

A retrospective comparison study of Amicus, Optia and COBE Spectra for therapeutic plasma exchange

Amicus Separator Therapeutic apheresis and cell collection

Amicus was shown to effectively perform plasma exchange procedures

The Amicus and Optia had similar plasma removal efficiency

The Amicus used a lower volume of anti-coagulant when compared with the Optia



Study Parameters

- Retrospective study using Amicus, Optia and COBE Spectra
- 7 patients (5 male, 2 female)
- Data was collected to analyze plasma removal efficiency, volume of anticoagulant used and adverse events

Key Outcomes

- The Amicus device could effectively perform therapeutic plasma exchange procedures
- Amicus and Optia were similar in plasma removal efficiency and Amicus was statistically superior to Spectra
- The Amicus device used a lower volume of anticoagulant
- No adverse events were reported

Table 1

Amicus delivered high plasma removal efficiency

	Amicus (N=18)	Optia (N=44)	Spectra (N=14)
Plasma removal efficiency	79.8% (+/-8.2)*	82.9% (+/-5.7)	70.3% (+/-8.1)

* p = 0.001 vs Spectra; One-way ANOVA test and Bonferroni test.

PRE = Plasma removal efficiency= Plasma Removed / (Plasma Processed + Anticoagulant)

Table 2

Amicus used a lower volume of anticoagulant

	Amicus (N=18)	Optia (N=44)	Spectra (N=14)
Anticoagulant used	542 mL (+/-196)	687 mL (+/-120)	647 mL (+/-111)

Source: Cid J et. al. Comparison of plasma exchange procedures using three apheresis systems. Transfusion 2014, DOI: 10.1111/trf.12948

