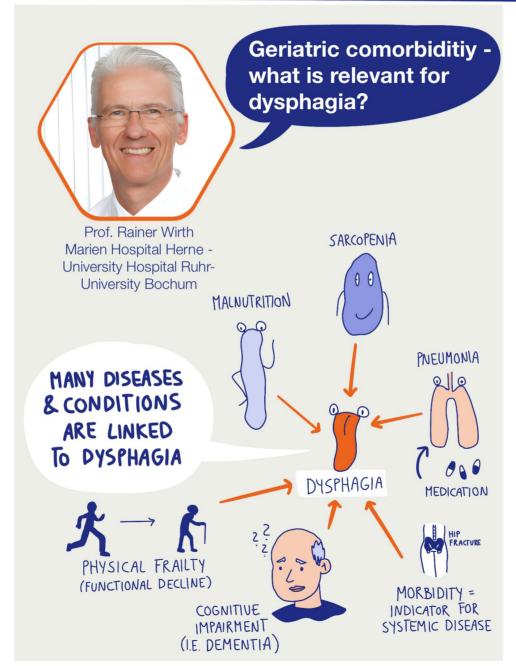


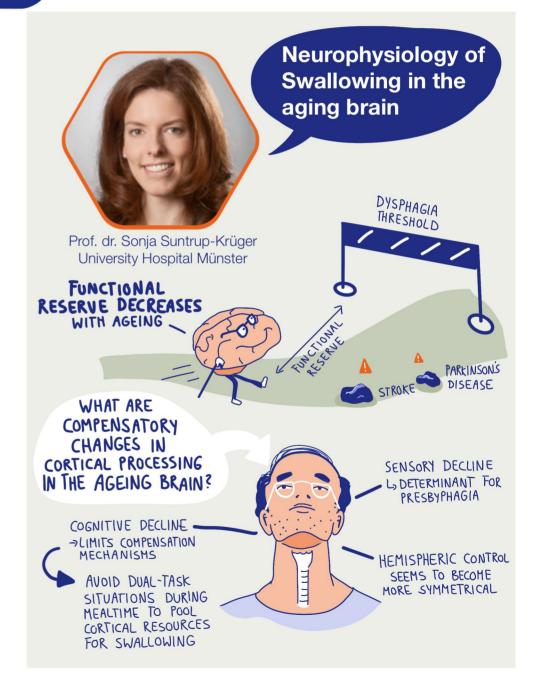


From bench to bedside

EUGMS-ESSD-Joint-Symposium









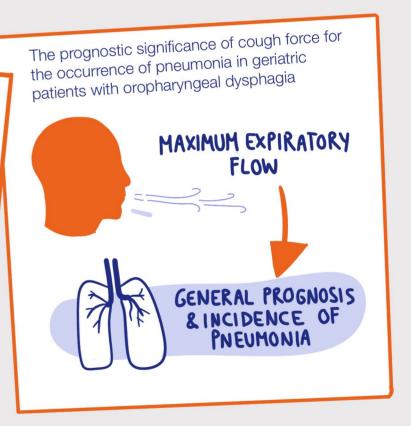
From bench to bedside

ULTRASOUND IMAGE ACQUISITION

Free paper session

Geriatric Dysphagia

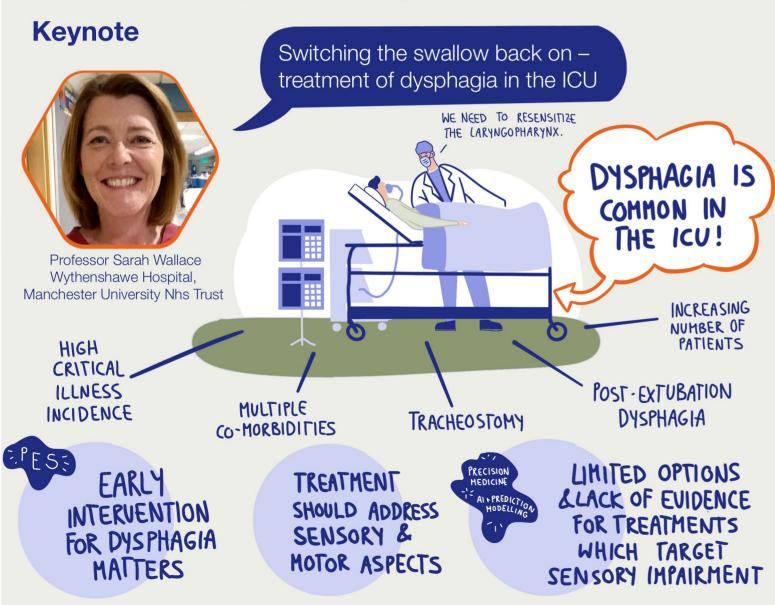






From bench to bedside

Dysphagia in the ICU / Dysphagia and airway management



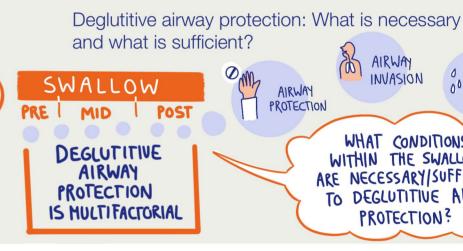


Ms. Devin Lucas Boston University Chobanian & Avedisian School of Medicine

Identifying the Association between Post-Extubation Laryngeal Edema and Aspiration in Acute Respiratory **Failure Patients** PRESENCE OF IS THERE A DISTINCT AE FOLD EDEMA ANATOMIC LOCATION WHERE PRESENCE OF EDEMA PREDICTS ASPIRATION IN INCREASED ARF PATIENTS? 4+ EDEMATOUS RISK OF LARYNGEAL **ASPIRATION** LOCATIONS



Dr. Corinne Jones The University Of Texas At Austin



WHAT CONDITIONS WITHIN THE SWALLOW ARE NECESSARY/SUFFICIENT TO DEGLUTITIVE AIRWAY PROTECTION?



Associate prof. Sriramya Lapa Goethe Universitätsklinikum Frankfurt

Intensive care unit-acquired dysphagia – change in feeding route after a standardized dysphagia assessment in neurocritical care patients

PROTECTION



IN HOW MANY PATIENTS ICU-SPECIFIC GUIDELINES DID THE DYSPHAGIA FOR DYSPHAGIA ASSESSMENT BY SLT ARE LACKING LEAD TO CHANGE IN FEEDING ROUTINE?





PREMATURE

SPILLAGE

GRAPHIC RECORDING MANUEL RECKER. DE

SIGNIFICANT CHANGES IN

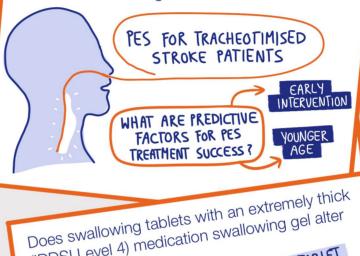
From bench to bedside



Free paper session

Swallowing (neuro-)physiology in health and disease

Investigation on factors for pharyngeal electrical stimulation success: A secondary analysis from PHADER cohort study with tracheotomised stroke patients with dysphagia



(IDDSI Level 4) medication swallowing gel alter

NO EVIDENCE FOR NEGATIVE

EFFECT OF GLOUP IN VIVO

GLOUP FORTE CAN REDUCE DOSE DUMP

IF CRUSHING TABLETS IS UNAVOIDABLE

drug absorption?

TABLET

CRUSHED TABLET

GLOUP

Combination of Non-Invasive Electrical Stimulation (Pharyngeal Electrical Stimulation or Transcranial Direct Current Stimulation) with Functional Dysphagia Therapy: Effects on Aspiration in Tracheotomized and Non-Tracheotomized Patients with Postacute Dysphagia



Effects of Proprioceptive Neuromuscular Facilitation or Chin Tuck Against Resistance Exercises in Addition to Conventional Therapy in Post-Stroke Dysphagia



- ALL GROUPS IMPROVED THEIR SWALLOWING FUNCTION
- INTERVENTION GROUPS = BETTER OUTCOMES

HOW DOES? DIGEST-FEES as a Global Outcome Measure for Pharyngeal Dysphagia in Parkinson's Disease — Results of a Validation Study



CONTENT VALIDITY

CONSTRUCT VALIDITY

GRAPHIC RECORDING MANUEL RECKER. DE

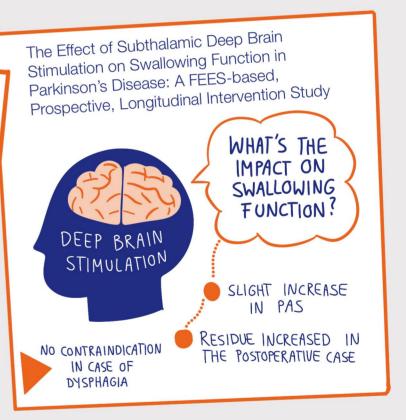
From bench to bedside

Free paper session

Swallowing (neuro-)physiology in health and disease

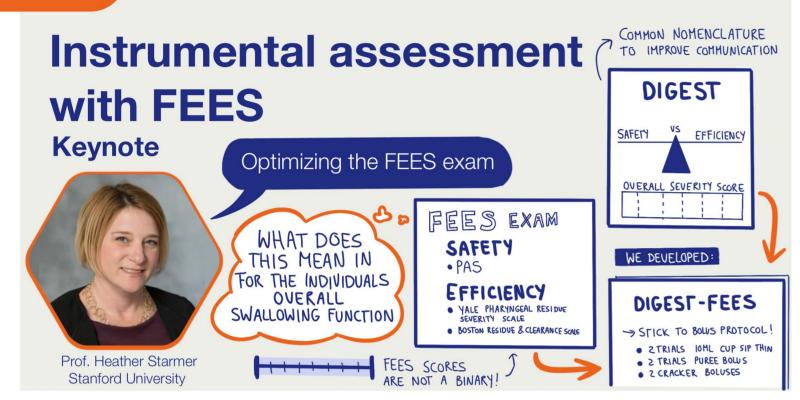


HIGHER RISK FOR P/A EVENTS





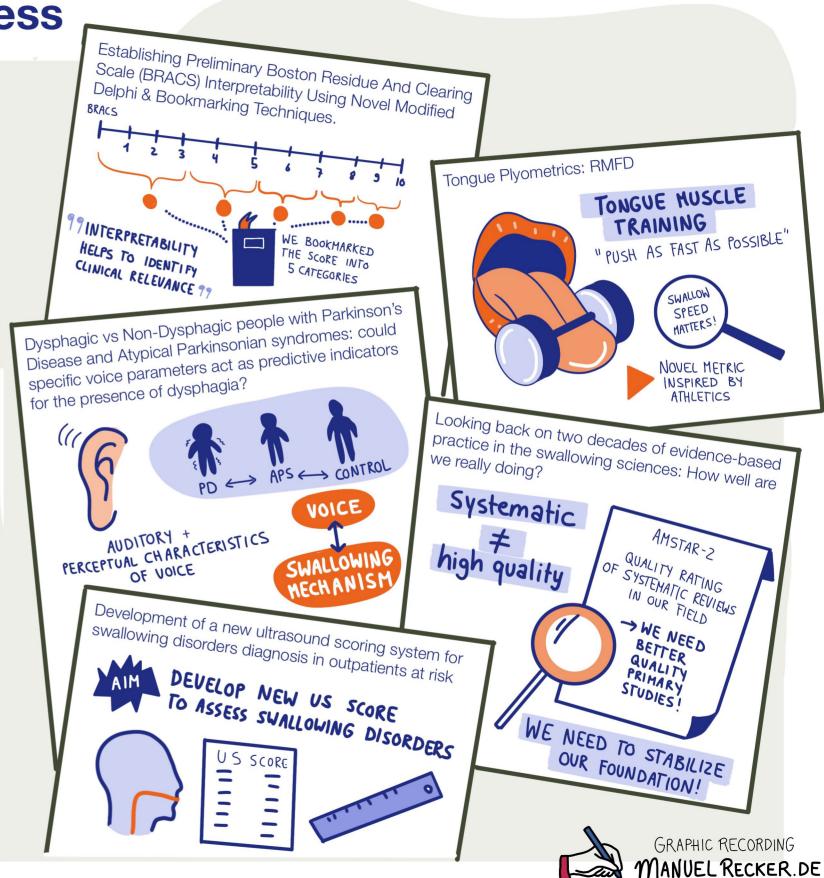
From bench to bedside











From bench to bedside

Al in dysphagia diagnostics and treatment

Keynote

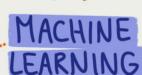


Dr. Anaïs Rameau Weill Cornell Medical College

ACCESSO

Deglutition in the Age of Digital Health







WORD - TOKEN -> WORD

TRANSFORMERS



EASY DATA COLLECTION

DATA ACQUISITION

· PHONATION · HIGH

FROM EVERYWHERE



AI CAN HELP

US TO SCALE

INTERVENTIONS

AUDIOMICS

TO PREDICT SWALLOWING DYSFUNCTION



dolo





COUGH

→ LESS PYJAMA TIME

/NOTE WRITING

AFTER WORK

· COUNT



I.E. FOR VIDEO-FLUOROSCOPY

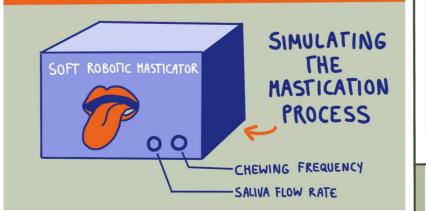
Identifying risk factors for dysphagia in adult critically ill patients post extubation using machine learning

DYSPHAGIA?

CAN AI-ASSISTED ML MODELS IDENTIFY DYSPHAGIA RISK IN ADULT PATIENTS WHO REQUIRED ENDOTRACHEAL INTUBATION WITHIN AN ICU?

CONVOLUTIONAL NEURAL NETWORKS CAN PREDICT PED RISK FOR THE INDIVIDUAL PATIENT

A first-of-its-kind Soft Robotic Masticator that, combining in vitro mastication and swallowing, is capable of simulating food intra-oral manipulation: Stage II of Transport



Predicting Long-term Prognosis of Poststroke Dysphagia with Machine Learning



An explainable AI (XAI) approach to oropharyngeal dysphagia detection using swallowing sequencing features identified in point-of-care ultrasound (POCUS)

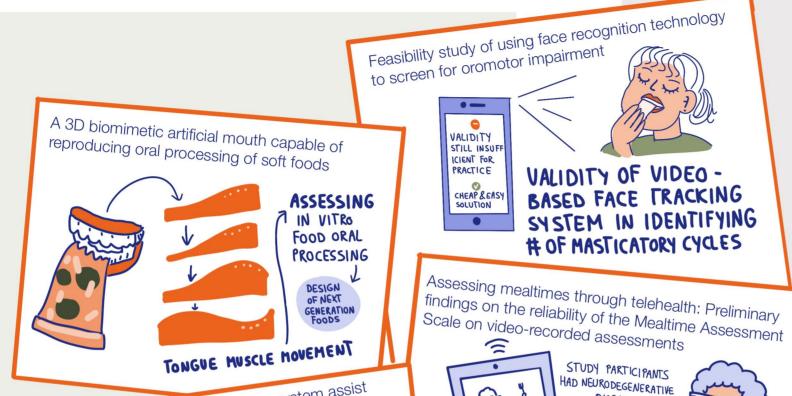




From bench to bedside

Free paper session

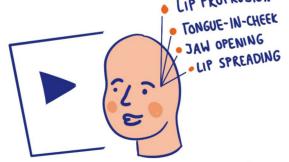
Al. semiautomated diagnostics in deglutology, telehealth



DISEASE

APPLYING MAS FOR TELEHEALTH

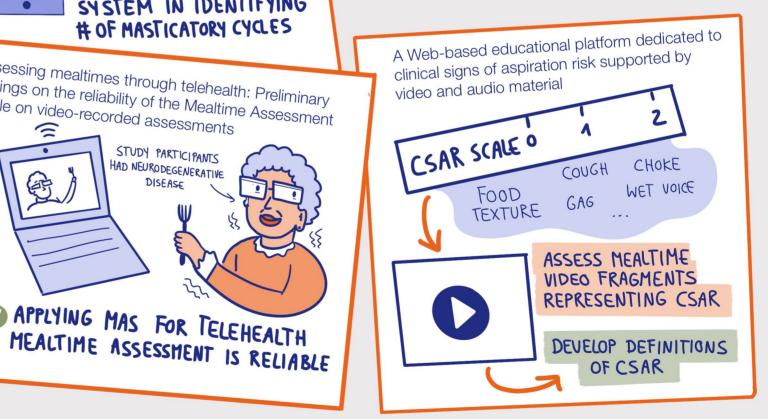
Can a video-based face tracking system assist clinicians in assessing mastication? · LIP PROTRUSION



TRACKING OROMOTOR

MOVEMENTS WITH

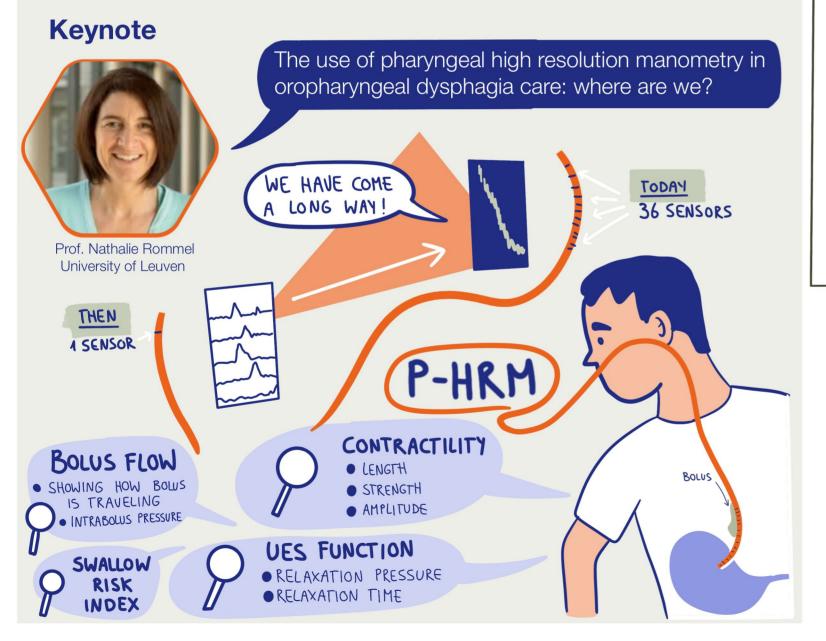
AUTOMATED FACE RECOGNITION TECHNOLOGY





From bench to bedside

Neurogastroenterology



Effects of barium sulfate, thickener type, and bolus volume on pharyngeal pressures measured with high-resolution pharyngeal manometry

CAN BOLUS INGREDIENTS

MADDIEN SURLINGER

CAN BOLUS INGREDIENTS



The Impact of Bolus Rheology on Physiological Swallowing Parameters Derived by Pharyngeal High-Resolution Manometry Impedance

CAN SIMILAR IDDS FLUIDS PRODUCE DETECTIBLE CHANGES IN PHARYNGEAL SWALLOWING?

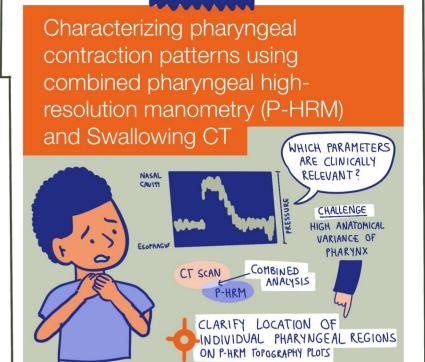
SIMILAR VISCOSITY AT SHEAR RATE OF 50.1

• EQUIVALENT THICKNESS

CONTRACTILITY

FLOW RESISTANCE

BOLUS PRESENCE

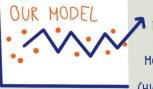


Development and internal validation of a diagnostic multivariable model predicting aspiration risk from highresolution impedance manometry data



DEVELOP & VALIDATE PROGNOSTIC MODEL PREDICTING DEGLUTITIVE ASPIRATION FROM PRESSURE-FLOW VARIABLES





SHOWED A
MODEST PREDICTIVE
ABILITY
(HIGH SPECIFICITY,
POOR SENSITIVITY)



Visual summary by

