

# RENAL PHYSIOLOGY 2013:

## A course and update for the clinician and scientist

10-12 April 2013

Sir William Wells Atrium

Royal Free Hospital, London NW3 2QG

This course aims to integrate physiological principles with day-to-day clinical practice and to update on recent developments in basic renal physiology. It will feature formal, introductory lectures each day and interactive clinical case presentations applying “thinking physiology” at the bedside.

It is intended for both clinicians and scientists (trainees in Nephrology, General (Internal) Medicine and Intensive Care Medicine, Consultant Nephrologists and General Physicians, and those working in veterinary medicine and non-clinical grades).

Course Directors: Robert J Unwin, Chris Laing, Ben Walsh

CPD credit (Royal College of Physicians of London) to be confirmed

**For registration and further information, please contact the Course Administrator:**

Pamela Fong Whitehead

UCL Centre for Nephrology Royal Free

UCL Medical School

Nephrology, Physiology, LEG, Floor 1

Rowland Hill Street

London NW3 2PF

Tel +44 (0)20 7830 2930

Fax +44 (0)20 7830 2765

EMAIL: [pf.whitehead@ucl.ac.uk](mailto:pf.whitehead@ucl.ac.uk)

## 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

- Attendance is limited to 80 participants
- Registration fee includes lunches and coffee breaks, reception, and Course Dinner

REGISTRATION FEES	3 days	per day	course dinner	CD rom of lectures
<b>SPR/SHO/Staff Grade</b>	£250.00	£95.00	included	£5.00
10% discount for <b>repeat</b> delegates and/or those attending <b>DIALYSIS 2013</b>	£225.00	£85.50	included	£5.00
RFH, UCL, UCLH, RVC, nurse	£200.00	£75.00	included	£5.00
Consultant	£300.00	£110.00	included	£5.00
NON-CLINICAL post-docs	£75.00	£30.00	optional £35.00	£5.00
Grad students (PhD)	£45.00	£15.00	optional £35.00	£5.00
Undergrad students	£30.00	£10.00	optional £35.00	£5.00
Pharmaceutical industry	£350.00		included	£5.00

## Payment

**Payment by cheque or international bank draft payable to: UCL  
(payment in £ sterling only)**

We regret that we do not accept credit cards.

## Confirmation

Confirmation of registration will be sent to delegates whose payment has been received.

## Cancellation

Notification of cancellations must be sent in writing to the Course Administrator. Cancellations will be accepted until **13 March** with a refund of the registration fee minus 25% administration fee. No refunds can be made for cancellations received after **13 March**. Substitutions of attendees can be made at any time.

**Registration closing date 13 March 2013**

## ACCOMMODATION

Rooms have been reserved at preferential rates at two hotels in Hampstead, within walking distance. Hotel reservations are made on a first-come, first-served basis. Rates include VAT and service charge.

	<b>Premier Inn Hampstead★★★★</b> 215 Haverstock Hill, London NW3 4RB Tel 0871 527 8662 <b>5 minutes walking distance</b>	<b>Hampstead Britannia ★★★</b> Primrose Hill Road, London NW3 3NA Tel 020 7586 2233 <b>15-20 minutes walking distance</b>
<b>single</b>	£118.95	£85.00
<b>double</b>	£118.95	£85.00
<b>twin</b>	£118.95	£85.00
<b>breakfast</b>	buffet breakfast included	full English breakfast included
<b>parking</b>	£14.00 per day	£5.00 per day (limited no of spaces)
<b>cancellation policy</b>	before 1300hr day of arrival	before 1200 noon day of arrival

Limited hospital accommodation available – please contact the Course Administrator for information

**Please reserve as soon as possible**  
**Hotel booking subject to availability after 13 March 2013**

### Hotel Reservations

Reservations should be made on the official Registration Form and reserved on a credit card. Reservations must be received by **13 March** and are subject to availability.

### Cancellation

Cancellations must be made direct to the hotel before 1200hr (Hampstead Britannia) and before 1300hr (Premier Inn Hampstead) on the day of arrival. Cancellations after this deadline will be charged one night's accommodation. Name substitutions can be made at any time. In the event of non-arrival, the hotel will release the reservation by 0900hr the following day and the reservation is non-refundable.

## DOCTOR in the HOUSE, Accommodation Agency

Accommodation in London for medical and all other professions

Tel 020 8870 5949

Email: [doctorinthehouse1@gmail.com](mailto:doctorinthehouse1@gmail.com)

[www.doctorhouse.co.uk](http://www.doctorhouse.co.uk)

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

Please contact Doctor in the House direct for information and booking

## Wednesday 10 April **An overview of some renal physiology basics**

### 0830-0930 **REGISTRATION**

0930	Welcome and introduction	
0945-1030	Renal blood flow and auto-regulation	Chris Lote
1030-1115	The renal medullary microcirculation	Claire Peppiatt-Wildman
1115-1130	Coffee break	
1130-1215	Glomerular filtration and permeability	Andy Salmon
1215-1300	The proximal tubule and its specialised functions	Andrew Hall
1300-1400	Buffet lunch	
1400-1445	Sodium homeostasis and transport along the nephron	Peter Aronson
1445-1530	A physiological approach to haemodynamic management in the ITU	Mervyn Singer
1530-1545	Tea break	
1545-1630	Potassium homeostasis and transport along the nephron	Matthew Bailey
1630-1715	Developments in our understanding of potassium balance	Gerhard Giebisch

### 1715-1800 **GUEST LECTURE 1** **Li-Ming Gan** **Non-invasive assessment of the coronary microcirculation: pathophysiology, prognostic value, and potential relevance to nephrology**

1800 **DRINKS RECEPTION**

## Thursday 11 April **More physiology basics plus some applied**

0930-1015	Quantifying the basics of renal function	Scott Thomson
1015-1100	Acid-base essentials	Steve Walter
1100-1115	Coffee break	
1115-1200	Acid-base and the kidney	Carsten Wagner
1200-1245	How the kidney and gut handle phosphate	Heini Murer
1245-1345	Buffet lunch	
1345-1430	Magnesium in health and disease	Pascal Houillier
1430-1510	Clinical cases 1	Philippe Jaeger
1510-1550	Clinical cases 2	Detlef Böckenhauer
1550-1605	Tea break	
1605-1645	Clinical cases 3	Robert Kleta
1645-1725	Clinical cases 4	Qi Qian

### 1725-1810 **GUEST LECTURE 2** **Julian Paton** **Inflammation and the sympathetic storm – an immunology and physiology interface**

1930 **COURSE DINNER**

## Friday 12 April **Further renal physiology basics and applied**

0900-0945	Calcium transport and renal stones	Giovambattista Capasso
0945-1030	Haemodialysis: benefits and risks	Charles Chazot
1030-1110	Hyponatraemia	Ewout Hoorn
1110-1125	Coffee break	
1125-1205	Hypernatraemia	Robert Zietse
1205-1245	Clinical cases 5	Rajiv Jalan
1245-1345	Buffet lunch	
1345-1430	Diuretic actions and uses	Christopher Wilcox
1430-1510	Clinical cases 6	Chris Laing/Ben Walsh
1510-1525	Tea break	

### 1525-1610 **GUEST LECTURE 3** **Kaila Srail** **New developments in iron (Fe) transport and homeostasis: implications for the kidney?**

1610 **CLOSE OF COURSE**

## INVITED FACULTY

Peter Aronson	Yale University, USA
Matthew Bailey	University of Edinburgh, UK
Detlef Böckenhauer	Great Ormond Street Hospital and UCL, London
Giovambattista Capasso	Second University of Naples, Italy
Charles Chazot	Nephrocare Tassin-Charcot, France
Li-Ming Gan	University of Gothenburg, Sweden and AstraZeneca Sweden
Gerhard Giebisch	Yale University, USA
Andrew Hall	Universität Zürich, Switzerland and UCL, London
Pascal Houillier	Université René Descartes, Paris
Ewout Hoorn	Erasmus Medical Center, Rotterdam, The Netherlands
Philippe Jaeger	UCL, London
Rajiv Jalan	UCL, London
Robert Kleta	UCL, London
Chris Lote	University of Birmingham, UK
Heini Murer	Universität Zürich, Switzerland
Julian Paton	University of Bristol, UK
Claire Peppiatt-Wildman	University of Kent & Canterbury, UK
Qi Qian	Mayo Clinic, Minnesota, USA
Andy Salmon	University of Bristol, UK
Mervyn Singer	UCL, London
Kaila Srail	UCL, London
Scott Thomson	University of San Diego, USA
Carsten Wagner	Universität Zürich, Switzerland
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 Hospital and UCL, London
Robert J Unwin	UCL, London
Ben Walsh	UCL, London

## 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

## CD Rom (optional)

A CD rom of lectures will be sent to delegates after the course

## Course Administration

Pamela Fong Whitehead  
UCL Centre for Nephrology Royal Free  
UCL Medical School  
Nephrology, Physiology, LEG, Floor 1  
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London NW3 2PF  
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Fax +44 (0)20 7830 2765

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### 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.*

# Registration **RENAL PHYSIOLOGY 2013, 10-12 April 2013**

Please complete in full in BLOCK LETTERS

Title \_\_\_\_\_ Last name \_\_\_\_\_ First name \_\_\_\_\_

Post \_\_\_\_\_ Institution \_\_\_\_\_ Dept \_\_\_\_\_

Mailing address \_\_\_\_\_

City \_\_\_\_\_ Postal code \_\_\_\_\_

Tel/Mob \_\_\_\_\_ Email \_\_\_\_\_

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Undergrad students	£30.00	£10.00	optional £35.00	£5.00
Pharmaceutical industry	£350.00		included	£5.00

Dietary requirements vegetarian vegan other \_\_\_\_\_

**WELCOME RECEPTION** I will I will not attend on **Wednesday 10 April**

**COURSE DINNER** I will I will not attend on **Thursday 11 April**

**Payment enclosed registration fee** £ \_\_\_\_\_ **CD rom** £ \_\_\_\_\_

Registration accepted only with payment in full. **Payment by cheque or international bank draft payable to: UCL (payment in £ sterling only).**

We regret we do not accept credit cards. **Registration closes on 13 March 2013**

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Limited hospital accommodation available, please contact the Course Administrator for information.

hotel \_\_\_\_\_ room type \_\_\_\_\_ no of persons \_\_\_\_\_

arrival date \_\_\_\_\_ departure date \_\_\_\_\_ no of nights \_\_\_\_\_

**Reservations must be reserved on credit card. No pre-paid reservations accepted.**

AMEX  MasterCard  Visa

No

expiry date \_\_\_\_\_ name on card \_\_\_\_\_ signature \_\_\_\_\_

**Hotel booking closes on 13 March 2013** Hotel accommodation subject to availability after 13 March.

Please return registration and payment to the Course Administrator: **REF: RENAL PHYSIOLOGY 2013**, Pamela Fong Whitehead  
UCL Centre for Nephrology Royal Free, UCL Medical School, Nephrology, Physiology, LEG, Floor 1, Rowland Hill Street, London NW3 2PF  
**Tel +44 (0)20 7830 2930 Fax +44 (0)20 7830 2765 EMAIL: pf.whitehead@ucl.ac.uk**

**Data Protection:** If you do not wish to have your name and work place made available to delegates and sponsors, please indicate here.

Please do NOT include my name on the delegate list

Administration Use Only  
date received \_\_\_\_\_ cheque date \_\_\_\_\_ cheque amount \_\_\_\_\_

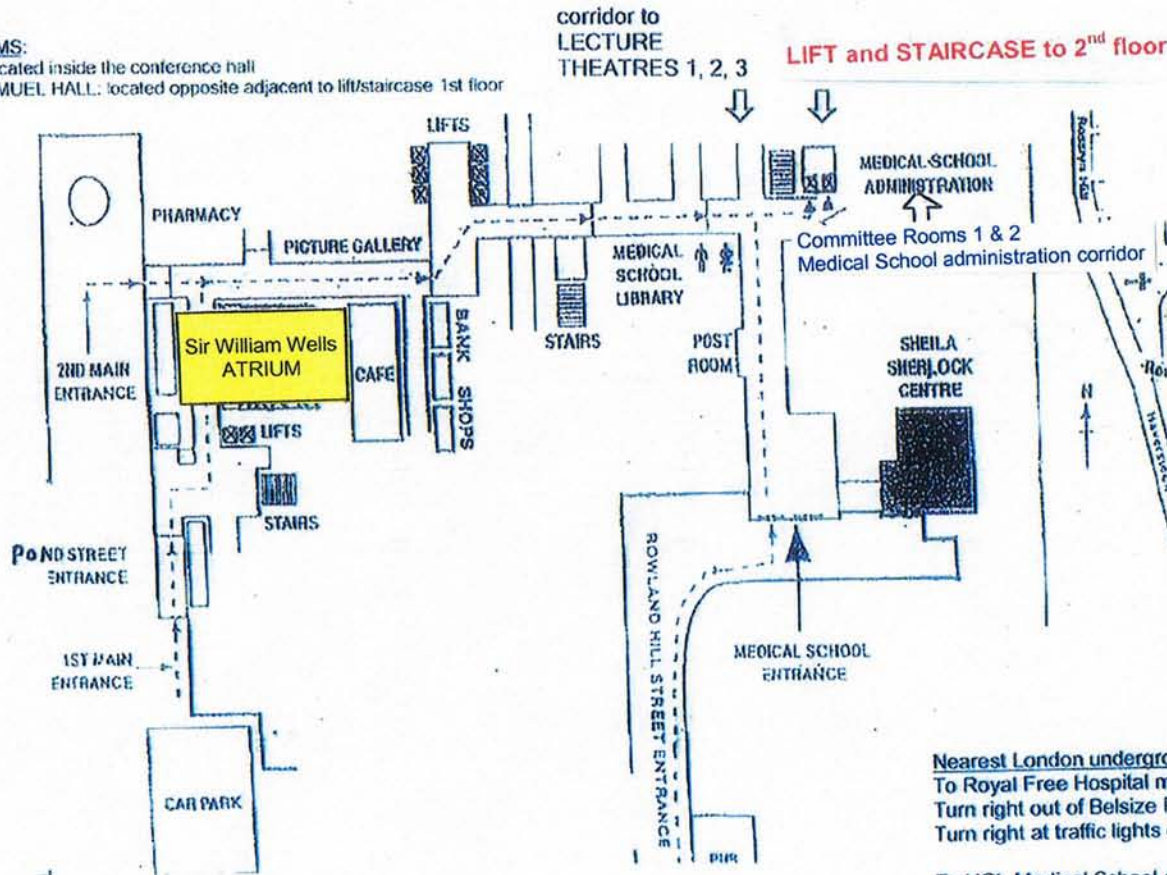
date of conf \_\_\_\_\_ accomm booked \_\_\_\_\_

# 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

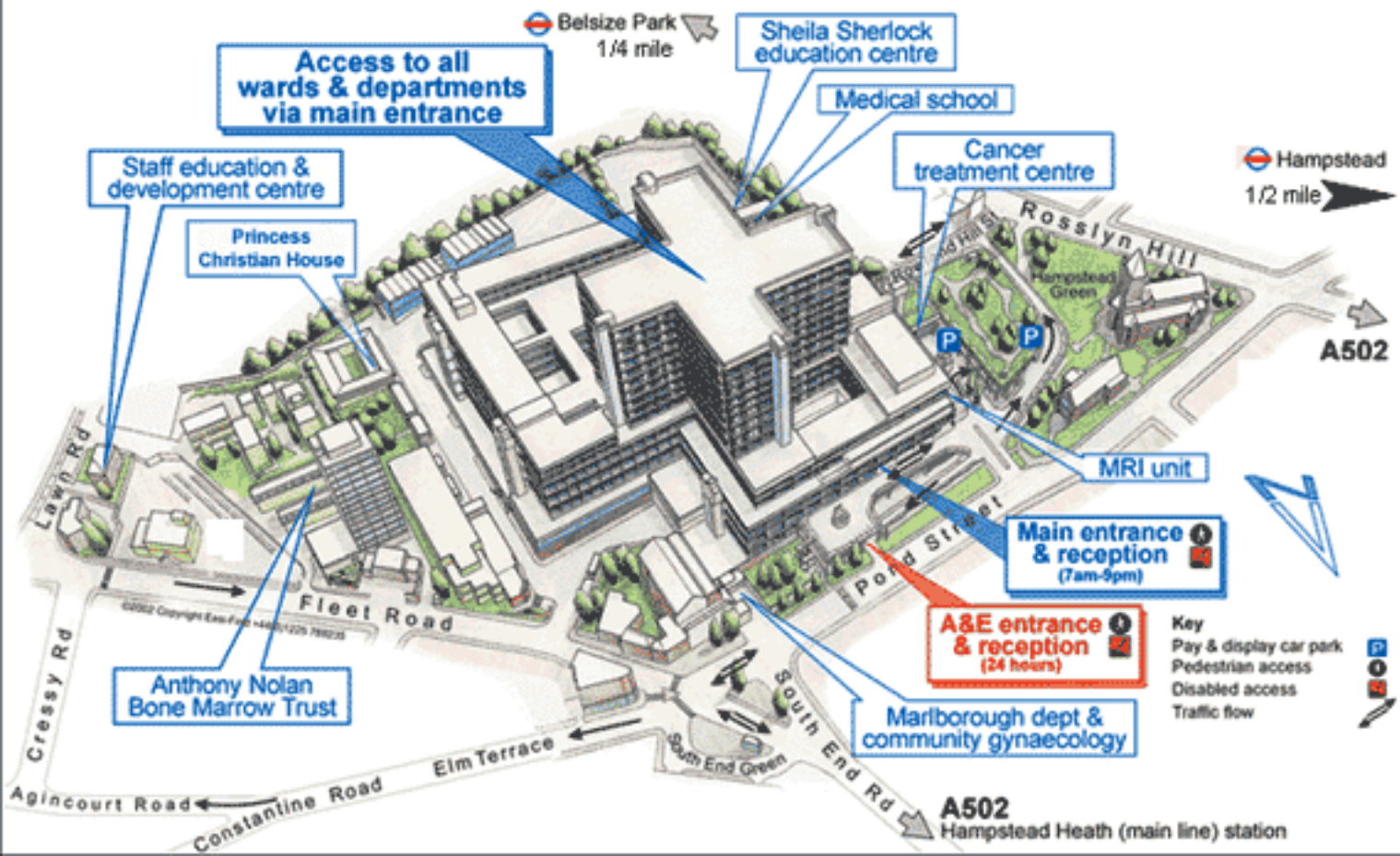
**RESTROOMS:**  
ATRIUM: located inside the conference hall  
PETER SAMUEL HALL: located opposite adjacent to lift/staircase 1st floor



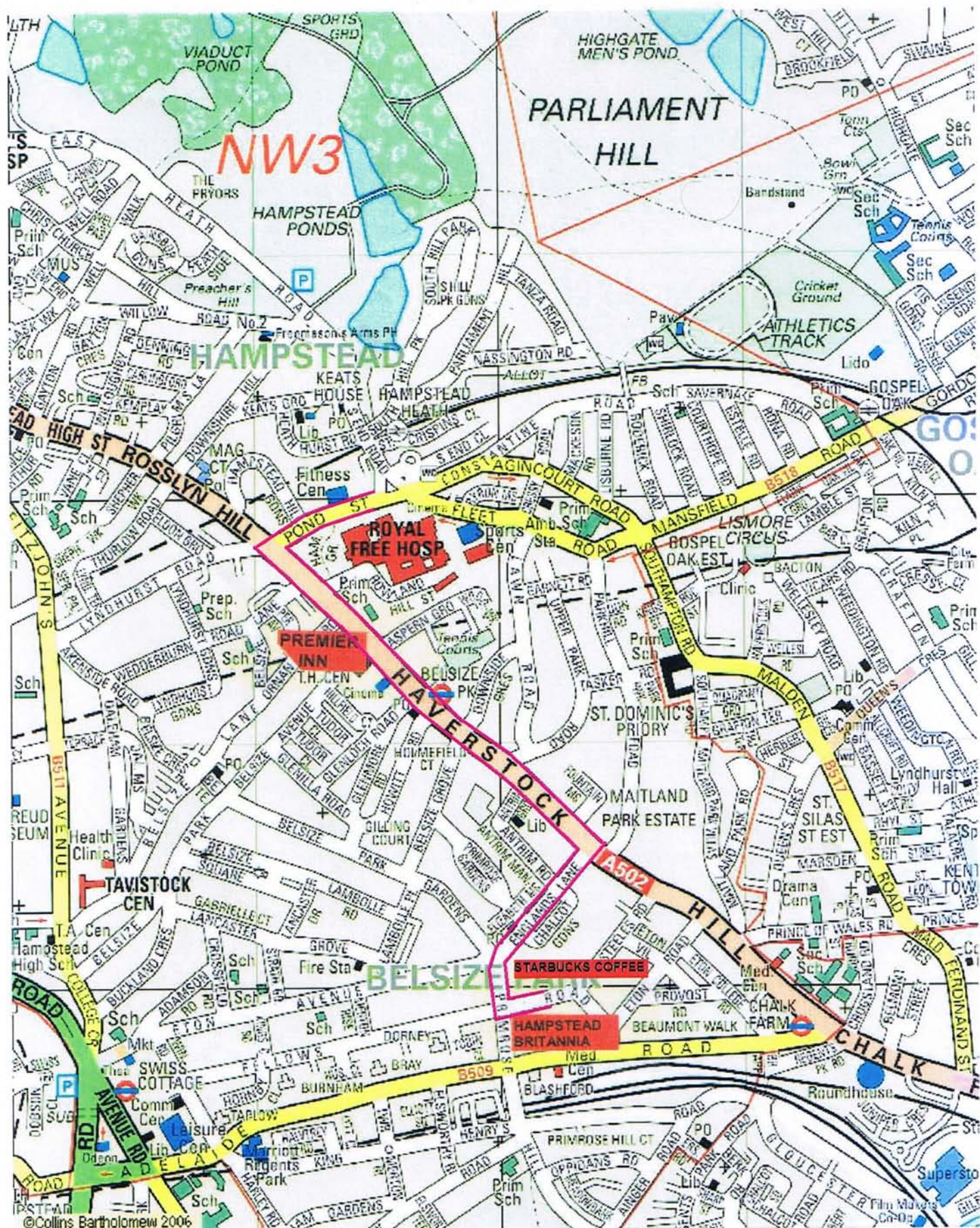
Nearest London underground station Belsize Park (Northern Line)  
To Royal Free Hospital main entrance  
Turn right out of Belsize Park station and walk up Haverstock Hill to Pond Street  
Turn right at traffic lights on Pond Street and walk down the hill to main entrance of hospital

To UCL Medical School entrance  
Walk up Haverstock Hill to Rowland Hill Street (George pub on corner)  
Turn right and walk down Rowland Hill Street to Medical School entrance at bottom of hill

The Royal Free Hospital







# Britannia Hampstead Hotel

## Primrose Hill Road, London NW3 3NA

walking time to Royal Free approx 10-12 minutes

Exit hotel onto corner of Fellows Road and Primrose Hill Road

Walk up Primrose Hill Road to England's Lane (head for the Washington pub and Starbuck's on corner)

Walk down England's Lane to Haverstock Hill

Turn left and walk up Haverstock Hill past Belsize Park Tube station to Pond Street

The Royal Free Hospital is in the middle of Pond Street

### Mini-cab from hotel to Royal Free

If you need to take a taxi to the Royal Free, please try to share your taxi with another speaker

[Belsize Park Cars 020 7435 8088](tel:02074358088)  
approx £6 each way

# Hampstead Britannia Hotel

Primrose Hill Road, Hampstead, London, NW3 3NA

Tel: 0871 222 0043 Fax: 0871 222 7713

This London hotel is situated within walking distance of Hampstead Village and its designer shops, continental cafe bars, restaurants, and the famous Primrose Hill.

London Zoo and Lord's Cricket Ground are within easy reach of the Hampstead Britannia Hotel. For football, concert and events lovers, Wembley Stadium and Wembley Arena are only half an hour away on the Jubilee line, making this a popular hotel in Hampstead.

The Hampstead Britannia has 121 en-suite bedrooms with modern facilities including TV, telephone, hairdryer, trouser press and tea & coffee making facilities.



The hotel has a pleasant conservatory restaurant and an adjoining bar serving light snacks and drinks with an outside terrace.

Please Note - The car park is now chargeable which can be paid at reception upon check-in, on a first come first served basis. Parking spaces cannot be reserved.

## Hampstead Britannia hotel directions

### By Bus

Bus Number C11 stops right in front of the Britannia Hampstead Hotel. The bus route is found at <http://www.tfl.gov.uk/tfl/>.

Alternatively, you could take Number 168 and alight at England's Lane stop or Number 31.

### By Train

Hampstead Heath is the closest Train Station. Turn left onto South End Road, Bear left onto South End Green, Turn right onto B518 Pond Street, Turn left onto A502 Rossllyn Hill, Turn right onto England's Lane, Turn left onto Primrose Hill Road, Turn left onto Fellows Road, Arrive at the Britannia Hampstead Hotel.

### From the Airport

By Tube - Take The Piccadilly Line from the airport. The closest tube stations are either Chalk Farm or Swiss Cottage. If you get off at Chalk Farm Station on Northern Line, turn right out of the station, then turn right again at the first set of traffic lights on to Primrose Hill Road and Hampstead Hotel is on your right. If you get off at Swiss Cottage Station on Jubilee Line, take the Exit No 2 out to Eton Avenue, take Eton Avenue all the way down to Primrose Hill Road and the hotel in Hampstead is on your right hand side across the road.

### By Tube

#### From Kings Cross St. Pancras

Take the Southbound Victoria line to Euston station. Change at Euston to the northbound Northern line heading for Edgware. Alight at Chalk Farm station Turn right out of Chalk Farm station and walk for 5-10minutes until the first set of traffic lights. Turn right onto Primrose Hill Road, the Britannia Hotel is 100 yards on the right hand side.

## **From Oxford Street**

Take the Northbound Victoria line, to Euston station. Change at Euston to the northbound Northern line heading for Edgware. Alight at Chalk Farm station. Turn right out of Chalk Farm station and walk for 5-10minutes until the first set of traffic lights. Turn right onto Primrose Hill Road, this Hotel in Hampstead is 100 yards on the right hand side.

## **From Leicester Square**

Take the northbound Northern line heading for Edgware. Alight at Chalk Farm station. Turn right out of Chalk Farm station and walk for 5-10minutes until the first set of traffic lights. Turn right onto Primrose Hill Road, the Britannia Hampstead Hotel is 100 yards on the right hand side.

## **From Paddington**

Take the Bakerloo line to Baker Street Change to the Northbound Jubilee line. Alight at Swiss Cottage. Take the C11 bus from Swiss cottage, taking around 5 minutes approximately and alight outside the Britannia Hotel in Hampstead.

## **From Heathrow Airport**

Take the Eastbound Piccadilly line to Leicester square. Change to the northbound Northern line heading for Edgware. Alight at Chalk Farm station Turn right out of Chalk Farm station and walk for 5-10minutes until the first set of traffic lights. Turn right onto Primrose Hill Road, the Britannia Hampstead Hotel is 100 yards on the right hand side.

## **Motorway**

### ***From the North***

Follow the M1 onto the North Circular Road Eastbound A406. Follow signs for the A41 Swiss Cottage. At Swiss Cottage, head left towards Chalk Farm and Camden Town, At the 2nd set of lights, turn left onto Primrose Hill Road. The Hampstead Britannia Hotel is on the right hand side.

### ***From the West***

Follow the M40 onto the A40 and follow signs for A406 North Circular Road. Follow signs for the A41 Swiss Cottage. At Swiss Cottage head left towards Chalk Farm and Camden Town. At the 2nd set of lights, turn left onto Primrose Hill Road. The Hampstead Britannia Hotel is on the right hand side.

### ***From the North East***

Take the M11 onto the M25, anti-clockwise, towards Watford M1. Take the M1 southbound and follow the M1 onto the North Circular Road, eastbound A406. Follow the signs for the A41 Swiss Cottage. At Swiss Cottage, head left towards Chalk Farm and Camden Town. At the 2nd set of lights, turn left onto Primrose Hill Road. The Hampstead Britannia Hotel is on the right hand side.

### ***From the South***

Join the M25 towards Heathrow. Continue on the M25, northbound, and join the M1. Follow the M1 onto the North Circular Road eastbound A406. Follow signs for the A41 Swiss Cottage. At Swiss Cottage, head left towards Chalk Farm and Camden Town. At the 2nd set of lights, turn left onto Primrose Hill Road. The Hampstead Hotel is on the right hand side.

### ***From the East***

Join the M25 and travel northbound to join the M1. Follow the M1 onto the North Circular Road A406. Follow the M1 onto the North Circular Road A406. Follow signs for the A41 Swiss Cottage, head left towards Chalk Farm and Camden Town. AT the 2nd set of lights, turn left onto Primrose Hill Road. The Hampstead Britannia Hotel is on the right hand side.

## Premier Inn Hampstead



215 Haverstock Hill, Hampstead, London NW3 4RB

**T: 0871 527 8662**

**F: 0871 527 8663**

Located close to Hampstead Heath and Kenwood House. Ideally situated for a wide variety of restaurants, with bars and boutique stores close by. Within easy reach of M1 and Belsize Park tube station with central London just 15 minutes away by tube.

Our London Hampstead Premier Inn has everything you'd expect, incredibly comfy beds in every room and an onsite restaurant.



### 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