MEDICAL UNIVERSITY OF VIENNA

Training Programme (essential elements)

Clinical Practical Year (CPY)

at Medical University of Vienna, Austria

CPY-Tertial C

Transfusion Medicine

Valid from academic year 2022/2023

Rsponsible for the content

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This training programme applies to the subject of "Transfusion Medicine" within CPY tertial C "Electives". The training programmes for the elective subjects in CPY tertial C are each designed for a duration of 8 weeks.

3. Learning objectives (competences)

The following skills must be acquired or deepened in the subject of Transfusion Medicine during the CPY.

3.1 Competences to be achieved (mandatory)

A) History taking
   1. Taking a systematic history (symptoms, current complaints, the patient's life situation, his/her understanding of the illness and concerns, social and cultural background and illness experience)
   2. Identifying hazardous behaviour and dangerous lifestyles

B) Performance of examination techniques
   3. Assessment of vital functions (body temperature, respiration, pulse rate, blood pressure, venous pressure)
   4. Determining and assessing the suitability of blood/stem cell donors
   5. Assessing peripheral venous status
   6. Stopping haemorrhage (direct pressure on wound, pressure points on large blood vessels, pressure bandage)

C) Performance of routine skills and procedures
   7. Using appropriate hand hygiene at the workplace
   8. Peripheral intravenous cannulation
   9. Venepuncture/drawing blood
   10. Intravenous injection
   11. Handling a central venous catheter
   12. Performing and assessing a bedside test
   13. Performing and assessing pre-transfusion laboratory tests (AB0/RhD typing, antibody screening and specification, serological compatibility testing)
   14. Performing and assessing other blood group serology tests (direct anti-globulin test, titration)

D) Therapeutic measures
   15. Working with local/national and international guidelines and protocols
   16. Compliance with legal requirements (Austrian Physicians' Act, Hospitals Act, Blood Donor Regulation, Blood Safety Act)
   17. Involvement in the prescription of therapeutic apheresis
   18. Involvement in the collection of haematopoietic stem cells
   19. Involvement in the collection of blood products

E) Communication with patient/team
   20. Communicating with severely ill patients
   21. Giving main information elements necessary to get informed consent from patients and blood donors

F) Documentation
   22. Writing letters for transfer or discharge of patient
   23. Specific documentation of clinical procedures (e.g. bedside test)

3.2 Optional competences

In addition to the competences that are mandatory to achieve, further competences from the following list may also be acquired.
For example:

1. Performing and assessing transplantation immunology laboratory methods
2. Performing and assessing molecular genetic procedures in immunohaematology
3. Performing and assessing granulocyte immunology tests
4. Performing and assessing thrombocyte immunology tests
5. Performing and assessing flow cytometry tests
6. Assessing infection serology for blood donors
7. Involvement in the release of blood components for use
8. Retrieving patient-specific information from clinical data system
9. Counselling patients and blood donors in relation to lifestyle (diet, physical activity, nutrition, smoking, alcohol, illicit drugs)

4. Information on verification of performance, on-going assessments

4.1 The following aspects can be assessed in the Mini-CEX:

1. Taking a systematic history (symptoms, current complaints, the patient's life situation, his/her understanding of the illness and concerns, social and cultural background and illness experience)
2. Giving main information elements necessary to get informed consent from patients and blood donors
3. Assessing peripheral venous status This

list can be expanded accordingly.

4.2 The following issues can be assessed in the DOPS

1. Using appropriate hand hygiene at the workplace
2. Peripheral intravenous cannulation
3. Performing and assessing a bedside test
4. Performing and assessing pre-transfusion laboratory tests (AB0/RhD typing, antibody screening and specification, serological compatibility testing)
5. Performing and assessing other blood group serology tests (direct anti-globulin test, titration)
6. Handling a central venous catheter
7. Venepuncture/drawing blood This list can be expanded accordingly.

5. Subject-specific details regarding the CPY tasks

The learning objectives are designed to cover the key aspects of the specialist subject of Transfusion Medicine. In addition to the most important laboratory diagnostic content, they should cover key clinical therapeutic tasks as well as the collection of blood and stem cells. Many of the skills and knowledge acquired here (e.g. haemotherapy, basics of immunohaematology) are of general importance for broad areas of clinical medicine.

The following CPY tasks must be completed in the subject of Transfusion Medicine.

(A) Active task – mandatory component		**Each 8 weeks**
Patient presentation/discussion of findings (brief)		12x
Concluding Patient presentation (detailed)		2x
Prepare discharge letter		2x
Preparation of a specific chart/findings request in order to clarify a suspected diagnosis, including differential diagnosis (laboratory)		2x
"State of the Art" presentation on the pathogenesis, diagnosis, therapy, prevention etc. of diseases based on specific patients (20 min)		2x
A) Active tasks – mandatory elective component	**Points**	**Each 8 weeks**
Patient presentation/discussion of findings (brief)	2	*Optional tasks amounting to at least 15 points from at least 2 categories*
Concluding patient presentation (detailed)	5	
Preparation of report of distinct medical parameters	3	
"State of the Art" presentation on the pathogenesis, diagnosis, therapy, prevention etc. of diseases based on specific patients (20 min)	8	
Presentation of article in Journal Club	6	

(B) Attendance at training and professional development events – mandatory component		**Each 8 weeks**
Further training/intern training		2x
(B) Attendance at training and professional development events – mandatory elective component	**Points**	**Each 8 weeks**
Further training/intern training	2	*Optional tasks amounting to at least 4 points format least 2 categories*
Participation in state-of-the-art presentations based on specific patients	1	
Attendance at Journal Club	1	
External training and professional development events per ½ day (congresses, conferences etc.)	3	
Course attendance per ½ day (blood group serology course, self-management etc.)	3	
Non-live events (e.g. Webinars)	1	