

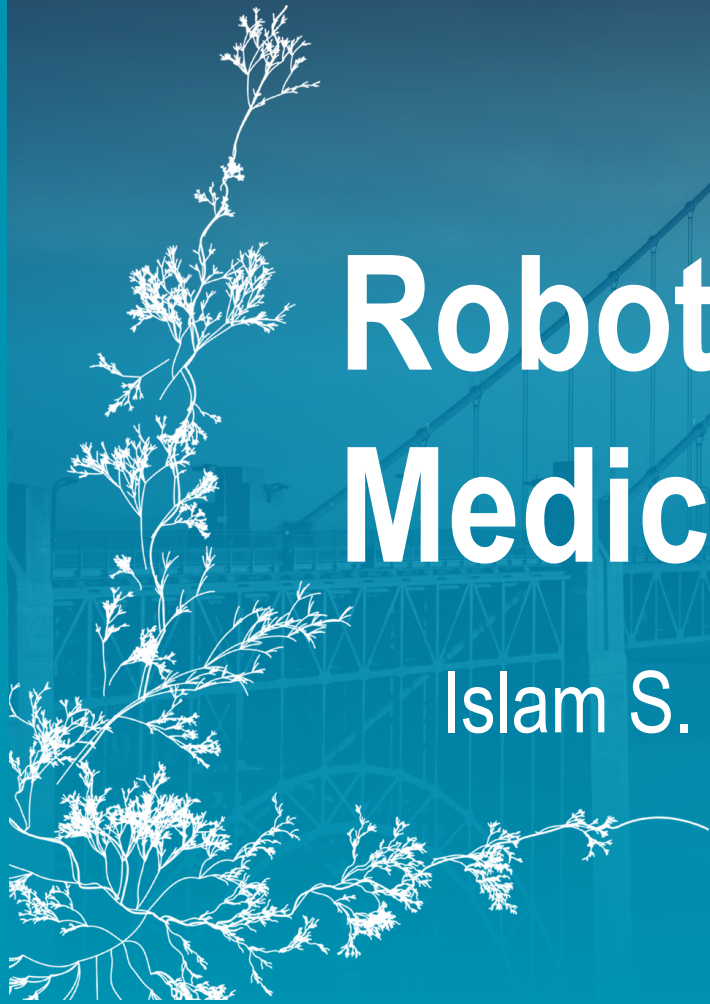


# Pioneering Perspectives: Innovation and Technology in Early-Stage Clinical Drug Research

Islam Khalil, University of Twente

# Robots for More Effective Medication Delivery

Islam S. M. Khalil – University of Twente

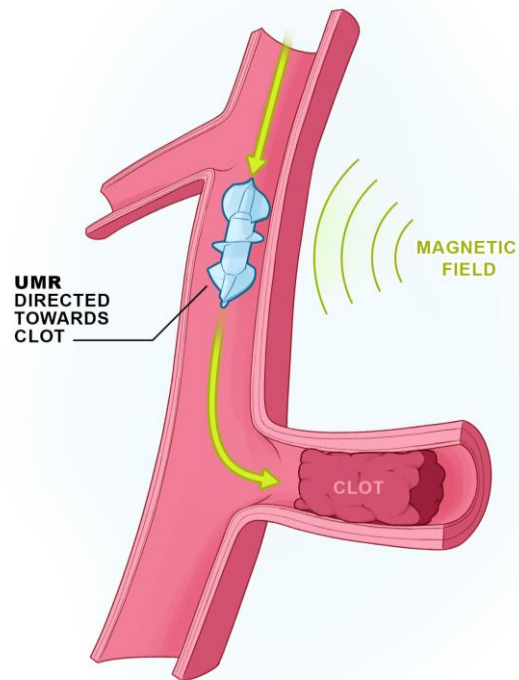


# DISCLOSURE SLIDE

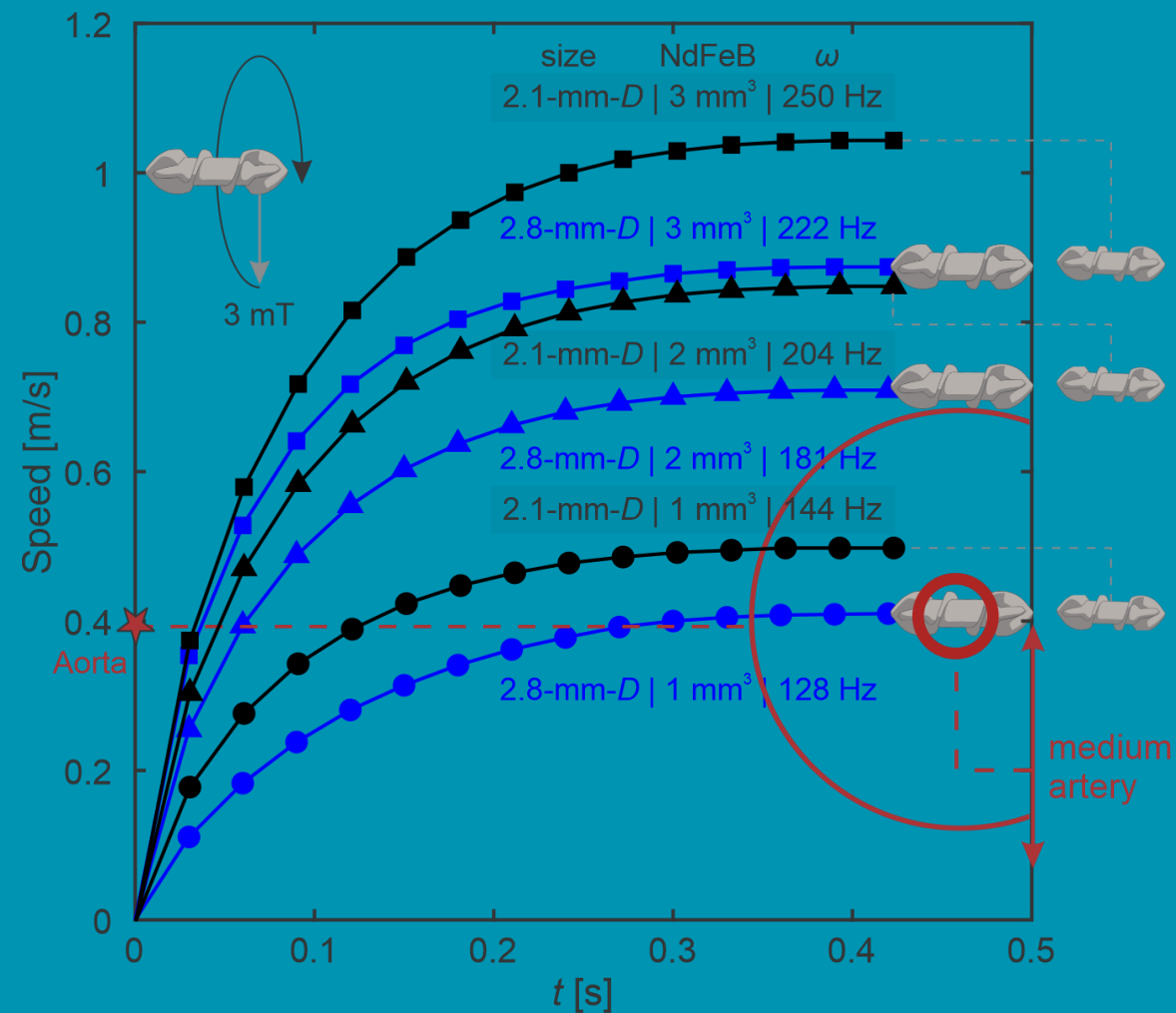
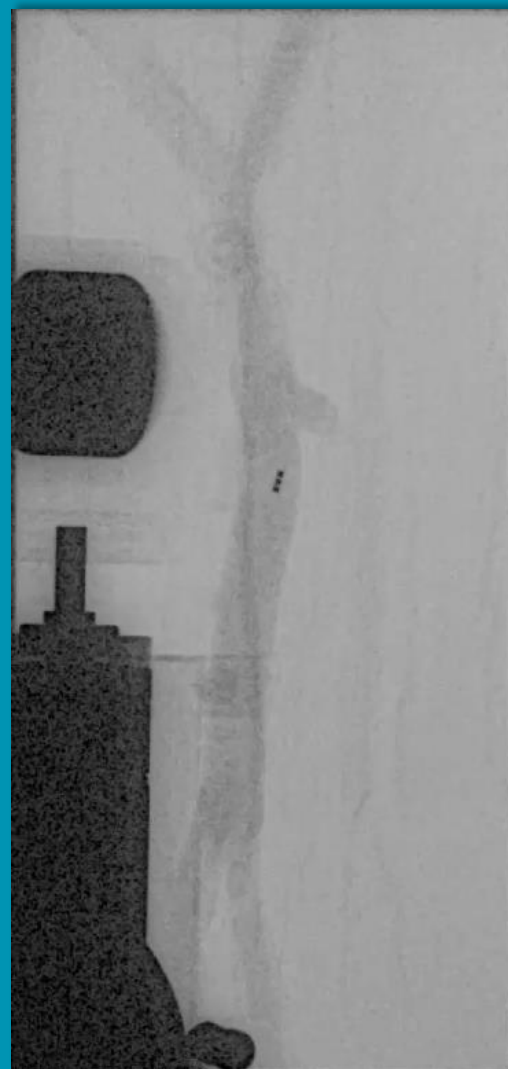
There are no financial interests



# UNTETHERED MICRO/MILLIROBOTS



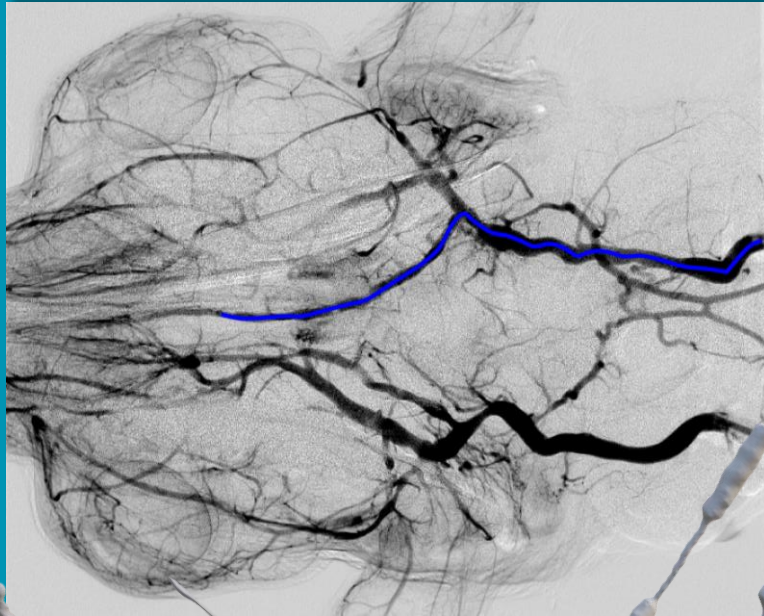
Injection and Control of UMR in Vessel



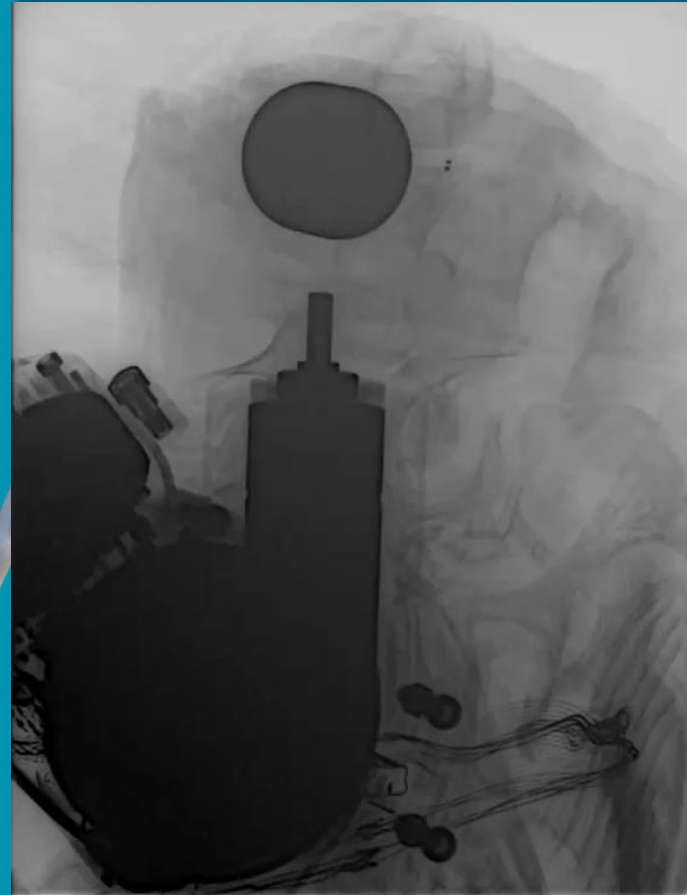


# UNTETHERED MICRO/MILLIROBOTS

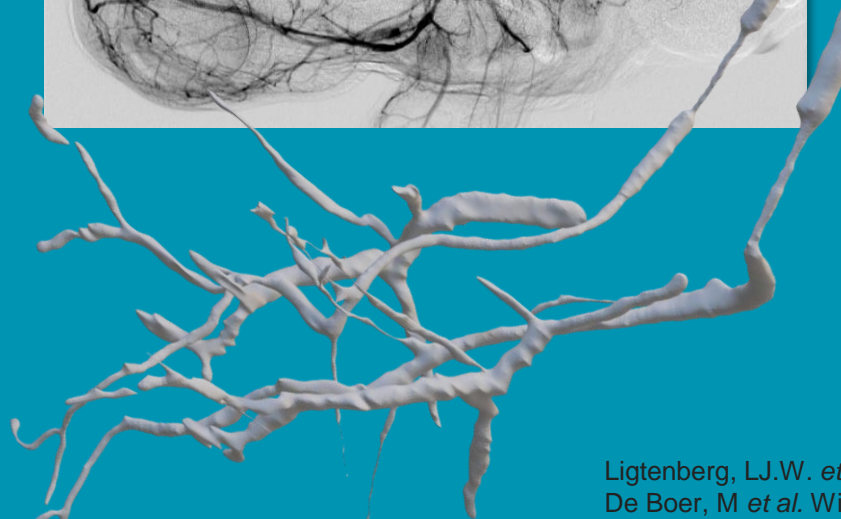
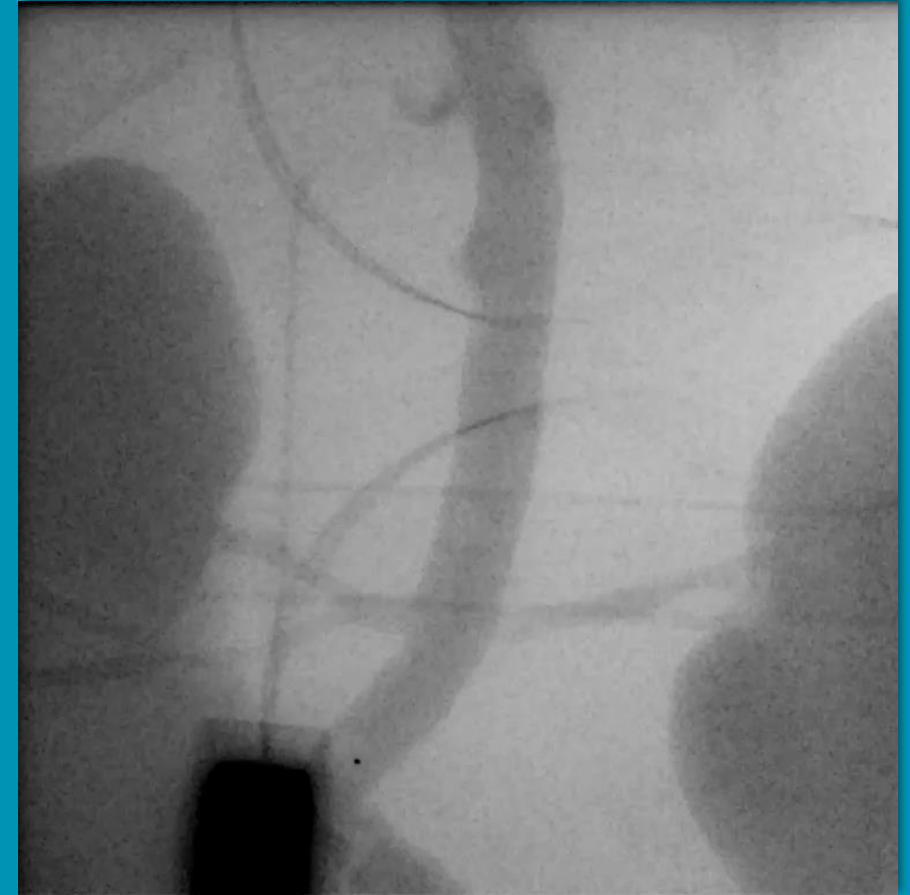
Planned path within a cerebral vascular system



ECA-ICA bifurcation — rCCA



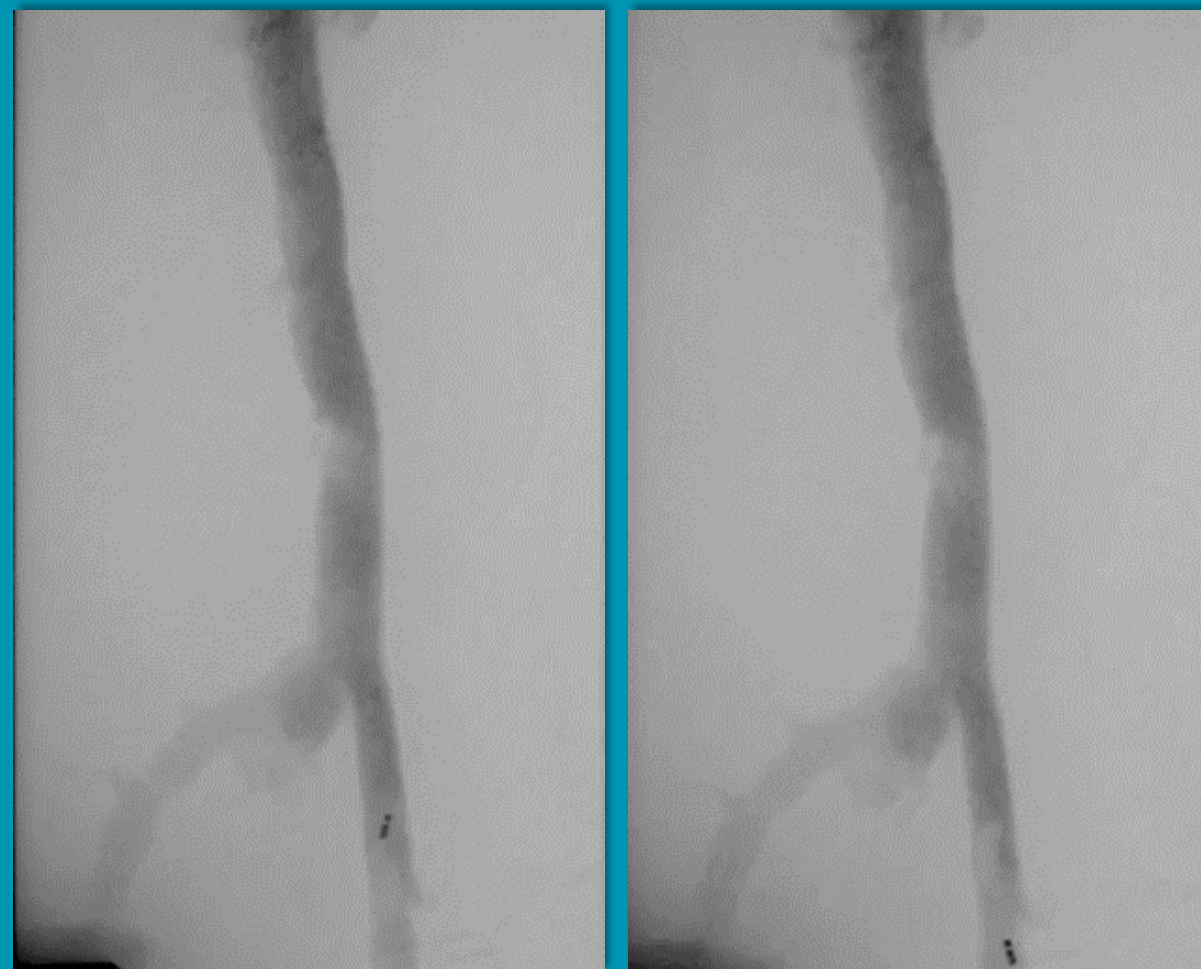
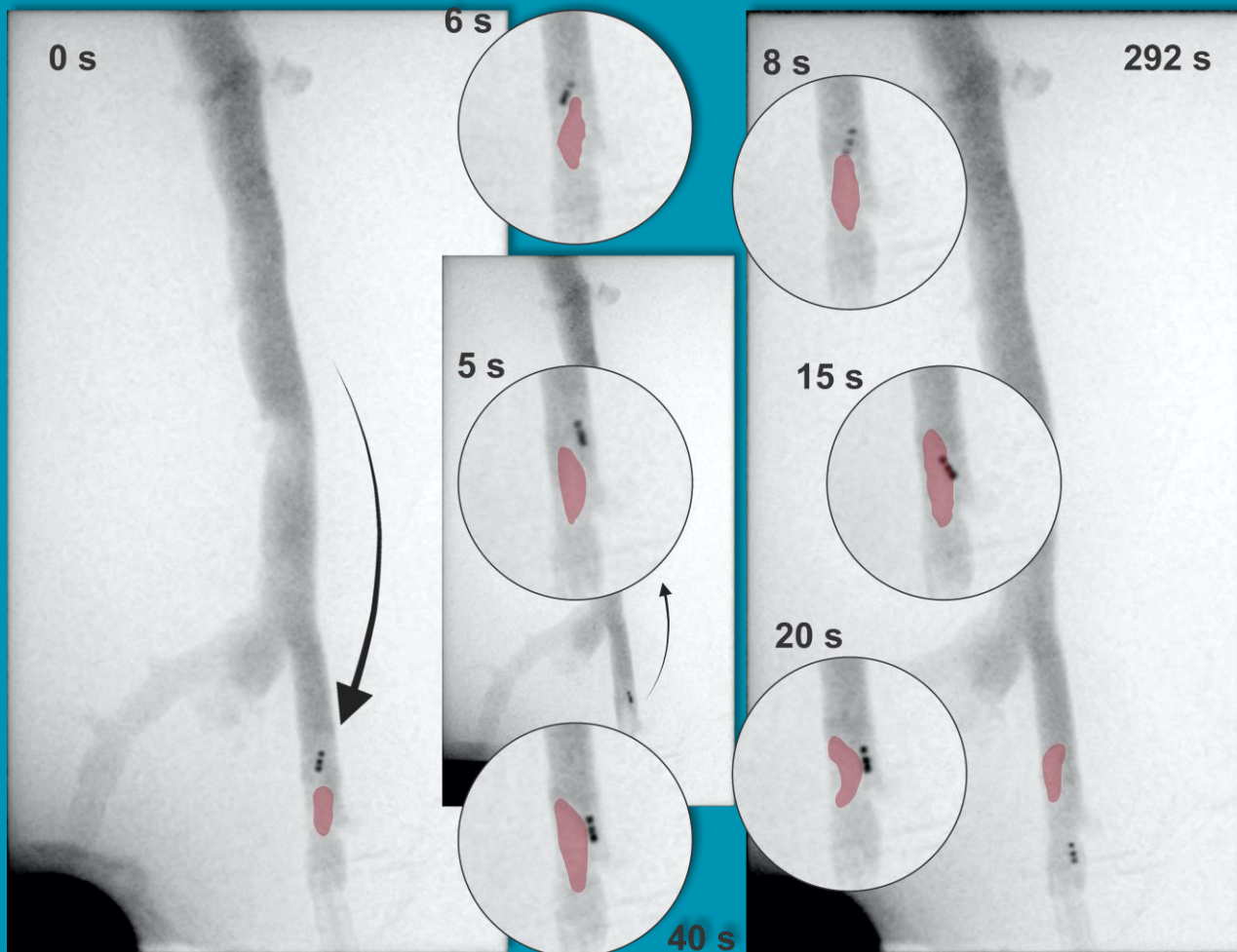
Motion through abdominal aorta



# DEMONSTRATED CAPABILITIES

Blood flow is restored under 5 minutes

Blood flow is restored under 5 minutes



# THE TECHMED EVENT

BRIDGING PAST AND FUTURE: FIVE YEARS  
OF MEDTECH ADVANCEMENTS AND BEYOND

