



# UniSR

Università Vita-Salute  
San Raffaele

## II LEVEL MASTER IN INTESTINAL ULTRASOUND IN INFLAMMATORY BOWEL DISEASE

### SUMMARY OF LEARNING ACTIVITIES

#### FRONTAL TEACHING ACTIVITIES, Q&A – 32 ECTS

	COURSES	ECTS	H	SSD
1	Inflammatory bowel disease (IBD): epidemiology, pathogenesis, clinical presentation, diagnostic investigation, management	1	8	MED/12
2	Imaging techniques for the assessment of activity and complications in IBD: computed tomography, magnetic resonance imaging, role of fecal calprotectin	0,5	4	MED/12
3	Biomarkers in IBD: role of C-reactive protein, role of fecal calprotectin	0,5	4	MED/12
4	Treat to target and disease monitoring	0,5	4	MED/12
5	What is bowel ultrasound (US)? Equipment, basic technique	0,5	4	MED/12
6	How to perform bowel US. Anatomy and sonographic findings. Bowel wall, small and large bowel, peri-intestinal features. Reporting on examination.	1	8	MED/12
7	Special techniques: small intestine contrast ultrasound (SICUS), transperineal ultrasound, contrast-enhanced ultrasound (CEUS), elastography	1	8	MED/12
8	Bowel US for the diagnosis of Crohn's disease (CD)	1	8	MED/12
9	Bowel US for assessment of CD activity and extent	1	8	MED/12
10	Bowel US for detection of extraintestinal features and complications in CD: strictures, fistulae, abscesses, lymph nodes, mesenteric fat hypertrophy, abdominal free fluid	0,5	4	MED/12
11	Bowel US for assessment of postoperative CD recurrence	0,5	4	MED/12
12	Bowel US for assessment of CD bowel damage	0,5	4	MED/12
13	Bowel US for assessment of response to therapy in CD	0,5	4	MED/12
14	Bowel US for assessment of prognostication in CD	0,5	4	MED/12
15	Sonographic scores in CD	0,5	4	MED/12
16	Bowel US for the diagnosis of ulcerative colitis (UC)	1	8	MED/12
17	Bowel US for assessment of UC disease activity and extent	0,5	4	MED/12
18	Bowel US for detection of extraintestinal features and complications in UC: strictures, lymph nodes, mesenteric fat hypertrophy, abdominal free fluid	0,5	4	MED/12
19	Bowel US for assessment of response to therapy in UC	0,5	4	MED/12
20	Bowel US for assessment of prognostication in UC	0,5	4	MED/12
21	Sonographic scores in UC	0,5	4	MED/12



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22	How to position bowel US in Inflammatory bowel disease (IBD) clinical practice?	1	8	MED/12
23	Where to perform Bowel US? Point-of-care ultrasound (PoCUS)	0,5	4	MED/12
24	Bowel US: application in functional gastro-intestinal disorders	1	8	MED/12
25	Emerging and future roles of Bowel US: evaluation of stricturing disease; evaluation of transmural healing in IBD	1	8	MED/12
26	Bowel US for assessment of Perianal Crohn's disease	0,5	4	MED/12
27	Advantages of Bowel US	0,5	4	MED/12
28	Limitation of bowel US: how to overcome these limits?	0,5	4	MED/12
29	Challenging clinical cases	1,5	12	MED/12

## PROFESSIONAL TRAINING – 24 ECTS

COURSES	ECTS	H	SSD
Observership (hands-off)	8	200	TIR
Observership (hands-on)	16	400	TIR

## FINAL THESIS – 4 ECTS

COURSES	ECTS	H	SSD
Clinical research thesis	4	100	PRO-FIN