

PROGRAMME

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

13:00-13:30 Registration (lobby, building A)

13:30-13:50 Introduction: Course objectives, logistics, house rules. Introducing the faculty and the candidates F. Duška, M. Krbec, L. Giosa

13:50-14:10 The Autumn Ghost: The origins of modern acid–base analysis during polio pandemic T. Langer

14:10-14:40 Buffers and base excess L. Giosa

14:40-15:10 Regulation of breathing, respiratory disorders and Boston rules F. Zadek

15:10-15:30 Few cases to practice Boston rules F. Zadek

Coffee break

16:00-16:30 Renal regulation of acid–base and the meaning of urinary electrolytes P. Caironi

16:30-17:00 Classical approach to acid–base – its extensions and limitations M. Krbec

17:00-17:20 Modern acid–base analyser – what is inside, how it works and why is it important S. Rees

17:20-17:40 “Der Kassenzettel”: Blood gas strip explained in detail S. Brusatori

17:40-18:10 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 (2x)

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Room 220: S. Brusatori

Room 221: F. Zadek

Room 331: L. Giosa

Room 422: M. Krbec

Room 423: Ask me what you did not get!
(no case, just experts and a whiteboard) F. Duška, P. Caironi

Room 523: Stewart computer modelling station I S. Rees / P. Waldauf / M. Heldeweg

17:00-17:15 Time reserve / minibreak
(snacks available at cafeteria, ground floor)

17:15-17:35 Criticism of Stewart approach – justified and unjustified M. Heldeweg

17:35-17:50 Rational use of alkalinizing treatments P. Caironi

17:50-18:10 Rational use of acidifying treatments T. Langer

18:10-18:30 Wrap-up of the day, final Q&A L. Giosa

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

09:00-09:30	Water and osmoles – compartments and microcirculation	L. Giosa
09:30-09:50	Physiology-based approach to hyponatremias	F. Duška
09:50-10:10	Physiology-based approach to hypernatremias	N. van Regenmortel
10:10-10:40	Physiology-based use of fluid: volume and acid–base effect	T. Langer
10:40-11:10	Mechanisms and practical use of diuretics	P. Caironi
11:10-11:30	Review my case (expert solve cases sent by participants)	N. van Regenmortel, F. Duška
	Lunch (cafeteria, ground floor)	
12:30-16:30	Practical workshops on real clinical cases	
	Lobby: Rest station (2x)	–
	Room 220: Hypernatremias	N. van Regenmortel
	Room 221: Hyponatremias	F. Zadek
	Room 331: Ask me what you did not get! (no case, just experts and a whiteboard)	T. Langer
	Room 422:	L. Giosa / M. Heldeweg
	Room 423:	S. Brusatori / M. Krbec
	Room 523: Stewart computer modelling station II	P. Waldauf / S. Rees
16:30-16:45	Time reserve / minibreak (snacks available at cafeteria, ground floor)	
	Luciano Gattinoni Memorial Ph(D) Slam and Thinking Session	
16:45-18:30	PechaKucha presentations of new research ideas and pilot data by M. Vančura, S. Slot, A. Bolnberger, K. Metzenbauer, and J. Halamík	L. Giosa, M. Heldeweg (moderators)
	Discussion of dreams, ideas, protocols and possible collaborations.	
19:30-21:30	Social equilibrium evening (boat), Group photo	

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

09:00-09:30	Deep insight: Lactate	P. Waldauf
09:30-10:00	Deep insight: DKA	F. Duška
10:00-10:30	Deep insight: Acid–base effects of RRT	F. Zadek
	Coffee break	
11:00-11:20	Final wrap-up, Q&A, resources to further study acid–base, solving ad hoc cases from participants	F. Duška, M. Krbec, L. Giosa
11:20-12:00	Kahoot case-solving contest	S. Brusatori
12:00	The end: Winner announcement. Course evaluation, and Goodbye	

ROTATION THROUGH WORKSHOP STATIONS

Day 2

12:50 – 13:00 Room preparation and instructions

	13:00 to 13:25	13:30 to 13:55	14:00 to 14:25	14:30 to 14:55	15:00 to 15:25	15:30 to 15:55	16:00 to 16:25	16:30 to 16:55
Red	423	523	Lobby	220	221	331	Lobby	422
Blue	422	423	523	Lobby	220	221	331	Lobby
Yellow	Lobby	422	423	523	Lobby	220	221	331
Pink	331	Lobby	422	423	523	Lobby	220	221
Green	221	331	Lobby	422	423	523	Lobby	220
Orange	220	221	331	Lobby	422	423	523	Lobby
Violet	Lobby	220	221	331	Lobby	422	423	523
empty room	523	–	220	221	331	–	422	423

Day 3

12:20 – 12:30 Room preparation and instructions

	12:30 to 12:55	13:00 to 13:25	13:30 to 13:55	14:00 to 14:25	14:30 to 14:55	15:00 to 15:25	15:30 to 15:55	16:00 to 16:25
Red	423	523	Lobby	220	221	331	Lobby	422
Blue	422	423	523	Lobby	220	221	331	Lobby
Yellow	Lobby	422	423	523	Lobby	220	221	331
Pink	331	Lobby	422	423	523	Lobby	220	221
Green	221	331	Lobby	422	423	523	Lobby	220
Orange	220	221	331	Lobby	422	423	523	Lobby
Violet	Lobby	220	221	331	Lobby	422	423	523
empty room	523	–	220	221	331	–	422	423