

Programme

Wednesday 13th September 2023 – DAY 1: The basics – Physiology of homeostasis

11:30-12:30	Registration, Lunch (lobby)	
12:30-12:45	Introduction: Course objectives, logistics, house rules. Introducing the faculty and the candidates	F. Duška + all
12:45-13:25	Brief history of homeostasis, acids, bases and blood gases - introducing basic mathematics and terminology based on historical concepts	D. Lodahl
13:25-13:40	Comment: My recollections of acid base history	L. Gattinoni
13:40-14:00	Physiology of extracellular and intracellular buffers	L. Giosa
	Coffee break	
14:20-15:10	Renal regulation of acid base: Why and How to Assess Urinary Electrolytes	L. Gattinoni
15:10-15:50	Carbon dioxide regulation and storage	L. Giosa
	Coffee break	
16:10-16:50	Physiology of osmolarity regulation, body fluids and compartments	F. Zadek
16:50-17:20	Microcirculation: how it really works	D. Astapenko
	Coffee break	
17:40-18:10	How the blood gas analyzer works: pre-analytical errors, pitfalls, meaning of measured/calculated variables	T. Langer
18:10-18:30	Blood gas analyser – useful and useless values	S. Brusatori
18:30-18:45	Whiteboard Summary: What did I learn today + Q&A	F. Duška, T. Itenov
19:00	Networking Event (Grand Café Orient, Ovocný trh 19)	

Thursday 14th September 2023 – DAY 2: Clinical acid base

09:00-09:30	Respiratory acid-base derangements	F. Zadek
09:30-10:00	Metabolic disorders: bicarbonate-centred approach	D. Lodahl
10:00-10:40	Boston Rules	T. Langer
	Coffee break	
11:00-11:30	Stewart electroneutrality-based approach	L. Gattinoni
11:30-12:00	Base excess partitioning as the way how to use Stewart approach at bedside?	L. Giosa
	Lunch (café Didaktikon, ground floor)	
13:00-13:40	Unifying Acid Base Approaches: Just different points of view?	M. Krbec
13:40-14:10	Role of sodium bicarbonate in the management of metabolic acidosis	P. Caironi
14:10-14:30	Whiteboard Summary: What did I learn today + Q&A	F. Duška, T. Itenov
	Coffee break	
15:00-18:30	Practical workshops	
	Lobby: Rest station	–
	Table I: Acid Base Cases 1, 2	S. Brusatori
	Table II: Acid Base Cases 3, 4, 5	D. Lodahl
	Table III: Acid Base Case 6	T. Itenov
	Table IV: Ask me what you did not get! (no case, just an expert and a whiteboard)	L. Gattinoni, P. Elbers
	Table V: Acid Base Cases 7, 8, 9	F. Zadek

Table VI: Acid Base Cases 10, 11, 12

M. Krbec

Friday 15th September 2023 – DAY 3: Advanced Acid-Base + Water and osmoles

09:00-09:10	Warm up case (extreme body temperature)	S. Brusatori
09:10-09:40	Temperature correction or rather not? And can hibernating mammals give us the answer?	P. Elbers
09:40-10:20	Errors of simplified acid base models during extreme pH values	L. Giosa
10:20-10:50	Cerebrospinal fluid, blood-brain barrier and implications on acid-base equilibria	F. Zadek
	Coffee break	
11:10-11:40	Influence of resuscitative and maintenance fluids on acid-base – the final word	L. Gattinoni
11:40-12:10	Hyponatraemia – practical approach	F. Duška
	Lunch (café Didaktikon, ground floor)	
13:10-13:40	Hypernatraemia – practical approach	T. Itenov
13:40-14:10	Solution of morning case + what did I learn today?	S. Brusatori, F. Duška
	Coffee break	
14:30-18:00	Practical workshops	
	Lobby: Rest station	–
	Table I: Acid Base Case 13	T. Itenov
	Table II: Acid Base Cases 14, 15, 16	F. Zadek
	Table III: Acid Base Case 17	S. Brusatori
	Table IV: Ask me what you did not get! (no case, just an expert and a whiteboard)	M. Malbrain, P. Caironi
	Table V: Acid Base Cases 18, 19, 20	T. Langer
	Table VI: Acid Base Cases 21, 22, 23	F. Duška
19:00-21:00	Boat trip (riverbank near Čechův most)	

Saturday 16th September 2023 – DAY 4: Lets focus on real life setting...

09:00-09:45	My practical summary on how to use fluids	M. Malbrain
09:45-10:25	How do I use of diuretics in my ICU?	P. Caironi
	Coffee break	
10:45-11:15	Elevated lactate: How I understand and interpret it	F. Zadek
11:15-12:00	The most interesting case of my career (4 faculty members, one case each)	M. Malbrain, P. Elbers, T. Langer, F. Duška
12:00	Final Kahoot	T. Itenov
12:30	Wrap up, course evaluation, group photo	

Candidates Rotation through Workshop Stations

Day 2

Group	15:00 to 15:25	15:30 to 15:55	16:00 to 16:25	16:30 to 16:55	17:00 to 17:25	17:30 to 17:55	18:00 to 18:25
Red	Lobby	Table I	Table II	Table III	Table IV	Table V	Table VI
Blue	Table VI	Lobby	Table I	Table II	Table III	Table IV	Table V
Yellow	Table V	Table VI	Lobby	Table I	Table II	Table III	Table IV
Purple	Table IV	Table V	Table VI	Lobby	Table I	Table II	Table III
Dark green	Table III	Table IV	Table V	Table VI	Lobby	Table I	Table II
Orange	Table II	Table III	Table IV	Table V	Table VI	Lobby	Table I
Neon green	Table I	Table II	Table III	Table IV	Table V	Table VI	Lobby

Day 3

Group	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	17:00 to 17:25	17:30 to 17:55
Red	Table V	Table VI	Lobby	Table I	Table II	Table III	Table IV
Blue	Table IV	Table V	Table VI	Lobby	Table I	Table II	Table III
Yellow	Table III	Table IV	Table V	Table VI	Lobby	Table I	Table II
Purple	Table II	Table III	Table IV	Table V	Table VI	Lobby	Table I
Dark green	Table I	Table II	Table III	Table IV	Table V	Table VI	Lobby
Orange	Lobby	Table I	Table II	Table III	Table IV	Table V	Table VI
Neon green	Table VI	Lobby	Table I	Table II	Table III	Table IV	Table V