جمهورية مصر العربية

وزارة التعليم العالي

الوزير

قـــرار وزاري

رقم (٦٧٦) بتاريخ ٣ / ٤ /٢٠٢٢

بشأن تعديل اللائحة الداخلية لكلية الطب جامعة المنصورة

(مرحلة الدراسات العليا) بنظام الساعات المعتمدة

وزير التعليم العالي والبحث العلمي ورئيس المجلس الأعلى للجامعات

** بعد الاطلاع على القانون رقم ٤٩ لسنة ١٩٧٢ في شأن تنظيم الجامعات والقوانين المعدلة له.

** وعلى قرار رئيس الجمهورية رقم ٨٠٩ لسنة ١٩٧٥ بإصدار اللائحة التنفيذيـــة لقـــانون تنظـــيم الجامعات والقرارات المعدلة له.

** وعلى القرار الوزاري (٦٩٤) بتاريخ ٢٠١١/٤/٣ بشأن إصدار اللائحة الداخلية لكليـــة الطـــب جامعة المنصورة (مرحلة الدراسات العليا) بنظام الساعات المعتمدة ، والقرارات المعدلة له.

** وعلى موافقة مجلس جامعة المنصورة بجلستيه بتاريخ ٢٠٢٠/٧/٢٧، ٢٠٢١/٨/٢

** وعلى موافقة لجنة قطاع الدراسات الطبية بجلستيها بتاريخ ٢٠٢١/١١/٨ ، ٢٠٢١/١٢/٢٧

** وعلى موافقة المجلس الأعلى للجامعات بجلسته بتاريخ ٢٠٢٢/٢/١٧

قرر

(المادة الأولى)

يضاف مادة جديدة تحت رقم (٣ مكرر) إلي اللائحة الداخلية لكلية الطب جامعة المنصـــورة مرحلـــة الدراسات العليا (بنظام الساعات المعتمـــدة) الصـــادرة بـــالقرار الـــوزاري رقـــم (٦٩٤) بتـــاريخ ٢٠١١/٤/٣ علي النحو التالي:

مادة (٣ مكرر) الدبلومات المهنية

تمنح جامعة المنصورة بناء علي طلب كلية الطب البشري الدبلومات المهنية الأتية:-

١- .....

٢- .....

٣- مكافحة العدوي

٤- أمراض الأوعية الدموية المخية والسكته الدماغية

٥- التغذية الإكلينيكية

٦- زراعة نخاع العظام

٧- مجال طب الشبكية

(المادة الثانية)

يلحق باللائحة الداخلية المشار إليها بعالية الخطة الدراسية والإمتحانية المرفقة والخاصة بالدبلومات المهنية الآتية (مكافحة العدوي - أمراض الأوعية الدموية المخية والسكته الدماغية -التغذية الإكلينيكية زراعة نخاع العظام - مجال طب الشبكية)

(المادة الثالثة)

على جميع الجهات المختصة تنفيذ هذا القرار.

وزير التعليم العالي والبحث العلمي

ورئيس المجلس الأعلى للجامعات

(أ.د/ خالد عبد الغفار)

COURSE SPECIFICATION

Postgraduate Professional Diploma Degree of Hematopoietic Stem Cell Transplantation

Faculty of Medicine- Mansoura University

(A) Administrative information

(1) Programme offering the course.	Diploma of Hematopoietic Stem Cell Transplantation
(2) Department offering the programme.	Internal Medicine Department
(3) Department responsible for teaching the course.	The Bone Marrow Transplantation Unit
(4) Parts of the programme.	4 semesters in two years
(5) Date of approval by the Department`s council	2020
(6) Date of last approval of programme specification by Faculty council	2020
(7) Course title.	Hematopoietic Stem Cell Transplantation
(8) Course code.	BMT410
(9) Total teaching hours.	300 lectures-360 practical
(10) Credit hours	32

(B) Professional information

(1) Course Aims:

The broad aims of the course are as follows:

The broad aims of the course are to provide the candidate with

1. Medical knowledge and skills essential for the practice of Hematopoietic Stem Cell Transplantation (HSCT) efficiently and properly according to the international standards
2. Skills necessary for proper diagnosis and management of patients in the field of HSCT including diagnostic, problem solving and decision making.
3. Ethical principles related to the practice in this specialty.
4. Maintenance of abilities necessary for continuous medical education.

(2) Intended Learning Outcomes (ILOs):

Intended learning outcomes (ILOs); Are four main categories: knowledge & understanding to be gained, intellectual qualities, professional/practical and transferable skills.

On successful completion of the course, the candidate will be able to:

A- Knowledge and Understanding

A1: To identify structure of the bone marrow, the hematopoietic microenvironment and the lymphoid tissues.

A2: To describe the spectrum of clinical symptomatology and signs related to HSCT problems

A3: To recognize the clinical spectrum of common hematological disorders with multisystem reflection.

A4: To develop the concept of emergency management of acute and chronic complications of HSCT

A5: To identify the principles of stem cell processing and stem cell infusion

A6: To explain etiology, epidemiology, natural history, diagnosis, pathology, staging of neoplastic diseases and benign disorders indicated for HSCT

A7: To stratify patients according to their risk categories at time of diagnosis to be able to determine the patient eligibility for a HSCT as part of the therapeutic approach

B- Intellectual skills

B1: To correlate clinical information with cytology, histology, and immunodiagnostic imaging techniques.

B2: To interpret the results of blood smears, bone marrow aspiration, and biopsy.

B3: To interpret results of HLA typing and histocompatibility results for proper selection of a suitable donor for an allogeneic transplant

B4. To interpret results of chimerism analysis to document engraftment after an allogeneic HSCT

C- Professional/practical skills

C1: To demonstrate competence in the selection of patients eligible for transplantation

C2: To demonstrate competence in the performance and management of different complications of HSCT

C3: To apply the following:

- C3a: Apheresis procedures
- C3b: Performance and interpretation of HLA typing
- C3c: Blood banking and current blood bank practice;
- C3d: Clinical experience in bone marrow or peripheral stem cell harvest for transplantation;
- C3e: Formal instruction and clinical experience in allogeneic HSCT
- C3f: Formal instruction and clinical experience and autologous bone marrow transplantation
- C3f: The indications, contraindications, limitations, complications, techniques, and interpretation of results of those diagnostic and therapeutic procedures integral to the discipline.
- C3g: To educate patients about the rationale, technique, and complications of procedures and in obtaining procedure-specific informed consent.

D- Communication & Transferable skills

D1: Demonstrate compassion, integrity, and respect for all human rights and treat all subjects equally regardless to their believes, culture and behavior.

D2: Communicate effectively with patients, families, and the public.

D3: Communicate effectively with physicians, other health professionals, and health related agencies.

D4: Apply safety measures during practice.

D4: Apply infection control measures during practice

D5: Maintain comprehensive, timely and legible medical records

D6: Conduct an effective lecture, presentation, case management according to the known standards and time schedule and participate in CME program and perform self-appraisal.

D7: To participate in a multidisciplinary case management conference or discussion

(3) Course content:

I. Semester I: The Basics of the Hematopoietic Stem Cell Transplantation

II. Semester II: The Hematopoietic stem cells and the basics of transfusion

III. Semester III: The immunological aspects and the applications of the Hematopoietic stem cell transplantation

IV. Semester IV: The Complications of the Hematopoietic stem cell transplantation

Subjects	Code	Lectures	Clinical	Laboratory	Seminars	Total Teaching Hours
[I] Semester I:						
(1) General about HSCT	BMT410B	3			2	10
(2) Pharmacological basis for high- dose chemotherapy		2	1		3	5
(3) Preparative regimens		2	1		3	12
(4) Immunosuppressive agents		2		2		8
(5) Histocompatibility		2	2			14
(6) Documentation of engraftment and characterization of chimerism		2	2		2	16
(7) Hematopoietic cell donors		2	2		3	10
Logbook activities including clinical examinations, seminars, conferences, and cases presentations						
[II] Semester II:						
(1) Mobilization of hematopoietic stem cells	BMT410S	3	4	2	2	22
(2) Hematopoietic cell recruitment, processing and transplantation		5	6	3	3	32
(3) Cryopreservation of hematopoietic stem cells		4	4	3	2	25
(4) Principles of transfusion before and after HSCT and management of blood group incompatibility		3	2		3	16
Logbook activities including clinical examinations, seminars, conferences, and cases presentations						

III. Semester III.						
(1) The pathophysiology of Graft-versus-Host disease	BMT410A	2	2		3	14
(2) Management of Graft-vs-Host-disease		2	2		3	12
(3) Graft Versus Tumor response		2	2		2	12
(4) Allogeneic HSCT for acquired diseases		3			4	12
(5) Allogeneic HSCT for inherited diseases		2			3	10
(6) Autologous HSCT for acquired diseases		2			2	10
Logbook activities including clinical examinations, seminars, conferences, and cases presentations						
Semester IV.						
(1) Infections after HSCT	BMT410C	2	1		2	8
(2) Gastrointestinal complications		2	1		2	8
(3) Hepatic complications		2	1		2	8
(4) Pulmonary complications		2	1		2	10
(5) Neurological complications		2	1		2	10
(6) Delayed complications		5	1		2	16
Logbook activities including clinical examinations, seminars, conferences, and cases presentations						

4. Teaching methods:

4.1. Power Point presentation.

4.2. Clinical training

4.3. Laboratory training

4.4. Case discussion.

5. Assessment methods:

5.1. Written exam for assessment of knowledge, intellectual skills

5.2. Oral exam for assessment of knowledge, intellectual skills

5.3. Clinical exam for assessment of knowledge, intellectual and practical skills.....etc)

5.4. MCQ exam continuous assessment

Assessment schedule: At end of each semester

5.5. Final exam

Written exam: 100 marks

Oral exam: 60 marks

Clinical exam 60 marks

MCQ exam: 80 marks

Total: 300 marks

6. References of the course:

- Text book: Thomas' Hematopoietic Cell Transplantation book
- Hand books:

2019_Book_TheEBMTHandbook

ABMT-GEN-029 ABMT Clinic Daily Assessment of Adult Stem Cell Transplant

BBMT Handbook Comprehensive Guide for Patient Care 2nd ed 2015

Parenteral therapy Manual 1st edition 2011

Establishing a Hematopoietic Stem Cell Transplantation Unit, a practical guide

7. Facilities and resources mandatory for course completion.

-Lecture Halls.

-Data show.

-Equipped Laboratory.

Course Supervisor.

Prof Mohamed Nasr

Course coordinators.

Prof. Sameh Shamaa

Prof. Mohamed Nasr

Prof. Emad Azmy

Head of the Department.

Prof. Aymen Menesy

Date of 1st approval 2020

Date of last approval 2020

COURSE SPECIFICATION

Postgraduate Professional Diploma Degree of Hematopoietic Stem Cell Transplantation

Faculty of Medicine- Mansoura University

(C) Administrative information

(11) Programme offering the course.	Diploma of Hematopoietic Stem Cell Transplantation
(12) Department offering the programme.	Internal Medicine Department
(13) Department responsible for teaching the course.	The Bone Marrow Transplantation Unit
(14) Part of the programme.	Semester I
(15) Date of approval by the Department`s council	2020
(16) Date of last approval of programme specification by Faculty council	2020
(17) Course title.	Hematopoietic Stem Cell Transplantation
(18) Course code.	BMT410B
(19) Total teaching hours.	75 lectures-90 practical
(20) Credit hours	5 hrs theoretical-3 hr practical

(D) Professional information

(4) Course Aims:

The broad aims of the course are as follows:

The broad aims of the course are to provide the candidate with

5. General medical knowledge and skills essential for the practice of Hematopoietic Stem Cell Transplantation (HSCT) efficiently and properly according to the international standards
2. To give the candidate knowledge and competencies related to pharmacological basis of high-dose chemotherapy and the preconditioning regimens
3. To give our candidate knowledge and competencies related to immunosuppressive agents
4. To give our candidate knowledge and competencies related to donor selection for a bone marrow transplant

(5) Intended Learning Outcomes (ILOs):

Intended learning outcomes (ILOs); Are four main categories: knowledge & understanding to be gained, intellectual qualities, professional/practical and transferable skills.

On successful completion of the course, the candidate will be able to:

A- Knowledge and Understanding

A1: Identify structure of the bone marrow, the hematopoietic microenvironment and the lymphoid tissues.

A2: Describe the spectrum of clinical symptomatology and signs related to HSCT problems

A3: Recognize the clinical spectrum of common hematological disorders with multisystem reflection.

A4: Develop the concept of emergency management of acute and chronic complications of HSCT

A5: Understand the pharmacological basis of high-dose chemotherapy

A6: Understand the pharmacological basis of immunosuppressive drugs

B- Intellectual skills

B1: To interpret the results of blood smears, bone marrow aspiration, and biopsy.

B3: To interpret results of HLA typing

B3: To interpret results of chimerism analysis

B4: To get competency and skills in identifying the proper donor for an allogeneic HSCT

C- Professional/practical skills

C1: To demonstrate competence in the selection of patients eligible for transplantation

C2: To demonstrate competence in the selection of suitable donor

C3: To apply the following:

C3a: Performance and interpretation of HLA typing

C3b: Formal instruction and clinical experience in allogeneic and autologous bone marrow

C3c: The indications, contraindications, limitations, complications, techniques, and interpretation of results of those diagnostic and therapeutic procedures integral to the discipline.

C3d: To educate patients about the rationale, technique, and complications of procedures and in obtaining procedure-specific informed consent.

D- Communication & Transferable skills

D1: Demonstrate compassion, integrity, and respect for all human rights and treat all subjects equally regardless to their believes, culture and behavior.

D2: Communicate effectively with patients, families, and the public.

D3: Communicate effectively with physicians, other health professionals, and health related agencies.

D4: Apply safety and infection control measures during practice.

D5: Maintain comprehensive, timely, and legible medical records, if applicable

D6: Conduct an effective lecture, presentation, case management according to the known standards and time schedule and participate in CME program and perform self-appraisal.

D7: To participate in a multidisciplinary case management conference or discussion

(6) Course content:

Semester I: The Basics of the Hematopoietic Stem Cell Transplantation

Subjects	Code	Lectures	Clinical	Laboratory	Seminars	Total Teaching Hours
(1) General about HSCT	BMT410B	3			2	10
(2) Pharmacological basis for high- dose chemotherapy		2	1			5
(3) Preparative regimens		2	1		3	12
(4) Immunosuppressive agents		2	2			8
(5) Histocompatibility		2	2		3	14
(6) Documentation of engraftment and characterization of chimerism		2	2	2	2	16
(7) Hematopoietic cell donors		2			3	10
Logbook activities including clinical examinations, seminars, conferences, and cases presentations						

4. Teaching methods:

4.1. Power Point presentation.

4.2. Laboratory training

4.3. Case discussion.

5. Assessment methods:

MCQ exam for continuous assessment

Assessment schedule: at end of semester

Assessment 1: week/month: 12th week

Percentage of each assessment to the total mark:

MCQ exam: 20 marks

6. References of the course:

- Text book: Thomas' Hematopoietic Cell Transplantation book
- Hand books:

  2019_Book_TheEBMTHandbook

  ABMT-GEN-029 ABMT Clinic Daily Assessment of Adult Stem Cell Transplant

  BBMT Handbook Comprehensive Guide for Patient Care 2nd ed 2015

  Parenteral therapy Manual 1st edition 2011

  Establishing a Hematopoietic Stem Cell Transplantation Unit, a practical guide

7. Facilities and resources mandatory for course completion:

-Lecture Halls.

-Data show.

-Equipped Laboratory.

Course Supervisor:
Prof Mohamed Nasr

Course coordinators:
Prof. Sameh Shamaa
Prof. Mohamed Nasr
Prof. Emad Azmy

Head of the Department:
Prof. Aymen Menesy

Date of 1st approval 2020
Date of last approval 2020

COURSE SPECIFICATION

Postgraduate Professional Diploma Degree of Hematopoietic Stem Cell Transplantation

Faculty of Medicine- Mansoura University

(E) Administrative information

(21) Programme offering the course.	Diploma of Hematopoietic Stem Cell Transplantation
(22) Department offering the programme.	Internal Medicine Department
(23) Department responsible for teaching the course.	The Bone Marrow Transplantation Unit
(24) Part of the programme.	Semester II
(25) Date of approval by the Department`s council	2020
(26) Date of last approval of programme specification by Faculty council	2020
(27) Course title.	Hematopoietic Stem Cell Transplantation
(28) Course code.	BMT410S
(29) Total teaching hours.	95 hrs lectures-90 practical
(30) Credit hours	6.5 hr theoretical- 3 practical

(F) Professional information

(7) Course Aims:

The broad aims of the course are as follows:

The broad aims of the course are to provide the candidate with

7. Medical knowledge and skills essential for the practice of Hematopoietic Stem Cell Transplantation (HSCT) efficiently and properly according to the international standards
8. Skills necessary for mobilization and recruitment of stem cells
9. Skills necessary for cryopreservation of stem cells
4. The hematopoietic stem cells transplant procedure

(8) Intended Learning Outcomes (ILOs):

Intended learning outcomes (ILOs); Are four main categories: knowledge & understanding to be gained, intellectual qualities, professional/practical and transferable skills.

On successful completion of the course, the candidate will be able to:

A- Knowledge and Understanding

A1: Identify the principles of stem cell recruitment and processing

A2: Get the skills of cryopreservation of the stem cells

A3: Get the confidence and the skills of stem cell infusion

A4: Identify the principles of transfusion before, during and after HSCT

A5: Identify and manage problems related to blood group incompatibility

B- Intellectual skills

B1: Interpretation of results stem cell collections

B2: Calculation of the number of the collected CD34 cells

B4: Prediction of the outcome in relation to the number of the collected CD34 cells

B3: Principles of transfusion and prediction of complications according to the degree of incompatibility

C- Professional/practical skills

C1: To apply the following:

- C1a: Apheresis procedures
- C1b: Performance and interpretation of HLA typing
- C1c: Blood banking and current blood bank practice;
- C1d: Clinical experience in bone marrow or peripheral stem cell harvest for transplantation;
- C1e: Formal instruction and clinical experience in allogeneic and autologous bone marrow
- C1f: The indications, contraindications, limitations, complications, techniques, and interpretation of results of those diagnostic and therapeutic procedures integral to the discipline.

D- Communication & Transferable skills

D1: Demonstrate compassion, integrity, and respect for all human rights and treat all subjects equally regardless to their believes, culture and behavior.

D2: Communicate effectively with patients, families, and the public.

D3: Communicate effectively with physicians, other health professionals, and health related agencies.

D4: Apply safety and infection control measures during practice.

D5: Maintain comprehensive, timely, and legible medical records

D6: Conduct an effective lecture, presentation, case management according to the known standards and time schedule and participate in CME program and perform self-appraisal.

D7: To participate in a multidisciplinary case management conference or discussion

(9) Course content:

Semester II: The Hematopoietic stem cells and the basics of transfusion

Subjects	Code	Lectures	Clinical	Laboratory	Seminars	Total Teaching Hours
Semester II:						
(1) Mobilization of Hematopoietic stem cells	BMT410S	3	4	2	2	22
(2) Hematopoietic cell recruitment, processing and transplantation		5	6	3	3	32
(3) Cryopreservation of hematopoietic stem cells		4	4	3	2	25
(4) Principles of transfusion before and after HSCT and management of blood group incompatibility		3	2		3	16
Logbook activities including clinical examinations, seminars, conferences, and cases presentations						

4. Teaching methods:

4.1. Power Point presentation.

4.2: Laboratory training

4.3: Case discussion.

5. Assessment methods.

MCQ exam for continuous assessment

Assessment schedule: at end of the semester

Assessment 2: week/month 24th week

Assessment method: MCQ exam: 20 marks

6. References of the course:

- Text book: Thomas' Hematopoietic Cell Transplantation book
- Hand books:

  2019_Book_TheEBMTHandbook

  ABMT-GEN-029 ABMT Clinic Daily Assessment of Adult Stem Cell Transplant

  BBMT Handbook Comprehensive Guide for Patient Care 2nd ed 2015

  Parenteral therapy Manual 1st edition 2011

  Establishing a Hematopoietic Stem Cell Transplantation Unit, a practical guide

7. Facilities and resources mandatory for course completion:

-Lecture Halls.

-Data show.

-Equipped Laboratory.

Course Supervisor:

Prof Mohamed Nasr

Course coordinators:

Prof. Sameh Shamaa

Prof. Mohamed Nasr

Prof. Emad Azmy

Head of the Department:

Prof. Aymen Menesy

Date of 1st approval 2020

Date of last approval 2020

COURSE SPECIFICATION

Postgraduate Professional Diploma Degree of Hematopoietic Stem Cell Transplantation

Faculty of Medicine- Mansoura University

(G) Administrative information

(31) Programme offering the course.	Diploma of Hematopoietic Stem Cell Transplantation
(32) Department offering the programme.	Internal Medicine Department
(33) Department responsible for teaching the course.	The Bone Marrow Transplantation Unit
(34) Part of the programme.	Semesters III
(35) Date of approval by the Department`s council	2020
(36) Date of last approval of programme specification by Faculty council	2020
(37) Course title.	Hematopoietic Stem Cell Transplantation
(38) Course code.	BMT410A
(39) Total teaching hours.	70 lectures-90 practical
(40) Credit hours	4.5 hrs theoretical-3 practical

(H) Professional information

(10) Course Aims:

The broad aims of the course are as follows:

The broad aims of the course are to provide the candidate with

10. Medical knowledge and skills essential for the practice of Hematopoietic Stem Cell Transplantation (HSCT) efficiently and properly according to the international standards
11. Skills necessary for proper diagnosis and management of patients in the field of HSCT including diagnostic, problem solving and decision making.
12. Ethical principles related to the practice in this specialty.
13. Maintenance of abilities necessary for continuous medical education.

(11) Intended Learning Outcomes (ILOs):

Intended learning outcomes (ILOs); Are four main categories: knowledge & understanding to be gained, intellectual qualities, professional/practical and transferable skills.

On successful completion of the course, the candidate will be able to:

A- Knowledge and Understanding

A1: To describe the spectrum of clinical symptomatology and signs related to HSCT problems

A3: To recognize the clinical spectrum of common hematological disorders with multisystem reflection.

A4: To develop the concept of emergency management of acute and chronic complications of HSCT

A5: To identify the principles of stem cell processing and stem cell infusion

A6: To explain etiology, epidemiology, natural history, diagnosis, pathology, staging of neoplastic diseases and benign disorders indicated for HSCT

A7: To stratify patients according to their risk categories at time of diagnosis to be able to determine the patient eligibility for a HSCT as part of the therapeutic approach

B- Intellectual skills

B1: To correlate the clinical information and the known comorbidity scores with the expected outcome of the transplant.

B2: Early identification of complications

B3: Identification and calculation of the grade and stage of graft-vs-host-disease

C- Professional/practical skills

C1: To demonstrate competence in the selection of patients eligible for transplantation

C2: To demonstrate competence in the performance and management of different complications of HSCT

C3: To apply the following:

C3a: Formal instruction and clinical experience in autologous bone marrow transplantation

C3b: Formal instruction and clinical experience in allogeneic bone marrow transplantation

C3c: The indications, contraindications, limitations, complications, techniques, and interpretation of results of those diagnostic and therapeutic procedures integral to the discipline.

C3d: To educate patients about the rationale, technique, and complications of procedures and in obtaining procedure-specific informed consent.

D- Communication & Transferable skills

D1: Demonstrate compassion, integrity, and respect for all human rights and treat all subjects equally regardless to their believes, culture and behavior.

D2: Communicate effectively with patients, families, and the public.

D3: Communicate effectively with physicians, other health professionals, and health related agencies.

D4: Apply safety and infection control measures during practice.

D5: Maintain comprehensive, timely, and legible medical records, if applicable

D6: Conduct an effective lecture, presentation, case management according to the known standards and time schedule and participate in CME program and perform self-appraisal.

D7: To participate in a multidisciplinary case management conference or discussion

(12) Course content:

Semester III: The immunological aspects and the applications of the Hematopoietic stem cell transplantation

Subjects	Code	Lectures	Clinical	Laboratory	Seminars	Total Teaching Hours
Semester III:						
(1) The pathophysiology of Graft-versus-Host disease	BMT410A	2	2		3	14
(2) Management of Graft-vs-Host-disease		2	2		3	12
(3) Graft Versus Tumor response		2	2		2	12
(4) Allogeneic HSCT for acquired diseases		3			4	12
(5) Allogeneic HSCT for inherited diseases		2			3	10
(6) Autologous HSCT for acquired Diseases		2			2	10
Logbook activities including clinical examinations, seminars, conferences, and cases presentations						

4. Teaching methods:

4.1. Power Point presentation.

4.2: Laboratory training

4.3: Case discussion.

5. Assessment methods:

MCQ exam for continuous assessment

Assessment schedule: at end of the semester

Assessment 3: week/month 36th week

Assessment method: MCQ exam: 20 marks

6. References of the course:

- Text book: Thomas' Hematopoietic Cell Transplantation book
- Hand books:

  2019_Book_TheEBMTHandbook

  ABMT-GEN-029 ABMT Clinic Daily Assessment of Adult Stem Cell Transplant

  BBMT Handbook Comprehensive Guide for Patient Care 2nd ed 2015

  Parenteral therapy Manual 1st edition 2011

  Establishing a Hematopoietic Stem Cell Transplantation Unit, a practical guide

7. Facilities and resources mandatory for course completion:

-Lecture Halls.

-Data show.

-Equipped Laboratory.

Course Supervisor:

Prof Mohamed Nasr

Course coordinators:

Prof. Sameh Shamaa

Prof. Mohamed Nasr

Prof. Emad Azmy

Head of the Department:

Prof. Aymen Menesy

Date of 1st approval 2020

Date of last approval 2020

COURSE SPECIFICATION

Postgraduate Professional Diploma Degree of Hematopoietic Stem Cell Transplantation

Faculty of Medicine- Mansoura University

(I) Administrative information

(41) Programme offering the course.	Diploma of Hematopoietic Stem Cell Transplantation
(42) Department offering the programme.	Internal Medicine Department
(43) Department responsible for teaching the course.	The Bone Marrow Transplantation Unit
(44) Part of the programme.	Semesters IV
(45) Date of approval by the Department`s council	2020
(46) Date of last approval of programme specification by Faculty council	2020
(47) Course title.	Hematopoietic Stem Cell Transplantation
(48) Course code.	BMT410C
(49) Total teaching hours.	60 lectures-90 practical
(50) Credit hours	4 theoretical-3 practical

(J) Professional information

(13) Course Aims:

The broad aims of the course are as follows:

The broad aims of the course are to provide the candidate with

14. Medical knowledge and skills essential for the practice of Hematopoietic Stem Cell Transplantation (HSCT) efficiently and properly according to the international standards
15. Skills necessary for proper diagnosis and management of patients in the field of HSCT including diagnostic, problem solving and decision making.
16. Ethical principles related to the practice in this specialty.
17. Maintenance of abilities necessary for continuous medical education.

(14) Intended Learning Outcomes (ILOs):

Intended learning outcomes (ILOs); Are four main categories: knowledge & understanding to be gained, intellectual qualities, professional/practical and transferable skills.

On successful completion of the course, the candidate will be able to:

A- Knowledge and Understanding

A1: To describe the spectrum of clinical symptomatology and signs related to HSCT problems

A3: To recognize the clinical spectrum of common hematological disorders with multisystem reflection.

A4: To develop the concept of emergency management of acute and chronic complications of HSCT

A5: To identify the principles of stem cell processing and stem cell infusion

A6: To explain etiology, epidemiology, natural history, diagnosis, pathology, staging of neoplastic diseases and benign disorders indicated for HSCT

A7: To stratify patients according to their risk categories at time of diagnosis to be able to determine the patient eligibility for a HSCT as part of the therapeutic approach

B- Intellectual skills

B1: To correlate the clinical information and the known comorbidity scores with the expected outcome of the transplant.

B2: Early identification of complications

B3: Identification and calculation of the grade and stage of graft-vs-host-disease

C- Professional/practical skills

C1: To demonstrate competence in the selection of patients eligible for transplantation

C2: To demonstrate competence in the performance and management of different complications of HSCT

C3: To apply the following:

C3a: Formal instruction and clinical experience in autologous bone marrow transplantation

C3b: Formal instruction and clinical experience in allogeneic bone marrow transplantation

C3c: The indications, contraindications, limitations, complications, techniques, and interpretation of results of those diagnostic and therapeutic procedures integral to the discipline.

C3d: To educate patients about the rationale, technique, and complications of procedures and in obtaining procedure-specific informed consent.

D- Communication & Transferable skills

D1: Demonstrate compassion, integrity, and respect for all human rights and treat all subjects equally regardless to their believes, culture and behavior.

D2: Communicate effectively with patients, families, and the public.

D3: Communicate effectively with physicians, other health professionals, and health related agencies.

D4: Apply safety and infection control measures during practice.

D5: Maintain comprehensive, timely, and legible medical records, if applicable

D6: Conduct an effective lecture, presentation, case management according to the known standards and time schedule and participate in CME program and perform self-appraisal.

D7: To participate in a multidisciplinary case management conference or discussion

(15) Course content:

Semester IV: The Complications of the Hematopoietic stem cell transplantation

Subjects	Code	Lectures	Clinical	Laboratory	Seminars	Total Teaching Hours
Semester IV:						
(1) Infections after HSCT	BMT410C	2	1		2	8
(2) Gastrointestinal complications		2	1		2	8
(3) Hepatic complications		2	1		2	8
(4) Pulmonary complications		2	1		2	10
(5) Neurological complications		2	1		2	10
(6) Delayed complications		5	1		2	16
Logbook activities including clinical examinations, seminars, conferences and cases presentations						

4. Teaching methods:

4.1. Power Point presentation.

4.2: Clinical training

4.3: Case discussion.

5. Assessment methods:

MCQ exam for continuous assessment

Assessment schedule: at end of the semester

Assessment 4: week/month 48th week

Assessment method: MCQ exam: 20 marks

6. References of the course:

- Text book: Thomas' Hematopoietic Cell Transplantation book
- Hand books:

2019_Book_TheEBMTHandbook

ABMT-GEN-029 ABMT Clinic Daily Assessment of Adult Stem Cell Transplant

BBMT Handbook Comprehensive Guide for Patient Care 2nd ed 2015

Parenteral therapy Manual 1st edition 2011

Establishing a Hematopoietic Stem Cell Transplantation Unit, a practical guide

7. Facilities and resources mandatory for course completion:

-Lecture Halls.

-Data show.

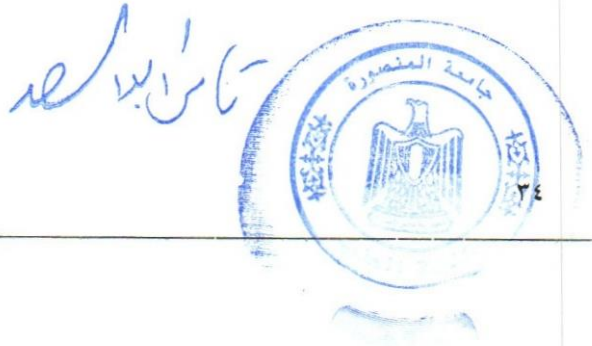
-Equipped Laboratory.

Course Supervisor:
Prof Mohamed Nasr

Course coordinators:
Prof. Sameh Shamaa
Prof. Mohamed Nasr
Prof. Emad Azmy

Head of the Department:
Prof. Aymen Menesy

Date of 1st approval 2020
Date of last approval 2020



٨- لائحة الدبلومة المهنية في زراعه خلايا الدماغ

Professional Diploma Degree of Hematopoietic Stem Cell Transplantation (BMT410)

القسم المانح الدرجة الأمراض الباطنه

المقررات الدراسية وتوزيع الساعات المعتمدة

الفصول الدراسية	المقرر	Course	الكـــود	الساعات المعتمدة
الفصل الدراسي الأول:	أساسيات زراعه خلايا الدم	The basics of the Hemato poietic Stem Cell Transplantation	BMT410B	5
الفصل الدراسي الثاني:	الخلايا الجذعية وعلل مكونات الدم	The Hemato poietic Stem Cells and the basics of transfusion	BMT410S	6.5
الفصل الدراسي الثالث:	الجانب المناعي وتطبيقات زراعه خلايا الدم	The immunological aspects and the applications of the Hemato poietic Stem Cell Transplantation	BMT410A	4.5
الفصل الدراسي الرابع:	مضاعفات زراعه خلايا الدم	The complications of the Hemato poietic Stem Cell Transplantation	BMT410C	4
12	Degree bearing including clinical consultations, seminars, conferences, and case presentations			
إجمالي الساعات المعتمدة		32		

نظام الامتحانات (الدبلومه المهنيه في زراعه نخاع العظام)

1. امتحانات التقييم المستمر: تعقد بعد نهايه كل فصل دراسي

المقرر	الاختبار	الدرجه
1. أساسيات زراعه نخاع العظام	MCQ	20
2. الخلايا الجذعيه وبقيه مكونات الدم	MCQ	20
3. المظاهر الطبيه وتطبيقات زراعه نخاع العظام	MCQ	20
4. مضاعفات زراعه نخاع العظام	MCQ	20

2. الامتحان النهائي الشامل: يعقد بعد الفصل الدراسي الرابع

الاختبار	الدرجة			إجمالي
1) تحريري مدته ثلاث ساعات 2) امتحان شفهي 3) امتحان إكلينيكي	تحريري	شفهي	إكلينيكي	٢٢٠
	100	60	60	

يعتبر الطالب ناجحا اذا حصل على ٦٠٪ من درجه الامتحان التحريري و MCQ و ٦٠٪ من درجات الامتحان الشفهي و الإكلينيكي

<u>**شروط القيد في الدبلومه المهنيه في زراعه نخاع العظام:**</u>

من يحق له التقدم للحصول على الدبلومة المهنية في زراعه نخاع العظام:

للمتقدمين من الداخل:

١) خريجي كليات الطب من مختلف الجامعات الحاصلين على درجة الماجستير أو الدكتوراه في أمراض الدم الإكلينيكية

٢) خريجي كليات الطب من مختلف الجامعات الحاصلين على درجه الماجستير أو الدكتوراه في طب الأورام بشرط ان تكون الرسالة في أمراض الدم الخبيثة.

للمتقدمين من الخارج:

١) خريجي كليات الطب من مختلف الجامعات الحاصلين على درجة الماجستير أو الدكتوراه في أمراض الدم الإكلينيكية أو مايعادلها في نفس التخصص.

٢) خريجي كليات الطب من مختلف الجامعات الحاصلين على درجه الماجستير أو الدكتوراه في طب الأورام أو ما يعادلها بشرط ان تكون رسالة الدكتوراه في أمراض الدم الخبيثة

٣) خريجي كليات الطب من مختلف الجامعات الحاصلين على درجه الماجستير أو الدكتوراه في الأمراض الباطنه أو مايعادلها بشرط ان تكون رسالة الماجستير أو الدكتوراه في أمراض الدم الحميده او الخبيثه