UCL APPLIED RENAL PHYSIOLOGY 2014

A modular course for clinicians and scientists

20-23 May 2014

Sir William Wells Atrium, Royal Free Hospital, London NW3

DAY ONE

Primer in renal physiology

Renal microcirculation

Glomerular function

Proximal tubular function

Assessing renal function

Erythropoietin

Calcium homeostasis

Applied physiology: hypovolaemia, hypertension, and renal injury

Questions for MRCNeph

This one-day module features a comprehensive overview of renal physiology for clinicians, particularly nephrologists.

It will also provide a thorough introduction for researchers entering the renal field.

DAY TWO

Part 1 Fluids, electrolytes and acid-base

Acid-base disorders

Disorders of sodium and water metabolism

Specialised workshops for nephrologists, acute physicians and intensivists

Debate: Stewart versus classical acid-base theory

DAY THREE

Part 2 Fluids, electrolytes and acid-base

Disorders of potassium, calcium, magnesium and phosphate

Diuretics

Fluid therapy

Specialised case workshops for nephrologists, acute physicians, and intensivists

DAY FOUR

Frontiers in renal physiology

This one-day conference will present current concepts and research developments in renal physiology.

The faculty comprises internationally renowned experts in the field.

A highlight of this day will be the inaugural Oliver Wrong Lecture given by Professor Giuseppe Remuzzi.

Plus presentation of The Oliver Wrong Prize for Outstanding Contribution to Renal Physiology by a Junior Researcher.

This two-day module provides a comprehensive overview of fluids, electrolytes and acid-base for clinicians and will cover background physiology and clinical scenarios. Each day will feature small group interactive workshops.

These two days will particularly benefit those practising in nephrology, critical care or any acute medical specialities.

CPD credit from the Royal College of Physicians of London to be confirmed

COURSE DIRECTORS: Robert Unwin, Chris Laing, Ben Walsh

Please register at UCL Online Store

http://www.onlinestore.ucl.ac.uk

For further information, please contact the Course Administrator

Pamela Fong Whitehead, UCL Centre for Nephrology, Nephrology, Floor 1, UCL Medical School, Rowland Hill Street, London NW2 2PF pf.whitehead@ucl.ac.uk / +44 (0)20 7830 2930







Venue and travel

The Sir William Wells Atrium is a modern conference hall in the Royal Free Hospital, located in Hampstead in northwest London.

Underground: The Northern Line on the London Underground (Belsize Park station)

Rail: The London Overground (Hampstead Heath station)

Road: Delegates are advised not to drive their own cars to the Royal Free. Parking is by residential permit or pay & display only

Bus: Numbers 24, 46, 168, 268, C11

REGISTRATION

The registration fee includes lunches and coffee/tea break refreshments

Delegates may register to attend any number or combination of modules

one day	£150.00
two days	£250.00
three days	£350.00
four days	£400.00

Payment

Payment by debit or credit card

Please register at UCL Online Store

http://www.onlinestore.ucl.ac.uk

Confirmation

Confirmation of registration and course information will be sent to delegates in April

Cancellation

Please see Terms & Conditions, UCL Online Store

For further information, please contact the Course Administrator

Pamela Fong Whitehead

UCL Centre for Nephrology, Nephrology, Floor 1, UCL Medical School, Rowland Hill Street, London NW2 2PF pf.whitehead@ucl.ac.uk / +44 (0)20 7830 2930

Registration closing date 25 April 2014

ACCOMMODATION

Rooms have been reserved at preferential rates at two hotels in Hampstead, within walking distance. Rates include VAT and service charge.

	Premier Inn Hampstead 215 Haverstock Hill, London NW3 4RB Tel 020 7443 7500 Email: londonhampstead.PTI@whitbread.com website: http://www.premierinn.com/en/hotel/LONHMP/london-hampstead	Quality Hotel Hampstead 5 Frognal, London NW3 3AL Tel 020 7794 0101 Email: info@qualityhampstead.com website: www.qualityhampstead.com 20 minutes walking distance
	5 minutes walking distance	000 00
single	for Royal Free rate, please contact Marilyn Ramtohul	£99.00
double		£109.00
twin		£109.00
breakfast	£8.95 per person	choice of full English breakfast or Continental breakfast
parking	£14.00 per day	no charge
WiFi	first 30 minutes free	no charge
cancellation policy	before 1300hr day of arrival	72 hours prior to day of arrival

To obtain the Royal Free rate, please quote: Royal Free Hospital / Renal Physiology 2014 / Pamela Whitehead

You may wish to check the Premier Inn's online rates and compare to the Royal Free rate.

Please make your reservation direct with the hotel of your choice Please book as soon as possible as rooms are subject to availability

Cancellation

Cancellations must be made direct to the hotel. Please check terms and conditions with each hotel.

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- Offering B&Bs, self-contained flats, short-term rates
- In all areas of London close to public transport

RATES FOR 2014
Bed and Continental Breakfast

<u>SINGLE</u>		DOUBLE/TWIN	
nights	per night	nights	per night
1–5	£58	1–5	£85
6–7	£53	6–14	£80
8–10	£47		
11–14	£43		
15–19	£40		

Please contact Doctor in the House direct for information and booking

Venue: Tutorial Room 11, UCL Medical School, ground floor Tuesday 20 May PRIMER IN RENAL PHYSIOLOGY

0845-0930	REGISTRATION	
0930-1000	A nephron overview	Matt Bailey
1000-1030	The renal microcirculation	Chris Lote
1030-1100	Glomerular function	Andy Salmon
1100-1130	coffee break	·
1130-1200	Proximal tubular function	Andrew Hall
1200-1230	Distal tubular function	Robert Unwin
1230-1250	Assessing glomerular function	Andy Salmon
1250-1310	Assessing tubular function	Ben Walsh
1310-1400	lunch break	
1400-1430	Erythropoietin	lain Macdougall
1430-1500	The kidney and calcium	John Cunningham
1500-1630	Renal physiology for MRCNeph	Shabbir Moochhala
1630-1700	tea break	
1700-1745	APPLIED RENAL PHYSIOLOGY LECTURE SERIES:	
	THE KIDNEY IN HEALTH AND DISEASE	
	The kidney in salt handling, blood volume and blood pressure	Peter Aronson

<u>Venue: Sir William Wells Atrium, Royal Free Hospital, ground floor</u> <u>Wednesday 21 May PART 1: FLUIDS, ELECTROLYTES AND ACID-BASE</u>

0845-0930	REGISTRATION		
0930-1000	Acid-base physiology	Steve Walter	
1000-1040	Metabolic acidosis and alkalosis	Walter Boron	
1040-1100	Respiratory acidosis and alkalosis	tbc	
1100-1130	coffee break		
1130-1300	Acid-base workshop 1	Chris Laing	
	Acid-base workshop 2	Ben Walsh	
1300-1400	Buffet lunch		
1400-1445	Hyponatraemia	Ewout Hoorn	
1445-1515	5 Hypernatraemia Robert Zie		
1515-1530	tea break		
1530-1700	Small group case workshops: hyponatraemia & hypernatraemia		
	Ewout Hoorn, Chris Laing, Ben Walsh, Robert Zietse		
1700-1800	DEBATE		
	The Stewart method of acid-base clinical assessment is superior to classical acid-base theory in clinical practice		

Venue: Sir William Wells Atrium, Royal Free Hospital, ground floor Thursday 22 May PART 2: FLUIDS, ELECTROLYTES AND ACID-BASE

0845-0930	REGISTRATION	
0930-1000 1000-1030	Hypokalaemia Hyperkalaemia	Detlef Böckenhauer Kevin O'Shaughnessy Pascal Houillier
1030-1100 1100-1130	Magnesium in health and disease coffee break	Pascai Houilliei
1130-1200 1200-1230 1230-1300	Hypocalcaemia and hypercalcaemia Phosphate disorders Replacement and maintenance fluids	John Cunningham Andrew Hall Andrew Lewington
1300-1400 1400-1530	buffet lunch Small group case workshops: calcium, phosphate, magnesium, potassium	
1400-1550	Detlef Böckenhauer, Andrew Hall, Felix Knauf, Chris Laing, Ben Walsh	
1530-1600	Diuretics	Chris Wilcox
1600-1630	tea break	
1600-1730	NEPHROLOGY small group workshops	-
	Tubular disease workshop	Robert Kleta
	Fluid and electrolyte problems in dialysis CRITICAL CARE small group workshops	Charles Chazot
	Electrolyte problems in critical care	Neil MaCallum
	Fluid therapy in critical care: what is the evidence? ACUTE MEDICAL SPECIALITIES small group workshops	John Prowle
	Fluid, electrolyte and acid-base problems on medical take 1	Chris Laing
	Fluid, electrolyte and acid-base problems on medical take 2	Ben Walsh

Venue: Sir William Wells Atrium, Royal Free Hospital, ground floor Friday 23 May FRONTIERS IN RENAL PHYSIOLOGY

0830-0900	REGISTRATION	
0900-0940	The DCT: a short nephron segment for a big job	David Ellison
0940-1020	Bicarbonate transport in the distal nephron: recent insights acid/base balance and hypertension	Dominique Eladari
1020-1100	Calcium and magnesium handling	Pascal Houillier
1100-1115	coffee break	
1115-1155	The proton pump: the collecting duct and the inner ear	Fiona Karet
1155-1235	Oxalate, inflammation and renal failure	Peter Aronson
1235-1315	Potassium regulation: directions forward	Gerhard Giebisch
1315-1400	lunch break	
1400-1440	Genetic insights into the pathophysiology of Fanconi syndrome Robert	Kleta
1440-1520	Gas channels in the nephron: how and why	Walter Boron
1520-1600	EAST syndrome: a new disease gaining maturity	Detlef Bockenhauer
1600-1615	tea break	
1615-1655	ATP, the kidney and the inflammasome	Robert Unwin
1655-1735	Sympathetic activity, ion transport and hypertension	Gerald Di Bona
1735-1830	OLIVER WRONG Lecture	Giuseppe Remuzzi

INVITED FACULTY

Peter Aronson Yale University, USA
Matthew Bailey University of Edinburgh, UK

Detlef Böckenhauer Great Ormond Street Hospital and Institute of Child Health/UCL, London

Walter Boron Yale University, Meyers/Scarpa Chair Charles Chazot Nephrocare Tassin-Charcot, France

John Cunningham Royal Free London NHS Foundation Trust and UCL

Gerald DiBona Professor Emeritus of Medicine and Molecular Physiology and Biophysics, Iowa USA

Dominique Eladari Hôpital Européen Georges Pompidou, Paris David Ellison Oregon Health & Science University, USA

Lui Forni Worthing Hospital, UK Gerhard Giebisch Yale University, USA

Andrew Hall
Universität Zürich, Switzerland and UCL, London
Ewout J Hoorn
Erasmus Medical Center, Rotterdam, The Netherlands

Pascal Houillier Hôpital Européen Georges Pompidou and Université René Descartes, Paris

Philippe Jaeger UCL, London

Fiona Karet Cambridge Institute for Medical Research, UK

Robert Kleta UCL, London Felix Knauf Yale University, USA

Andrew Lewington
Christopher Lote
University of Birmingham, UK
Neil MaCallum
University College Hospital, London
King's College Hospital, London

Shabbir Moochhala Royal Free London NHS Foundation Trust and UCL

Kevin O'Shaughnessy Cambridge University Hospitals NHS Foundation Trust, University of Cambridge, UK

John Prowle The Royal London Hospital, UK Giuseppe Remuzzi Mario Negri Institute, Italy University of Bristol, UK

Steve Walter Emeritus, Imperial College London Christopher Wilcox Georgetown University, USA

Robert Zietse Erasmus Medical Center, Rotterdam, The Netherlands

COURSE DIRECTORS

Chris Laing Royal Free London NHS Foundation Trust and UCL, London

Robert J Unwin

UCL, London, and Royal Free NHS Foundation Trust
UCL, London, and Royal Free NHS Foundation Trust

Accreditation

CPD credit to be confirmed by the Royal College of Physicians of London

Certificate of Attendance

A Certificate of Attendance will be available to all registered delegates at the conclusion of the course

Course Administration

Pamela Fong Whitehead UCL Centre for Nephrology Royal Free UCL Medical School Nephrology, Floor 1 Rowland Hill Street London NW3 2PF

Tel +44 (0)20 7830 2930

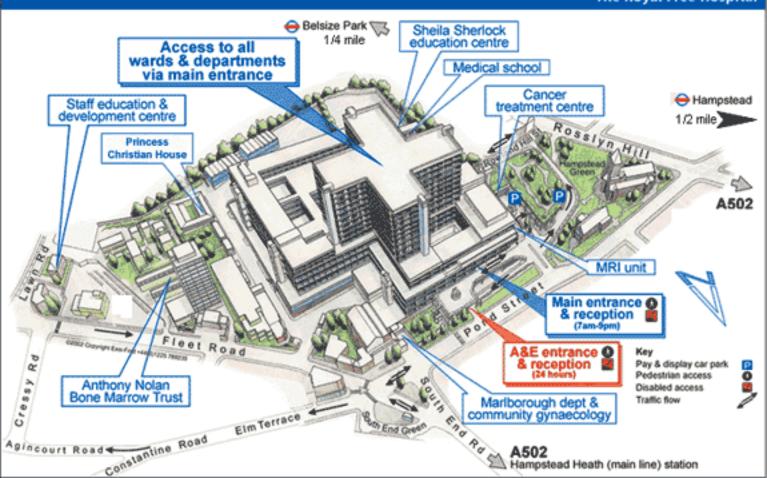
EMAIL:pf.whitehead@ucl.ac.uk

Disclaimer

All best endeavours will be made to present the programme as printed. However, the Course Administration reserves the right to alter or cancel, without prior notice, any arrangements, timetables, plans or other items relating directly or indirectly to the Course, for any cause beyond its reasonable control. In the event the Course is cancelled by the organisers, or cannot take place for any reason outside of the control of the organisers, the registration fee shall be refunded in full. The liability of the organiser shall be limited to that refund and the organisers shall not be liable for any other loss, cost, or expense, howsoever caused, incurred or arising.

The Royal Free Hospital

MHS



UCL APPLIED RENAL PHYSIOLOGY 2014

DAY 1: PRIMER IN RENAL PHYSIOLOGY Tuesday 20 May Royal Free Hospital

Venue: Tutorial Room 11, ground floor

Arrive at Royal Free Hospital and UCL Medical School, Rowland Hill Street entrance (NW3 2PF)

Go to the Medical School administration corridor on the ground floor (adjacent to the Haemophilia Centre). From Rowland Hill Street entrance, it is straight ahead of you and to the right of the lifts and white staircase.

Proceed down this corridor and take the second corridor to the left. There is a cluster of Tutorial Rooms 11, 12, and 13.

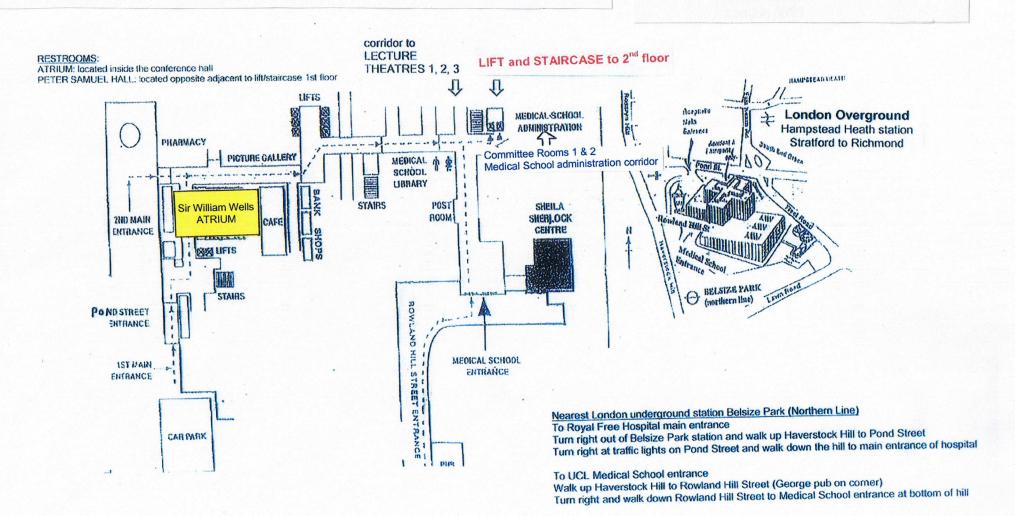
The course, including breaks and lunch, will be held in Tutorial Room 11.

Royal Free Hospital and UCL Medical School ground floor

UCL Medical School

Royal Free campus Rowland Hill Street London NW3 2PF

Royal Free London NHS Foundation Trust Pond Street, London NW3 2QG

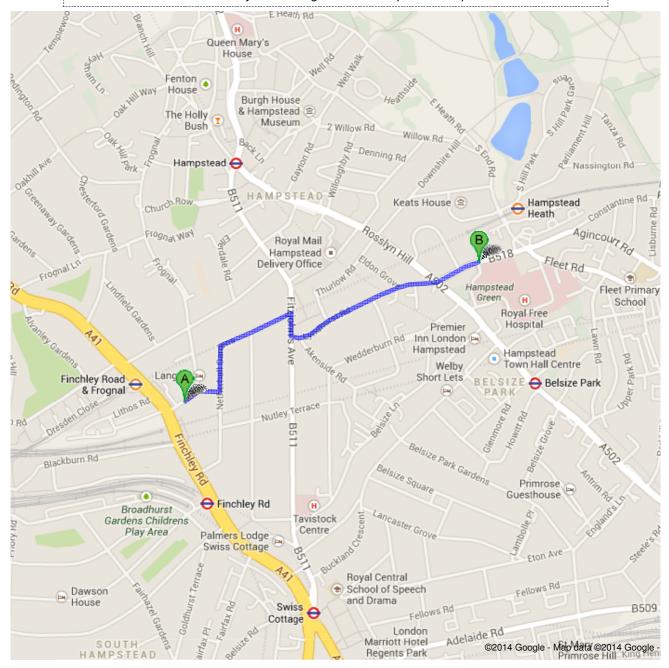




Directions to Royal Free HospitalPond St, London NW3 2QG, United Kingdom **0.8 mi** – about **16 mins**

Walking directions are in beta.

Use caution – This route may be missing sidewalks or pedestrian paths.





Quality Hotel Hampstead

5 Frognal, London, EN NW3 6AL, United Kingdom

Pond St, London NW3 2QG, United Kingdom

Head northeast on F About 58 secs	rognal	go 180 ft total 180 ft
2. Slight right onto Nethol About 1 min	erhall Way	go 223 ft total 404 ft
3. Turn left onto Netherl About 6 mins	hall Gardens	go 0.2 mi total 0.3 mi
4. Turn right onto Fitzjol	hn's Ave/B511	go 236 ft total 0.4 mi
5. Turn left onto Lyndhu About 6 mins	urst Rd	go 0.3 mi total 0.7 mi
6. Continue onto Pond S Destination will be on About 2 mins		go 489 ft total 0.8 mi
Royal Free Hospital		

These directions are for planning purposes only. You may find that construction projects, traffic, weather, or other events may cause conditions to differ from the map results, and you should plan your route accordingly. You must obey all signs or notices regarding your route.

Map data ©2014 Google

Directions weren't right? Please find your route on maps.google.com and click "Report a problem" at the bottom left.

Premier Inn Hampstead



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Directions:

Exit M1 onto the North Circular A406 eastbound, exit and join the A41 Hendon Way southbound. Turn left onto Arkwright Road and then turn right onto Fitzjohn's Avenue and left at the bottom onto Belsize Lane, which leads onto Ornan Road. The hotel is on the right at the top of the road.

Transport and local information:

Arsenal FC 2 miles

London Eye 3 Miles

Tower of London 3 miles

Hampstead Heath Train Station 0.5 mile

Belsize Park Tube Station 0.25 mile

Wembley Stadium 8 miles