


Apheresis Training Around the World

Marleen Neyrinck, Hans Vrieldink
AZ Delta, Roeselare, Belgium
Sanquin Blood Supply, Amsterdam, the Netherlands

Program

- Introduction
- Course for apheresis nurses
- Indonesia
- Conclusion

Introduction

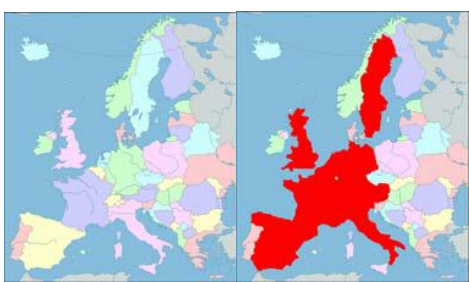
Since 2012:
JACIE accreditation

Course for apheresis nurses

Europe	Huge need for uniform course for apheresis nurses
United States of America	Cooperation to compose and build the course

Global course!

Composition of the group



Two day meeting in Amsterdam

- Training program donor apheresis nurses / operators in the Netherlands
- Learning objectives and methods
- Tour Blood Bank Sanquin Blood Supply
- Composition of the basics of the course



Composition basics of the course

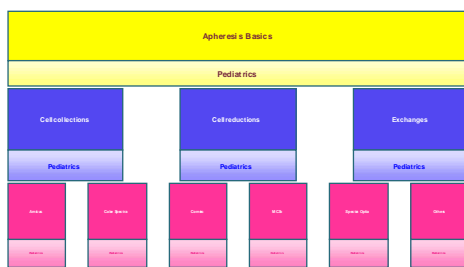
Module 1: Apheresis basics Hematology Anest. only Physiology Basic apheresis knowledge Side effects of Apheresis					
Module 2: Cell collections		Module 3: Cell reductions		Module 4: Plasma / RBC Exchanges	
Module 5: Equipment A	Module 6: Equipment B	Module 7: Equipment C	Module 8: Equipment D	Module 9: Equipment E	Module 10: Equipment F

Composition basics of the course

Remarks after discussion of the outcome in the plenary meeting

- Pediatric patients and apheresis
- Calculations
- Nursing aspects
- Quality

Composition of the course



Composition of the course

Learning objectives were made for:

- Adverse events in apheresis
- Anatomy for apheresis nurse
- Basics of apheresis
- Calculations in apheresis
- Cell reductions
- Collections of cells for cellular therapy
- Exchange procedures
- Hematology
- Nursing
- Pediatrics
- Physiology
- Quality

Course in practice

- 5th edition of ASFAs "Principles of Apheresis Technology"
- Learning objectives & slide presentations
- Translation in different languages
- "Train the Trainers"
- Test
- Certification of the course

Asia

- November – December 2013

Preparation

- Draw up of the course
- Making slides in Powerpoint files
- Check whether all learning objects discussed in Amsterdam are covered in the presentation

Course Kuala Lumpur: Back to Basics

2nd NATIONAL BLOOD APHERESIS SEMINAR: BACK TO BASICS
16th November 2013 (Saturday)

Time	Agenda	
08.00 am	Registration of Participants	
08.30 am	Welcoming Note 1. Dear Mr Tan Sri Anis Ibrahim President of Malaysian Blood Transfusion Society 2. Dear Mr Tan Sri Mohd Yusoff Deputy Director National Blood Centre	
08.45 am	Basics of Apheresis	Martien Noytink
09.30 am	Physiology in Apheresis Donation	Dr. Hans Vrieland
10.15 am	Tea Break	
10.30 am	Haematology in Apheresis	Martien Noytink
11.15 am	Apheresis Donor Selection	Dr. Norris Naim
12.00 pm	Anatomy & Side Effects in Apheresis Donation	Martien Noytink
01.00 pm	Lunch	
02.00 pm	Adverse Donor Reaction in Apheresis : Practical Experience	Dr. Nurhasanah Abdul Rahim
02.45 pm	Platelet Collection	Dr. Hans Vrieland
03.30 pm	Collection Cellular Therapy	Martien Noytink
04.15 pm	Tea Break	
04.00 pm	Therapeutic Apheresis	Dr. Hans Vrieland
04.30 pm	Questions & Answers	
04.45 pm	Closing of Seminar	

Course Kuala Lumpur: Back to Basics



Certification course for apheresis nurses/operators.

Certification Course Apheresis Nurses Indonesia

Thursday 5 December 2013	Friday 6 December 2013	Saturday 7 December 2013
8:00 Test	8:00 Nursing aspects	8:00 Test
8:30 Basics of Apheresis	8:30 Collection of platelets	8:30 Training machine
9:30 Coffee / tea break	9:30 Coffee / tea break	9:30 Training machine
10:00 Hematology	10:00 Pediatrics	10:00 Coffee / tea break
11:00 Anatomy	11:00 Lunch	10:30 Training machine
12:00 Lunch	11:30 Lunch	11:00 Lunch
12:30 Lunch	12:30 Collection for cellular therapy	12:00 Lunch
13:00 Physiology	13:00 Therapeutic apheresis: introduction	13:00 Lunch
13:30 Adverse events	13:30 Cell reduction	13:30 Certification
14:30 Coffee / tea break	14:30 Coffee / tea break	
15:00 Calculations	15:00 Exchange procedures	
16:00 Quality	16:00 Questions	
16:30 Questions	16:30 Questions	
17:00 Questions	17:00 Questions	

Participants course

- Total number of participants 71
- 39 nurses / operators
 - 35 Indonesia
 - 3 Singapore
 - 1 Cambodia
- 32 physicians
 - 31 Indonesia
 - 1 Cambodia

Results test

	Apheresis Operators / nurses		
	5-Dec-2013 (n=39)	7-Dec-2013 (n=38)	P=
Adverse events	52%	67%	0.004
Basics of apheresis	55%	72%	0.01
Calculations	52%	82%	0.004
Cell collections	54%	58%	n.s. ¹
Exchange	36%	46%	n.s.
Hematology	53%	76%	0.001
Nursing	78%	79%	n.s.
Physiology	52%	72%	0.02
Reduction of cells	55%	74%	n.d. ²

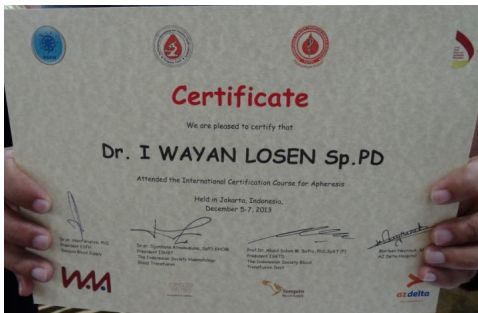
¹ not significant (paired T-test)
² not determined

Results test

	Physicians		
	5-Dec-2013 (n= 18)	7-Dec-2013 (n= 16)	P=
Adverse events	57%	78%	0.009
Basics of apheresis	55%	77%	0.01
Calculations	34%	77%	0.004
Cell collections	49%	53%	n.s. ¹
Exchange	21%	54%	n.s.
Hematology	57%	76%	0.003
Nursing	79%	82%	n.s.
Physiology	60%	85%	0.01
Reduction of cells	25%	66%	n.d. ²

¹ not significant (paired T-test)
² not determined

Results test



In conclusion

- Increased knowledge on apheresis
- 38 certified apheresis nurses
- Course also of value for physicians

Summary

- Introduction
- Course for apheresis nurses
- Indonesia
- Conclusion

Thank You !!