



# UniSR

Università Vita-Salute  
San Raffaele

## II level

### Master in Intestinal Ultrasound in Inflammatory Bowel Disease

#### a.y. 2024/25

#### SUMMARY OF LEARNING ACTIVITIES

Activity	CFU	Module	Hrs	ECTS
<b>Classroom activity</b>	20	Frontal teaching activities	160	32
		Individual study time	640	
<b>Learning by doing</b>	8	Training Hands-Off	200	8
	16	Training Hands-On	400	16
	4	Thesis	100	4
<b>TOTAL</b>			<b>1500</b>	<b>60</b>

(1 ECTS= 8 hrs frontal learning)

#### FRONTAL TEACHING ACTIVITIES

(1 CFU = 8 hrs of frontal teaching)

Courses	CFU	Frontal hours	SSD
Inflammatory bowel disease (IBD): epidemiology, pathogenesis, clinical presentation, diagnostic investigation, management	<b>1</b>	<b>8</b>	MED/12
Imaging techniques for the assessment of activity and complications in IBD: computed tomography, magnetic resonance imaging, role of fecal calprotectin	<b>0,5</b>	<b>4</b>	MED/12
Biomarkers in IBD: role of C-reactive protein, role of fecal calprotectin	<b>0,5</b>	<b>4</b>	MED/12
Treat to target and disease monitoring	<b>0,5</b>	<b>4</b>	MED/12
What is bowel ultrasound (US)? Equipment, basic technique	<b>0,5</b>	<b>4</b>	MED/12
How to perform bowel US. Anatomy and sonographic findings. Bowel wall, small and large bowel, peri-intestinal features. Reporting on examination [...]	<b>1</b>	<b>8</b>	MED/12
Special techniques: small intestine contrast ultrasound (SICUS), transperineal ultrasound, contrast-enhanced ultrasound (CEUS), elastography	<b>1</b>	<b>8</b>	MED/12
Bowel US for the diagnosis of Crohn's disease (CD)	<b>1</b>	<b>8</b>	MED/12
Bowel US for assessment of CD activity and extent	<b>1</b>	<b>8</b>	MED/12



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Bowel US for detection of extraintestinal features and complications in CD: strictures, fistulae, abscesses, lymph nodes, mesenteric fat hypertrophy, abdominal free fluid	<b>0,5</b>	<b>4</b>	MED/12
Bowel US for assessment of postoperative CD recurrence	<b>0,5</b>	<b>4</b>	MED/12
Bowel US for assessment of CD bowel damage	<b>0,5</b>	<b>4</b>	MED/12
Bowel US for assessment of response to therapy in CD	<b>1</b>	<b>8</b>	MED/12
Bowel US for assessment of prognostication in CD	<b>0,5</b>	<b>4</b>	MED/12
Sonographic scores in CD	<b>0,5</b>	<b>4</b>	MED/12
Bowel US for the diagnosis of ulcerative colitis (UC)	<b>0,5</b>	<b>4</b>	MED/12
Bowel US for assessment of UC disease activity and extent	<b>0,5</b>	<b>4</b>	MED/12
Bowel US for detection of extraintestinal features and complications in UC: strictures, lymph nodes, mesenteric fat hypertrophy, abdominal free fluid	<b>0,5</b>	<b>4</b>	MED/12
Bowel US for assessment of response to therapy in UC	<b>1</b>	<b>8</b>	MED/12
Bowel US for assessment of prognostication in UC	<b>0,5</b>	<b>4</b>	MED/12
Sonographic scores in UC	<b>1</b>	<b>8</b>	MED/12
How to position bowel US in Inflammatory bowel disease (IBD) clinical practice?	<b>1</b>	<b>8</b>	MED/12
Where to perform bowel US? Point-of-care ultrasound (PoCUS)	<b>1</b>	<b>8</b>	MED/12
Bowel US: application in functional gastro-intestinal disorders	<b>0,5</b>	<b>4</b>	MED/12
Emerging and future roles of Bowel US: evaluation of stricturing diseases; evaluation of transmural healing in IBD	<b>0,5</b>	<b>4</b>	MED/12
Bowel US for assessment of perianal Crohn's disease	<b>0,5</b>	<b>4</b>	MED/12
Advantage of Bowel US	<b>1,5</b>	<b>12</b>	MED/12
Limitation of bowel US: how to overcome these limits?	<b>1</b>	<b>8</b>	MED/12
Challenging clinical cases	<b>1</b>	<b>8</b>	MED/12
<b>TOTAL</b>	<b>20</b>	<b>160</b>	



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## **OTHER FORMS OF TRAINING**

<b>Professional training</b>	<b>CFU</b>	<b>Ore</b>	<b>SSD</b>
Observership (hands-off)	8	200	TIR
Observership (hands-on)	16	400	TIR
<b>TOTAL</b>	<b>24</b>	<b>600</b>	

<b>Final Thesis</b>	<b>CFU/EC TS</b>	<b>Hrs</b>	<b>SSD</b>
Drafting of a final thesis	4	100	PROFIN
<b>TOTAL</b>	<b>4</b>	<b>100</b>	