Riverside Methodist Hospital
Columbus, Ohio

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Interventional Neurology

Riverside Methodist Hospital

- Stroke Program Development   12 yr
- First in Ohio
  - Primary Stroke center   2004
  - Comprehensive stroke center   2012
  - Ohio Health Stroke Network   21 sites
- 2000+ stroke discharges   2012

RMH Stent Retrievers

1 year + (3/12-5/13)

79 Anterior Circulation pts

- Age av   68 + 15 yrs

- NIHSS av   17.5

- ASPECTS score med   9

- Tandem occlusions   10

- Intracranial ICA   20

- M1, M2   39,10

RMH Stent Retrievers
79 Consecutive Patients

- 87% TICI 2b or 3   (69/79)

- 51% 1 pass   (40/79)

  - mRS 0-2 in single pass patients (52%) (21/40)

- 1.2% ICH(parenchymal)   (1/79)

- 43% mRS 0-2   (34/79)

- Good outcome in those treated with IV tPA 52%

- 1.9   average passes

Case Example

Summary

- Key interventional predictors of good neurological outcome
  - Use of a stent retriever device as first line therapy
  - Use of a balloon guide catheter
  - Procedural speed to TICI 3 recanalization
- Key pre-interventional predictors of good neurological outcomes
  - Speed to Intervention: ASPECTS score >7 AND Incoming NIHSS
  - Use of IV-TPA prior to intervention
  - Local anesthesia

Conclusions

- Key interventional predictors of good neurological outcome
    - Use of a stent retriever device as first line therapy
    - Use of a balloon guide catheter
    - Procedural speed to TICI 3 recanalization
- Key pre-interventional predictors of good neurological outcomes
    - Speed to Intervention: ASPECTS score >7 AND Incoming NIHSS
    - Use of IV-TPA prior to intervention
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Q&A