



NR319-ED-X

Evolution of Acute Ischemic Stroke Treatment as Supported by Clinical Trials

All Day Room: NR Community, Learning Center Digital Education Exhibit

Participants

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TEACHING POINTS

1. Understand the evolution of data in the endovascular management of stroke 2. Review of current up to date clinical trials in stroke management

TABLE OF CONTENTS/OUTLINE

Below is an outline of all the major stroke trials which will be discussed in detail with comparative analysis in our poster. 1. Intravenous Thrombolysis: 1995-NINDS study leading to FDA approval of IV-rtPA for patients with acute ischemic stroke in 1996. 2000-ECASS III 2. Intra-arterial Thrombolysis: 1998/1999-PROACT I & II 3. Mechanical Thrombectomy: 2004-FDA approved first mechanical thrombectomy device-MERCI and MULTI MERCI trials. 2008-FDA approved PENUMBRA stroke system-PENUMBRA Trial 4. Mechanical Thrombectomy Trials involving 1st generation devices (2004-2012): IMS (Interventional Management of Stroke) III. MR RESCUE (Mechanical Retrieval and Recanalization of Stroke Clots Using Embolectomy). SYNTHESIS EXP (Intra-arterial vs. systemic thrombolysis for acute ischemic stroke trials) 5. Mechanical Thrombectomy Trials using stent retrievers (2015): Stent Retrieval Phase 2 Trials - SWIFT and TREVO 2. Stent Retrieval Phase 3 Trials - MR CLEAN, ESCAPE, SWIFT PRIME, EXTEND-1A, REVASCAT 6. Recent Trials (2018): DAWN & DEFUSE 3

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