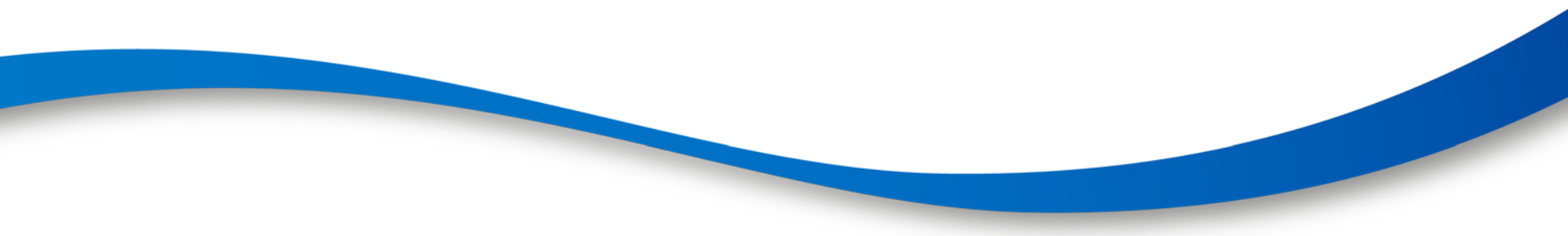


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# Evaluation of the Fresenius Amicus™ Machine for Therapeutic Apheresis Treatments

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2017

# Content

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# Fresenius Amicus™ Apheresis Device

- Automated Cell Separator Device
- Continuous flow centrifugation technology
- Used worldwide for apheresis procedures
- Study aim was to evaluate the technology as a multipurpose apheresis platform
- Evaluation period was November 2016 – April 2017



# How did we evaluate.....

- **10 TPE treatments**
  - 1 plasma volume with 4.5% HAS or octaplas
- **7 Red cell exchanges**
  - volume of red cells to achieve the target HbS post procedure
- **1 depletion/exchange**
  - target Hb and HbS post procedure
- **3 MNC collections**
  - aimed to process 2.5TBV
- Two nurses were trained and supported by Fresenius

All patients were adults



# Data collected

- TPE's – Pre and post FBC and fibrinogen
- RCX – Pre and post FBC and HbS were taken
- MNC – Volume, MNC, RBC, Plt, CD34 count in collected product and Collection Efficiency CE2 of collection
- User evaluation completed
  - device issues
  - adverse events
  - operator concerns

# Results

## TPE

Post WCC	↓ 0.49
Post Platelets	↓ 15.2
Fibrinogen	↓ 1.37

## RCX

Mean Average Pre HbS	44.6
Mean Average Post HbS	13.0
Post WCC	↓ 2.10
Post Platelets	↓ 163
Fibrinogen	↓ 0.57



# Patient and User Experience

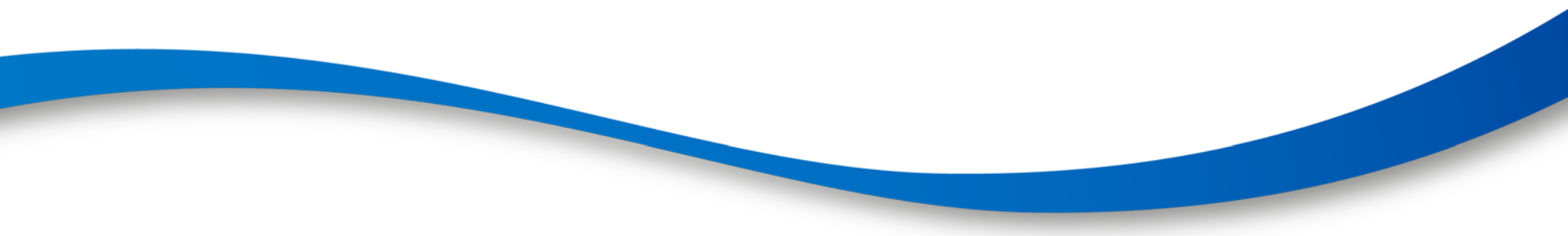
## Patient Experience

3 patients experienced adverse events

- 1 mild vasovagal reaction
- 1 moderate vasovagal reaction
- 1 moderate citrate toxicity requiring IV Calcium replacement

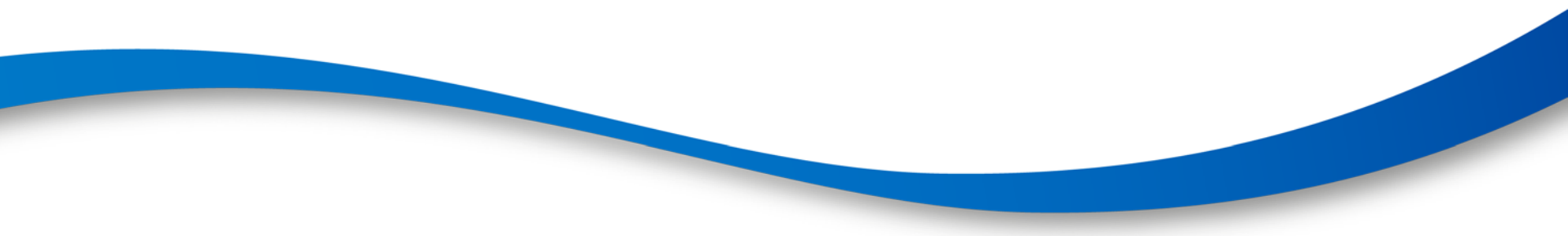
## User experience

The Amicus™ was easy to use with minimal operational issues

- harness was straightforward to load
  - the display screen instructions were clear and straightforward to follow
  - machine manoeuvrability could be better
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# Conclusion



- Fresenius Amicus™ proved to be an effective apheresis system
  - Targets were achieved in both TPE and RCX procedures
  - Post procedure changes in WCC, platelets and fibrinogen were within expected ranges for each procedure
  - Procedures were well tolerated
  - Nurses found the equipment easy to use.
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# Thank you for listening

## Any questions?

