

Day 1 – Wednesday, 9th September 2026: Foundations of acid-base

11:30-12:30 Registration, lunch (lobby, building A)

12:30-12:50 Introduction: Course objectives, logistics, house rules. Introducing the faculty and the candidates F. Duška, M. Krbec, L. Giosa

12:50-13:20 The Autumn Ghost: The origins of modern acid base analysis during polio pandemic D. Lodahl

13:20-13:50 Buffers and base excess L. Giosa

13:50-14:20 Regulation of breathing, respiratory disorders and Boston rules F. Zadek

14:20-14:40 Few cases to practice Boston rules F. Zadek

Coffee break

15:10-15:40 Renal regulation of acid base and the meaning of urinary electrolytes P. Caironi

15:40-16:10 Modern acid- base analyser – what is inside, how it works and why is it important S. Rees

16:10-16:40 “Der Kassenzettel” Blood gas strip explained in detail S. Brusatori

Coffee break

17:10-17:40 Classical approach to acid base – its extensions and limitations M. Krbec

17:40-18:10 Unmeasured anions: practical differential diagnosis N. van Regenmortel

18:10-18:30 Few cases to dig the GOLDMARK N. van Regenmortel

18:30-18:50 Whiteboard Summary: What did I learn today + Q&A F. Duška + all

Networking grill (garden, building B)

Day 2 – Thursday, 10th September 2026: Advanced acid-base

09:00-09:45 Stewart acid base approach – step by step T. Langer

09:45-10:15 Clinical applications and simplifications of Stewart approach – from “Fencel to Story” N. van Regenmortel

10:15-10:35 Plasma SID during extreme pH values L. Giosa

10:35-11:00 Back-to-back comparison of acid base models M. Krbec

11:00-11:30 Practical 5-step approach to deciphering mixed acid-base disorders F. Duška

11:30-11:45 Example cases F. Duška

Lunch (cafeteria, ground floor)

13:00-17:00 Practical workshops on real clinical cases

Lobby: Rest station

Room 1 S. Brusatori

Room 2 F. Zadek / M. Krbec

Room 3 L. Giosa / S. Brusatori

Lobby: Rest station

Room 4: Ask me what you did not get!
(no case, just expert and a whiteboard) T. Langer, P. Caironi

Room 5: Stewart computer modelling station S. Rees / P. Waldauf / M. Heldeweg

Room 6 N. van Regenmortel / D. Lodahl

Tea break (cafeteria, ground floor)

17:30-18:00 Criticism of Stewart approach – justified and unjustified M. Heldeweg

18:00-18:20 Rational use of alkalinizing treatments P. Caironi

18:20-18:40 Rational use of acidifying treatments T. Langer

Day 3 – Friday, 11th September 2026: Water and osmoles

09:00-09:30	Water and osmoles – compartments and microcirculation	L. Giosa
09:30-10:00	Physiology-based approach to dysnatremias	N. van Regenmortel
10:00-10:20	Fluids: volume and acid base effect	T. Langer
10:20-10:40	Major fluid trials and why they might not be helpful	M. Heldeweg
10:40-11:00	How to use fluids: Summarising the evidence and practical insights	M. Malbrain
11:00-11:30	Mechanisms and practical use of diuretics	P. Caironi
	Lunch (cafeteria, ground floor)	
13:00-17:00	Practical workshops on real clinical cases	
	Lobby: Rest station	–
	Room 1	N. van Regenmortel / F. Duška
	Room 2	F. Zadek / M. Krbec
	Room 3	L. Giosa / M. Heldeweg
	Lobby: Rest station	
	Room 4: Ask me what you did not get! (no case, just experts and a whiteboard)	M. Malbrain
	Room 4	P. Waldauf / S. Rees
	Room 5	S. Brusatori / T. Langer
17:00-18:00	LUCIANO GATTINONI MEMORIAL PH(D) SLAM PechaKucha presentations of new data and ideas M. Vančura, S. Slot, A. Bolnberger, K. Metznerbacher, J. Halamik moderated by L. Giosa and M. Heldeweg	
19:30-21:30	Social Equilibrium Evening (Boat)	

Day 4 – Saturday, 12th September 2026: Have fun with geeks...

09:00-09:20	Deep insight - Lactate	P. Waldauf
09:30-10:00	Deep insight - DKA	F. Duška
10:00-10:20	Deep insight – Acid base effects of RRT	F. Zadek
	Coffee break	
10:50-11:20	Challenge the expert with your Friday night case (solving cases sent by participants) moderated by F. Duška, M. Krbec and L. Giosa	
11:20-12:00	Kahoot Case-solving contest	S. Brusatori
	Wrap up, course evaluation, group photo	