

The PERFECT study aimed to characterize the performance of EMBOVAC™ in the treatment of AlS in a real-world clinical setting.

PERFECT 연구는 실제 임상 환경에서 EMBOVAC™의 AIS 치료 효과를 파악하기 위해 시행되었습니다.

METHODOLOGY

Prospective, multi-center, single arm, post-market clinical follow-up study

October 2020 — July 2022



100
AIS PATIENTS WITH LVOS



11 EUROPEAN CENTERS

TECHNIQUE



Direct aspiration with EMBOVACTM was the first-line therapy. A minimum of 3 passes with EMBOVACTM were required before switching strategy.

DATA ASSESSMENTS



Imaging and procedure angiography were assessed by an independent core lab



90-day mRS assessed by an independent evaluator



Device related adverse events and symptomatic ICH assessed by an independent clinical events committee



Retrieved clot was collected per pass from 83 subjects, and clot was analyzed by an independent central clot lab

OUTCOMES



PRIMARY OUTCOME

Successful reperfusion at the end of procedure Final mTICl ≥ 2b



SECONDARY OUTCOME

- First pass mTlCl ≥ 2c
- · mRS 0-2 at 90 days
- 90-day all-cause mortality

AIS, acute ischemic stroke; LVO, large vessel occlusion; mRS, modified Rankin Scale; mTICI, modified Thrombolysis in Cerbrovascular Infarction; sICH, symptomatic intracranial hemorrhage

Lobotesis, K. et al., Direct Aspiration with EMBOVAC - First Clinical Experience and clot Composition (Results of the "PERFECT" Study. In ESMINT (2023).





RESULTS

PATIENT DEMOGRAPHICS AND BASELINE CHARACTERISTICS

Age	70.4±13.95
Sex, F	59.0% (59/100)
Pre-stroke mR\$ 0-1	98.0% (98/100)
Baseline NIHSS	14.9±6.39
Use of IV-tPA	51.0% (51/100)
Baseline ASPECT#	
0-5	15.0% (15/100)
6-7	25.0% (25/100)
8-10	60.0% (60/100)
Witnessed stroke	72.0% (72/100)
Wake-up stroke	9.0% (9/100)
Unwitnessed non-wakeup stroke	19.0% (19/100)
Occlusion Location#	
ICA & Carotid T	18.0% (18/100)
MCA, M1	71.0% (71/100)
MCA, M2	6.0% (6/100)
Other	4.0% (4/100)
Cannot determine	1.0% (1/100)

[#]core lab assessment

PROCEDURAL OUTCOMES

27.8 min

Procedure time, arterial puncture to mTICl >= 2b

2.4

Average number of total passes

2.0

Average number of EMBOVAC™ passes

ASPECT, Alberta Stroke Program Early CT Score; ICA, internal carotid artery; IV-tPA, intravenous tissue-type plasminogen activator; MCA, middle cerebral artery; mTICI, modified Thrombolysis in Cerbrovascular Infarction; mRS, modified Rankin Scale; NIHSS, National Institute of Health Stroke Scale

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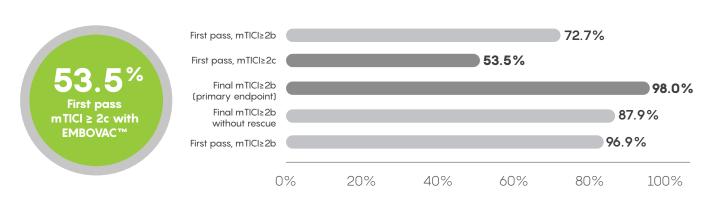


RESULTS

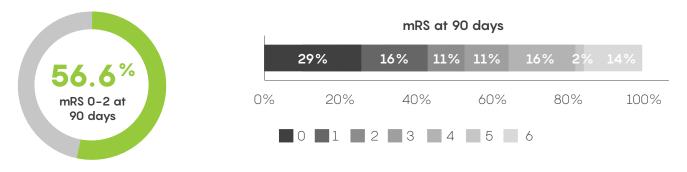
The PERFECT study demonstrated direct aspiration with EMBOVAC™ as first line therapy resulted in high rates of reperfusion, good clinical outcomes, and a strong safety profile.

PERFECT 연구는 EMBOVAC™을 사용한 direct aspiration이 first line 치료로 시행될 경우 높은 혈류재개통, 긍정적 임상 결과 및 안전성을 입증하였습니다.

ANGIOGRAPHIC OUTCOMES



CLINICAL OUTCOMES



SAFETY OUTCOMES

12.9%

All-cause mortality at 90 days^a

3 0%

Embolization to new territory 00%

Symptomatic ICH at 24-h

1.0%

Device related SAEs within 90 days^a

mRS, modified Rankin Scale; mTICI, modified Thrombolysis in Cerbrovascular Infarction; SAE, serious adverse event; sICH, symptomatic intracranial hemorrhage Lobotesis, K. et al., Direct Aspiration with EMBOVAC — First Clinical Experience and clot Composition (Results of the "PERFECT" Study. In ESMINT (2023).





^aEstimate based on Kaplan-Meier analysis