

## EMERGENT Study

# Efficacy and Safety of a Novel Thrombectomy Device in Patients With Acute Ischemic Stroke.

A randomized, prospective, controlled, multicenter, single-blind, non-inferiority trial.

## Study Purpose

To compare the safety and efficacy of the **Thrombite™ Clot Retriever Device** with the **Solitaire FR**.

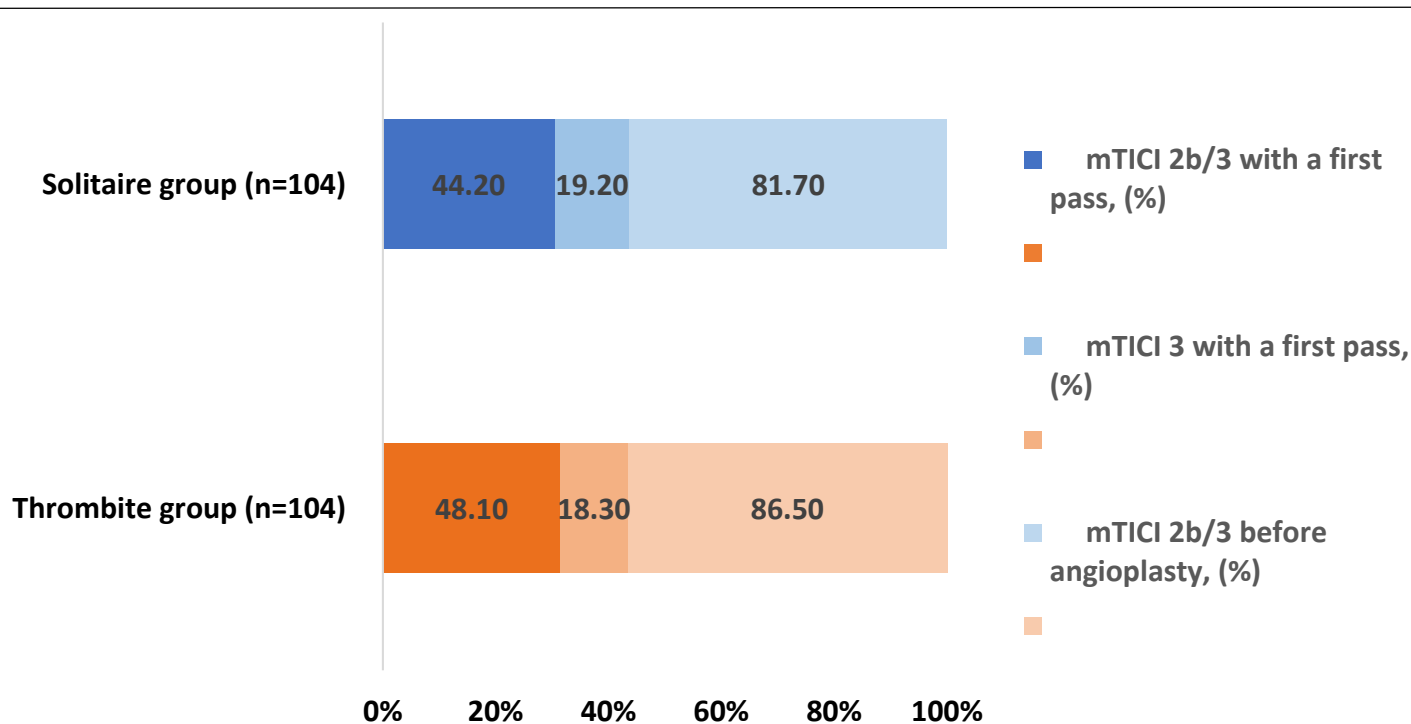
### Primary endpoint

Successful reperfusion defined as achieving modified thrombolysis in cerebral infarction (mTICI) of 2b/3.

## Study Results Demonstrated:

More patients in the Thrombite group achieved successful reperfusion (92.3 vs. 84.6%, 95% CI of difference value 0.9–16.7%,  $p < 0.0001$ ).

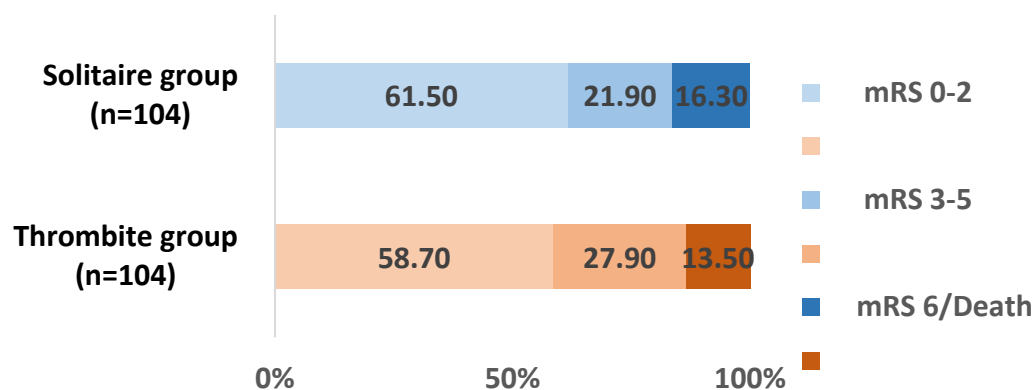
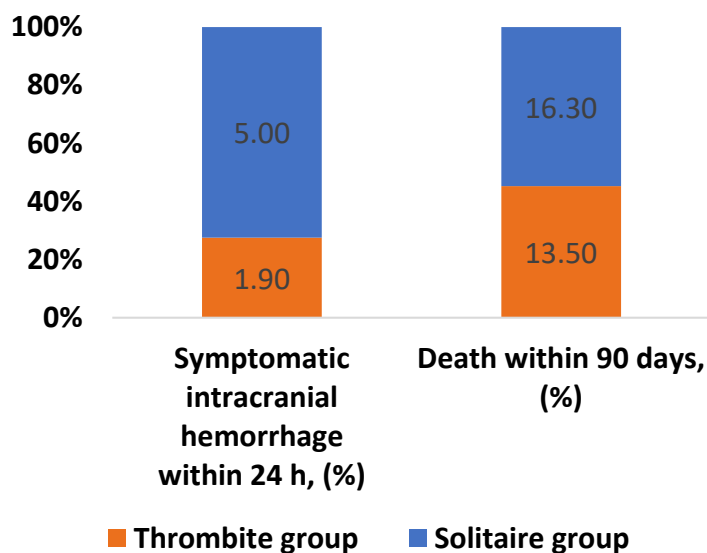
| Primary Endpoint              |                               |
|-------------------------------|-------------------------------|
| Thrombite                     | Solitaire FR                  |
| <b>92.3%</b>                  | <b>84.6%</b>                  |
| <b>SUCCESSFUL REPERFUSION</b> | <b>SUCCESSFUL REPERFUSION</b> |



First-pass effect was achieved in 39/208 patients, with no significant differences noted between the Thrombite group and the Solitaire group (18.3 vs. 19.2%, respectively).

Before angioplasty, 90 patients (86.5%) in the Thrombite group and 85 (81.7%) in the Solitaire group reached successful reperfusion ( $p = 0.343$ ).

There were no significant differences on sICH within 24 ± 6 h between the two groups. All-cause mortality within 90 days was 13.5% in the Thrombite group and 16.3% in the Solitaire group (p = 0.559).



No significant differences between groups on the NIHSS at either 24 h or 7 days and the mRS of 0–2 at 90 days.

## No significant difference in Patient Population

| Characteristic                           | Thrombite group (n = 104) | Solitaire group (n = 104) |
|--|---------------------------|---------------------------|
| Age—years, median (IQR)                  | 63.98 (53.96–71.39)       | 66.50 (55.82–72.76)       |
| Male sex, no. (%)                        | 62 (59.6%)                | 61 (58.7%)                |
| Prestroke mRS 1, no. (%)                 | 10 (9.6%)                 | 14 (13.5%)                |
| NIHSS—median (IQR)                       | 15 (12–19)                | 16 (13–19)                |
| Intracranial arterial occlusion, no. (%) |                           |                           |
| • ICA                                    | 21 (20.2%)                | 31 (29.8%)                |
| • MCA M1 segment                         | 71 (68.3%)                | 62 (59.6%)                |
| • MCA M2 segment                         | 11 (10.6%)                | 10 (9.6%)                 |
| • ACA A1 segment                         | 0 (0%)                    | 0 (0.0%)                  |
| • ACA A2 segment                         | 1 (1.0%)                  | 1 (1.0%)                  |

## Study Conclusion

In this randomized clinical trial, the Thrombite was non-inferior to the Solitaire FR in the treatment of large vessel occlusion stroke within 6 h of symptom onset.

### INDICATIONS FOR USE:

The Thrombite Clot Retriever Device is intended to restore blood flow by removing thrombus from a large intracranial vessel in patients experiencing ischemic stroke symptom onset.

Indications: acute ischemic stroke caused by large artery occlusions.



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