

Master of Medicine at USI

13.09.2023

Master of Medicine – Primary aims

- Train **outstanding physicians**
- Train medical students for the federal medical licensing examination **adequately and rigorously**
- Offer an **innovative, attractive and motivating model** which includes:
 - A lot of **clinical practice**, discussion of clinical cases and practical exercises
 - Working groups, constant and **regular contact with professors**
 - Curriculum based on «**PROFILES**»

Educational principles of the model

- Interact with and see many patients
- Theoretical and practical lessons focused on priorities
- Peer-assisted learning with senior physicians
- Building a portfolio of in depth analysis of actual clinical cases
- Interactive small groups
- Learning by doing



Our unique selling points

Proximity:

Proximity to professors, clinical days student tutor ratio 2:1

Practice:

Practice oriented training in small groups (bed-side teaching, simulated patients and high-tech simulations)

Profiles:

Curriculum fully adapted and inspired to  PROFILES

Promotion:

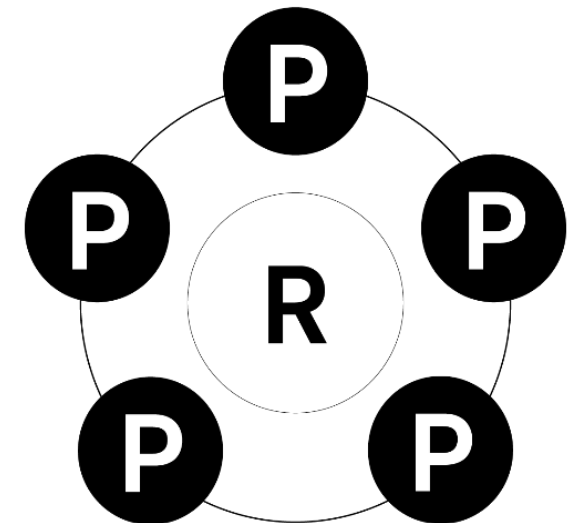
Possibility to start a Dr. med. or MD-PhD

Personal:

Personalized curriculum with various optional courses

Research:

Research integrated in clinical modules and in optional courses



Profiles

Curriculum: General structure

Each of the first 4 semesters consist of modules, transversal topics and 2 special weeks

- **Modules:**
 - 1st sem.: **Circulation, homeostasis, immune disorders**
 - 2nd sem.: **Women and Children, circulating cells and signaling**
 - 3rd sem.: **Emergency and surgical approach, transversal practice**
 - 4th sem.: **Nervous system, personality and cognition**
- **Transversal topics** throughout al 4 semesters:
 - Family medicine, Pathology, Infectious disease, Oncology, Imaging, Pharmacology / toxicology, Public health, Palliative care, Geriatrics and Doctor-patient communication
- **Special weeks:**
 - 1st sem.: 2 weeks of **general introduction**
 - 2nd sem.: 2 weeks of **bench to bedside**
 - 3rd sem.: 2 weeks of **pediatric practice**
 - 4th sem.: 2 weeks of training at **family doctor practice**

“2 special weeks” program

1st semester – General introduction

- Team building with professors
- Introduction to transversal topics
- Ticino health care system
- Invasive maneuvers, minor surgery: theory and practice
- Interprofessionalism

2nd semester – Bench to bedside

- Basic teaching of research activity
- Medical research in Ticino: institutes, research fields and possibilities
- Introduction and discussion on the Master Thesis

3rd semester - Pediatric practice (rotation of 3 groups)

- Students perform, in groups of 2, a full time 2-weeks internship in pediatric practices
- 12-36 collaborating pediatricians will be specially trained to provide dynamic, high-quality teaching

4th semester - Family doctor practice (rotation of 3 groups)

- Students perform, in groups of 2, a full time 2-weeks internship at a family doctor practice (General practitioner)
- 12-36 collaborating family doctors will be specially trained to provide dynamic, high-quality teaching

Curriculum: General structure

Holidays	General Introduction	Clinical semester 1 Circulation, homeostasis and immune disorders	Holidays	Exams	Clinical semester 2 Women and Children, circulating cells and signaling	Easter Holidays	Bench to bedside	Clinical semester 2 Continuing	Exams	
Holidays	Pediatric practice	Clinical semester 3 Emergency and surgical approach	Holidays	Exams	Family doctor	Clinical semester 4 Nervous system, personality and cognition	Easter Holidays	Clinical semester 4 Nervous system, personality and cognition	Exams	
	Transversal practice									
Holidays	Elective term (6 months)				Holidays	Master thesis	Complementary topics	Easter Holidays	Repetition and training for federal exam	Exams

Exams

Starting from the first semester, simulations of the federal exams will be performed regularly.

- The exams focus on the main topics of the previous semester
- Exams will include
 - Multiple choice (MC)
 - Simulated practical examination with actors (OSCE)
- MC exams: after each clinical semester (1. – 4. semester) and at the end of the 6. semester
- OSCE exams: after each clinical year (1. and 2. year) and at the end of the 6. semester

First semester: Circulation, homeostasis and immune disorders

1	2	3	4	5	6	7	8	9	10	11	12	13	14
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**Group A
N=24**

**Group B
N=24**

**Group C
N=24**

General introduction	Circulation	Homeostasis (respiration, hemodynamics, fluids and electrolytes)	Immune disorders (immunology, rheumatology, dermatology)
	Homeostasis (respiration, hemodynamics, fluids and electrolytes)	Immune disorders (immunology, rheumatology, dermatology)	Circulation
	Immune disorders (immunology, rheumatology, dermatology)	Circulation	Homeostasis (respiration, hemodynamics, fluids and electrolytes)

Second semester: Women and children, circulating cells and signaling

1	2	3	4	5	6	7	8	9	10	11	12	13	14
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Children and adolescents	Women (Gynecology and obstetrics)	Bench to bedside	Circulating cells and signaling (Hematology and endocrinology)
Circulating cells and signaling (Hematology and endocrinology)	Children and adolescents		Women (Gynecology and obstetrics)
Women (Gynecology and obstetrics)	Circulating cells and signaling (Hematology and endocrinology)		Children and adolescents

Third semester: Emergency and surgical approach, transversal practice

1	2	3	4	5	6	7	8	9	10	11	12	13	14
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Abdominal organs (liver, kidney, intestine)			Pediatric practice	Critical Care (Anesthesiology intensive care, emergency)			Transversal practice	Skeleton (Orthopedics, traumatology)		
Transversal practice	Skeleton (Orthopedics, traumatology)			Abdominal organs (liver, kidney, intestine)			Pediatric practice	Critical Care (Anesthesiology intensive care, emergency)		
Pediatric practice		Critical Care (Anesthesiology intensive care, emergency)			Transversal practice	Skeleton (Orthopedics, traumatology)			Abdominal organs (liver, kidney, intestine)	

Forth semester: Nervous system, personality and cognition

1	2	3	4	5	6	7	8	9	10	11	12	13	14
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Family doctor	Nervous system (Neurology, neurosurgery)		Personality and cognition (Psychiatry, medical psychology)		Head and neck organs (ORL, ophthalmology)	
Head and neck organs (ORL, ophthalmology)		Family doctor	Nervous system (Neurology, neurosurgery)		Personality and cognition (Psychiatry, medical psychology)	
Personality and cognition (Psychiatry, medical psychology)		Head and neck organs (ORL, ophthalmology)		Family doctor	Nervous system (Neurology, neurosurgery)	

Modules and topics

Vertical
responsibility
(modules)

Transversal
topics

Circulation – Cardiol., angiol.

Homeostasis – Respira., nephrol.

Immune disorders – Immuno,
rheuma, dermato

Children and adolescent – Pediatrics

Women – Gyneco., obstetrics

Circulating cells and signaling –
Endocr., hematol.

Abdominal organs – Digest.sys.,
urolo.

Skeleton – Orthoped., traumatol.

Critical care – Anesthesiol., intensive
care, emergency

Nervous system – Neurol.,
neurosurgery

Head and neck organs – ORL, ophthal.

Personality and cognition –
Psychiatry, psychology

1. Family medicine / patient care / quality & safety
2. Pathology
3. Infective medicine / travel medicine
4. Oncology
5. Imaging
6. Pharmacology / toxicology
7. Public Health / ethics / insurance medicine
8. Geriatrics
9. Palliative care
10. Doctor-Patient Communication

Structure of the week

Theoretical lessons

- 2h theory on transversal topics, all
- 2h theory multidisciplinary on module themes, all
- 4h theory on the module themes, 3 groups

Practice oriented teaching activity (groups of 8 students)

- 4h of clinical case discussions or practical exercises on the module themes
→ cases covering major diseases and prepared according to PROFILES: Situation as starting point
- 1 half-day individual preparation of own case portfolio

Clinical activity

- 1.5 days of clinical activity at the hospital, 2 students with a Senior physician

Assessment and feedback

- 1h assessment and feedback at the end of each week, 2 groups

Optional courses

- 2 optional courses of choice per semester, each course consists in 12h of lectures and practice

2 half-days individual study

Typical week of 1st year MMED

	Monday	Tuesday	Wednesday	Thursday	Friday
08:30 – 09:15 09:30 – 10:15	Theoretical lessons Transversal themes (all)	Clinical activity at hospital (2 students with a Senior)	Clinical activity at hospital (2 students with a Senior)	Theoretical lessons Module theme (3 groups)	Theoretical lessons Module theme (3 groups)
10:30 – 11:15 11:30 – 12:15	Theoretical lessons Multidisciplinary (all)	Clinical activity at hospital (2 students with a Senior)	Clinical activity at hospital (2 students with a Senior)	Discussion of clinical cases or practical exercises Module theme (in small groups)	Discussion of clinical cases or practical exercises Module theme (in small groups)
12:15 – 13:30					
13:30 – 14:15 14:30 – 15:15	Optional subjects	Clinical activity at hospital (2 students with a Senior)	Case preparation (individually at hospital)	Individual study	Assessment and feedback
15:30 – 16:15 16:30 – 17:15	Optional subjects	Clinical activity at hospital (2 students with a Senior)			Individual study

Typical week of 2nd year MMED

	Monday	Tuesday	Wednesday	Thursday	Friday
08:30 – 09:15 09:30 – 10:15	Theoretical lessons Transversal themes (all)	Theoretical lessons Module theme (3 groups)	Theoretical lessons Module theme (3 groups)	Clinical activity at hospital (2 students with a Senior)	Clinical activity at hospital (2 students with a Senior)
10:30 – 11:15 11:30 – 12:15	Theoretical lessons Multidisciplinary (all)	Discussion of clinical cases or practical exercises Module theme (in small groups)	Discussion of clinical cases or practical exercises Module theme (in small groups)	Clinical activity at hospital (2 students with a Senior)	Clinical activity at hospital (2 students with a Senior)
12:15 – 13:30					
13:30 – 14:15 14:30 – 15:15	Optional subjects	Individual study	Assessment and feedback	Clinical activity at hospital (2 students with a Senior)	Case preparation (individually at hospital)
15:30 – 16:15 16:30 – 17:15	Optional subjects		Individual study	Clinical activity at hospital (2 students with a Senior)	



5. Semester – Elective term (E.T.)

6 months mandatory –
Between August and February

August	September	October	November	December	January	February
1 E.T.	1 E.T.	1 E.T.	1 E.T.	1 E.T.	1 E.T.	1 E.T.
2 E.T.	2 E.T.	2 E.T.	2 E.T.	2 E.T.	2 E.T.	2 E.T.
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28 E.T.	28 E.T.	28 E.T.	28 E.T.	28 E.T.	28 E.T.	28 E.T.
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30 E.T.	30 E.T.	30 E.T.	30 E.T.	30 E.T.	30 E.T.	
31 E.T.		31 E.T.		31 E.T.	31 E.T.	

6. Semester

Mar			Apr		08:30 - 12:15	13:30 - 17:15	May		08:30 - 12:15	13:30 - 17:15
1	Fr	Master thesis	1	Mo	Easter		1	Mi	Labor day	
2	Sa		2	Di			2	Do		Rep Infectious disease
3	So	3	3	Mi			3	Fr		Rep Oncology
4	Mo	Master thesis	4	Do			4	Sa		
5	Di	Master thesis	5	Fr			5	So	11	
6	Mi	Master thesis	6	Sa	Easter		6	Mo	Forensic	Rep Skeleton
7	Do	Master thesis	7	So	Easter 7		7	Di		Rep Psychiatry
8	Fr	Master thesis	8	Mo	OSCE prep	Rep Pathology	8	Mi		Health mgmnt & econ.
9	Sa		9	Di		Rep Circulation	9	Do	Ascension day	
10	So	4	10	Mi		Rep Immune disorders	10	Fr		
11	Mo	Master thesis	11	Do		Rep Homeostasis	11	Sa		
12	Di	Master thesis	12	Fr		Rep Imaging	12	So	12	
13	Mi	Master thesis	13	Sa			13	Mo	Rep Palliative care	Health mgmnt & econ.
14	Do	Master thesis	14	So	8		14	Di		Health mgmnt & econ.
15	Fr	Master thesis	15	Mo	Forensic	Rep Critical care	15	Mi		Rep Nervous system
16	Sa		16	Di		DAK	16	Do		Gender medicine
17	So	5	17	Mi		DAK	17	Fr		Sports medicine
18	Mo	Master thesis	18	Do	DAK	DAK	18	Sa	Pentecoste	
19	Di	San Giuseppe	19	Fr	DAK	DAK	19	So	Pentecoste 13	
20	Mi	Master thesis	20	Sa			20	Mo	Pentecoste	
21	Do	Master thesis	21	So	9		21	Di		TarMed & DRG
22	Fr	Master thesis	22	Mo	Forensic	Rep Pharmacology	22	Mi		Nutrition
23	Sa		23	Di		Rep Endocrinology	23	Do		Rep ORL
24	So	6	24	Mi		Rep Hematology	24	Fr		Rep Ophthal
25	Mo	Master thesis	25	Do		DP Communication	25	Sa		
26	Di	Master thesis	26	Fr		Rep Abdominal organs	26	So	14	
27	Mi	Master thesis	27	Sa			27	Mo		Rep Family medicine
28	Do	Master thesis	28	So	10		28	Di		Rep Public Health
29	Fr	Master thesis	29	Mo	Forensic	Rep Women	29	Mi		Rep Geriatrics
30	Sa	Ester	30	Di		Rep Pediatrics	30	Do	Corpus domini	
31	So	Ester					31	Fr		

Thank you!

