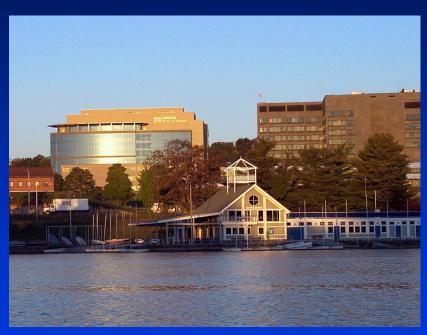
From Bench to Brain



A Stent-Retriever is just a Stent-Retriever



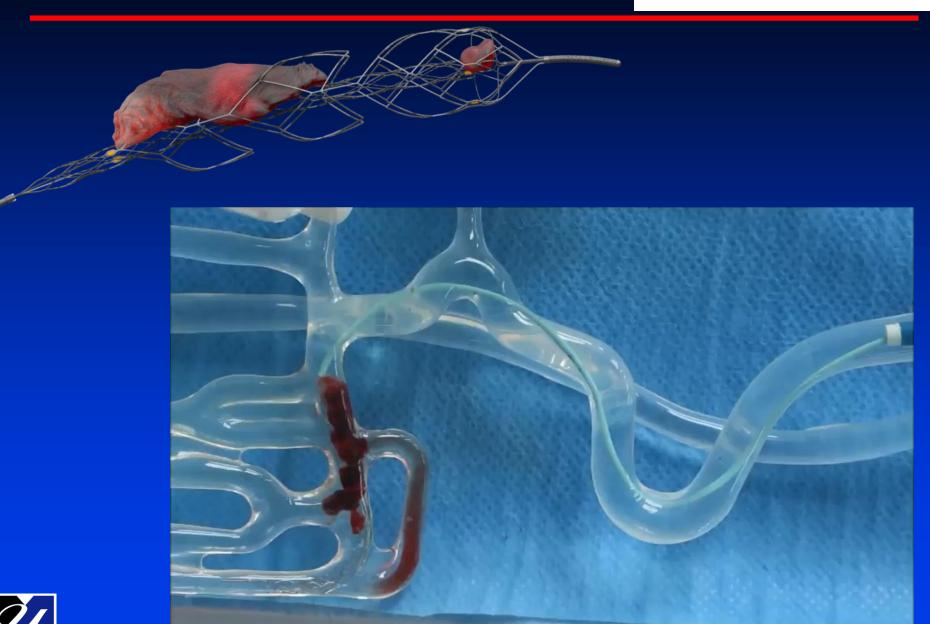




Matthew Gounis, PhD
Professor, Department of Radiology
Director, New England Center for Stroke Research
WLNC 2017, Los Angeles

New Generation SR Device

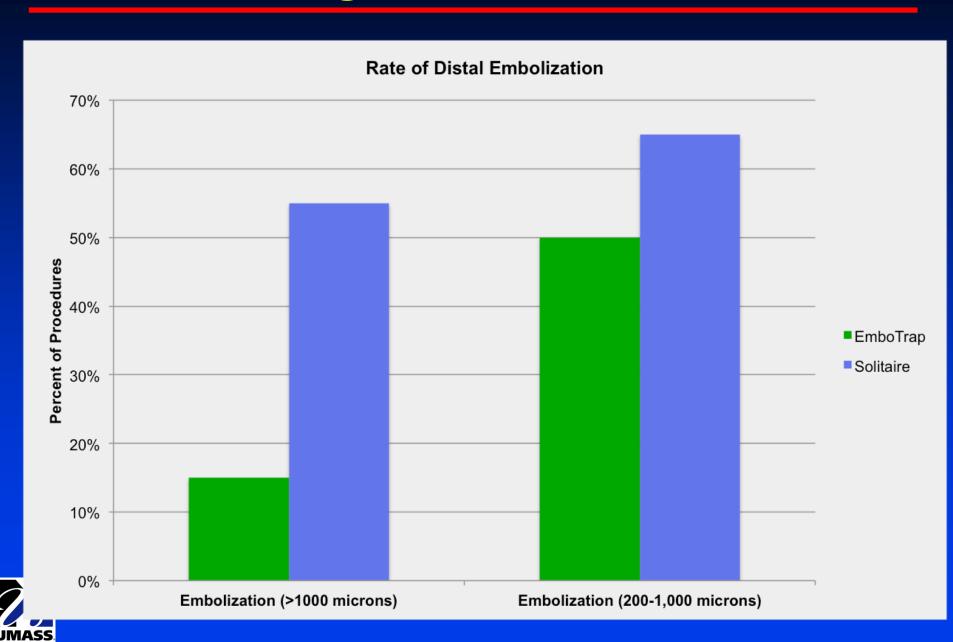








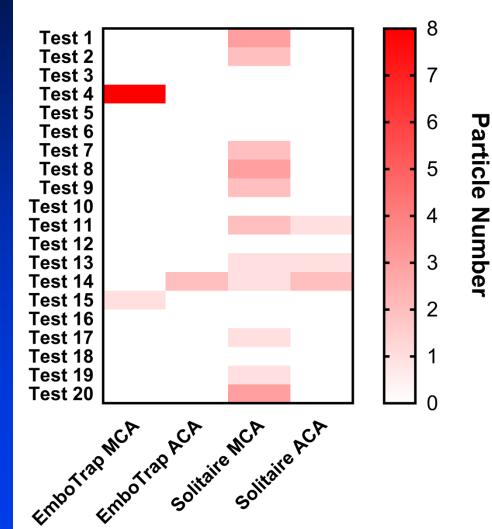
Distal Clot Fragments





Distal Emboli >1mm

- Large emboli (>1mm)
 - -15% of EmboTrapexperiments versus55% of controlexperiments(p=0.0096)
 - Frequency of large distal clot fragmentation reduced with EmboTrap vs Control



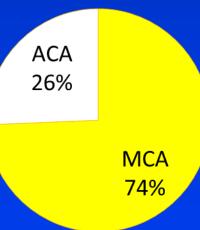




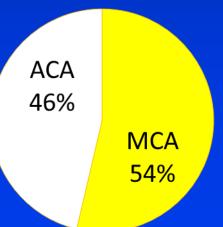
Distal Clot Fragments

- Emboli >200µm:
 - -Distal emboli were larger for control (650μm) versus EmboTrap (545μm) (p=0.022)
 - -Emboli between 200-1000µm more likely to go to ACA with control versus EmboTrap (p=0.066, Fisher's exact test)

EmboTrap: 39 fragments between 200-1000µm



Control: 41 fragments between 200-1000µm

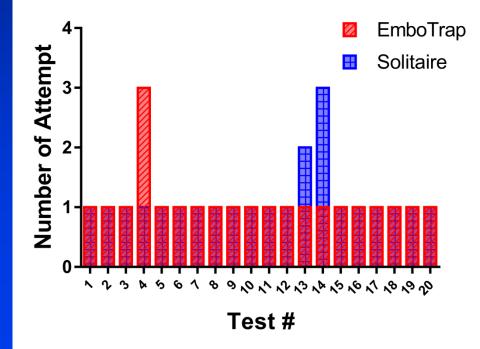




Efficacy

 Both designs effective in model, first pass success was 95% and 90% for EmboTrap and control,

respectively





UMass Collaborations

- Marc Fisher, MD
- Neil Aronin, MD
- Alexei Bogdanov, PhD
- Greg Hendricks, PhD
- Guanping Gao, PhD
- Miguel Esteves, PhD
- Linda Ding, PhD
- Srinivasan Vedantham, PhD
- John Weaver, MD

Collaborations

- Alex Norbash, MD BU
- Thanh Nguyen, MD BU
- Italo Linfante, MD Baptist
- Guilherme Dabus, MD Baptist
- Don Ingber, PhD Harvard
- Nati Korin, PhD Technion
- Johannes Boltze, MD, PhD –
 Frauhofer Institute
- Raul Nogueira, MD Emory

NECStR

- Ajay Wakhloo, MD, PhD
- Ajit Puri, MD
- Juyu Chueh, PhD
- Miklos Marosfoi, MD
- Martijn van der Bom, PhD
- Kajo van der Marel, PhD
- Anna Kühn, MD, PhD
- Frédéric Clarençon, MD, PhD
- Ivan Lylyk, MD
- Mary Howk, MS, CRC
- Thomas Flood, MD, PhD
- Erin Langan, BS
- Olivia Brooks
- Olena Fartushna, MD
- Chris Brooks, PA
- Mary Perras, NP
- Shaokuan Zheng, PhD