

CURRICULUM VITAE

OMER M. A. KARIM

PERSONAL DETAILS

NAME	Omer Mahmoud Abdel KARIM
DATE OF BIRTH	16 September 1958
AGE	47
PLACE OF BIRTH	Omdurman, Sudan
NATIONALITY	British
MARITAL STATUS	Married with one son and one daughter
GMC REGISTRATION	2598534 (Full)
MEDICAL DEFENCE UNION	281075

EDUCATION AND QUALIFICATIONS

GENERAL EDUCATION	1965 – 1968	The British Embassy School, Bonn West Germany
	1968 – 1970	Ivy Bank Primary School, Macclesfield, Cheshire
	1970 – 1977	The King's School, Macclesfield, Cheshire
MEDICAL EDUCATION	1977 – 1982	Charing Cross Hospital Medical School, London W6
QUALIFICATIONS	1982	MB BS
	1987	FRCSEd
	1988	FRCSEng
	1993	MS
	1994	FRCSUrol
DISTINCTIONS	1989	Postgraduate Prize Charing Cross Hospital Medical School
	1992	Lapides Essay Contest in Neurourology and Urodynamic Research: Second Prize
	1992	American Urological Association Essay Contest in Laboratory Research: Second Prize
	1993	Simpla Research Prize
SCHOLARSHIPS	1989	King Edward's Hospital Fund for London Travel Bursary
	1987	Ethicon Foundation Travel Grant from the Royal College of Surgeons of Edinburgh
	1994	Lewis Medical Travelling Scholarship

SUMMARY OF CLINICAL EMPLOYMENT

Urology	Senior Registrar	30 months
Urology	Registrar	3 months (Locum) 8 months Lithotripsy and MIT (RSO)
Urology and Renal Transplant	Registrar	12 months
General Surgery	Registrar	18 months Post FRCS 6 months Pre FRCS
Urology	SHO	6 months
General/Vascular Surgery	SHO	6 months
Cardiothoracic Surgery	SHO	6 months
Orthopaedic Surgery	SHO	6 months
A+E	SHO	6 months

SPECIAL INTERESTS

Lead in Prostate Cancer
Lead in Renal Cancer
Stone surgery
Green Light laser prostate surgery (PVP)
Robotic surgery

SUB SPECIALISATION

Prostate cancer
Radical prostatectomy
Robotic minimally invasive surgery - da Vinci prostatectomy
BPH
Laser surgery (PVP – photoselective vapourisation of prostate)
Mens health
Large renal cancer and partial nephrectomy
Stone surgery
Laser ureteroscopy
Paediatric urology

APPOINTMENTS

PRESENT APPOINTMENT

April 1995 to date

Consultant Urological Surgeon
Heatherwood & Wexham Park Hospitals Trust

Lead Consultant in Urology Since 1999

My clinical interest is localised prostate cancer. I receive all referrals suitable for surgery and have performed over 300 anatomical nerve sparing radical prostatectomies. I undertake laparoscopic surgery and have recently developed and interest in robotic radical prostatectomy. I trained in robotics at the ESS (European School of Surgery).

OTHER INFORMATION

Lead Clinician in Urology
Honorary Robotic Surgeon to St Mary's Hospital, Paddington
Examiner for In-Service Examinations and MSc in Urology, Institute of Urology, UCL
Clinical Lead for Action on Urology Wexham Park Hospital
Member of National Steering Committee for Informed Decision Making in Urology
Lead in Prostate Cancer East Berkshire
Only robotic urological surgeon in Thames Valley Cancer Network
Trainer in robotic surgery

PREVIOUS APPOINTMENTS

From	To	Appointment	Hospital	Specialty
2/86	7/86	RSO	Brompton Hospital London	Cardiothoracic Surgery (Mr M Paneth and Mr C Lincoln)
8/86	6/87	Registrar	Heatherwood Hospital Ascot Berkshire	General Surgery with Urology (Mr R J Luck, Mr G S Barrett and Mr J W Blaxland)
7/87	12/87	Registrar	King Edward VII Hospital	General Surgery with

			Windsor Berkshire	Urology (Mr R J Luck, Mr G S Barrett and Mr J W Blaxland)
1/88	12/88	Registrar	Royal Free Hospital Pond Street London	Urology – Renal Transplant (Mr A V Kaisary, Mr R J Morgan and Mr O N Fernando)
1/89	6/89	Registrar	Academic Unit of Surgery Whittington Hospital London	General Surgery (Professor Wyllie and Mr I G Kidson)
7/89	12/91	Fellow	Brady Urological Institute Johns Hopkins Hospital Baltimore Maryland USA	Urology Research (Dr J L Mostwin and Dr D S Coffey)
1/92	8/92	RSO	M I T Unit The London Clinic 20 Devonshire Place London	Lithotripsy and Minimally Invasive Therapy (Mr J E A Wickham)
9/92	11/92	Locum SR	The Institute of Urology and Nephrology 48 Riding House Street London	Urology (Mr P R Riddle, Mr C J Rudge and Mr E Milroy)
12/92	4/95	Senior Registrar	The Royal Hospitals NHS Trust	Urology (Mr A Paris, Mr D Badenoch and Mr C Fowler)

RESEARCH

Past research

MASTERSHIP OF SURGERY

The work for this thesis was undertaken while I was a Fellow in the Brady Urological Institute at the Johns Hopkins Hospital, Baltimore, Maryland. I was invited by Dr Jacek L Mostwin, D.Phil. to go to the USA and work in the Brady Laboratories. Dr Donald S Coffey was director of research and the work was funded by an NIH grant to study the effects of BPH on the bladder.

Title: An experimental study on the effects of outflow obstruction on the bladder

The urinary bladder undergoes considerable structural and functional changes in response to bladder outflow obstruction in man. The mechanisms regulating the structural reorganisation of the bladder in response to this mechanical obstruction of the urinary stream are poorly understood. I used a guinea pig model of bladder outflow obstruction for the experiments undertaken in the thesis. I was able to show that myocyte growth in the detrusor and the expression of growth related proto oncogenes correlated with the onset of obstructive voiding patterns in these animals. In addition, I performed in-vitro experiments and was able to demonstrate that the growth of visceral smooth muscle, in general, could be mediated by mechanical factor in the absence of other trophic factors. I established a primary culture of detrusor smooth muscle myocytes from guinea pig bladder and, using in-vitro intracellular and extracellular mechanical stimuli, I concluded that there is mechanico-chemical signal transduction between the intravesical lumen and the

genome. Increased mechanical mural stimuli in the obstructed bladder would, thus, directly modulate cell growth and gene expression.

This thesis was accepted for an M S degree from the University of London in February 1993.

Work from this thesis resulted in two distinctions, The Lapidus Essay: Second Prize and the American Urological Association Laboratory Research Essay: Second Prize.

Present research

Point-of-care PSA testing. I am lead investigator in an on-going clinical trial evaluating PSAwatch, a new quantitative point-of care PSA assay. This is manufactured by Mediwatch, a company in which I am a Non-Executive Director.

PEER REVIEWED PAPERS

1. McBurney's point--fact or fiction? **Karim OM**; Boothroyd AE; Wyllie JH. *Ann R Coll Surg Engl* 1990 Sep;72(5):304-8
- 2 The guinea pig as a model of gradual urethral obstruction. Mostwin JL; **Karim OM**; van Koevering G; Brooks EL. *J Urol* 1991 Apr;145(4):854-8
3. Changes in action potential kinetics following experimental bladder outflow obstruction in the guinea pig. Seki N; **Karim OM**; Mostwin JL. *Urol Res* 1992;20(6):387-92
4. Changes in the electrical properties of guinea pig smooth muscle membrane by experimental bladder outflow obstruction. Seki N; **Karim OM**; Mostwin JL. *Jpn J Pharmacol* 1992;58 Suppl 2:370P
5. Analysis of the detrusor smooth muscle action potential. **Karim OM**; Seki N; Mostwin JL. *Urol Res* 1992;20(2):173-6
6. The effect of age on the response of the detrusor to intracellular mechanical stimulus: DNA replication and the cell actin matrix. **Karim OM**; Seki N; Pienta KJ; Mostwin JL. *J Cell Biochem* 1992 Apr;48(4):373-84
7. Changes in electrical properties of guinea pig smooth muscle membran Am J Physiol 1992 May;262(5 Pt 2):F885-91e by experimental bladder outflow obstruction. Seki N; **Karim OM**; Mostwin JL.
8. Stretch-mediated visceral smooth muscle growth in vitro. **Karim OM**; Pienta K; Seki N; Mostwin JL. *Am J Physiol* 1992 May;262(5 Pt 2):R895-900
9. Effect of pinacidil on the membrane electrical activity of guinea pig detrusor muscle. Seki N; **Karim OM**; Mostwin JL. *J Pharmacol Exp Ther* 1992 Nov;263(2):816-22
10. The effect of experimental urethral obstruction and its reversal on changes in passive electrical properties of detrusor muscle. Seki N; **Karim OM**; Mostwin JL. *J Urol* 1992 Dec;148(6):1957-61

11. Detrusor hyperplasia and expression of "immediate early" genes with onset of abnormal urodynamic parameters. **Karim OM**; Seki N; Mostwin J *Am J Physiol* 1992 Dec;263(6 Pt 2):R1284-90L.
12. Developmental alterations in the fetal lamb bladder subjected to partial urethral obstruction in utero. **Karim OM**; Cendron M; Mostwin JL; Gearhart JP. *J Urol* 1993 Sep;150(3):1060-3
13. Guinea pig as an animal model for the study of urinary bladder function in the normal and obstructed state. Mostwin JL; **Karim OM**; Van Koeveringe G; Seki N. *Neurourol Urodyn* 1994;13(2):137-45
14. A fetal lamb model of partial urethral obstruction: experimental protocol and results. Cendron M; Horton CE; **Karim OM**; Takishima H; Haberlik A; Mostwin JL; Gearhart JP. *J Pediatr Surg* 1994 Jan;29(1):77-80
15. Elastin morphology in normal and obstructed guinea-pig bladders. Localization of elastin to the trigone. Ji P; **Karim OM**; Boyd CD; Mostwin JL; Ward WS. *World J Urol* 1995;13(3):191-4
16. Rao AR, Beatty JD, Laniado M, Motiwala H, **Karim O**. Publication rate of abstracts presented at the British Association of Urological Surgeons annual meeting. *BJU Int* 2005; In Revision
17. Rao AR, Motiwala H, **Karim O**. Dynamic Pharmacangiography. *Urology News* 2005; In press.
18. Rao AR, Motiwala H, **Karim O**. Complex renal cyst. *Urology News* 2005; In press.
19. Mishra VC, Rao AR, Desai AR, Charig M, **Karim O**. Unique extra-anatomic urinary diversion! *J Endourol* 2004 Feb;18(1):57-58.
20. Mishra V, Rowe E, Rao A, Laniado M, Motiwala H, Hudd C, **Karim O**. The Role of IVU in patients with Haematuria. *Scand J Urol Nephrol* 2004;38(3):236-239.

NON-PEER REVIEWED PAPERS

Karim, O M A. (1993). Mechanical stimuli and detrusor organogenesis. *Dialog Paed Urol* 16, 3-4.

Mostwin, J L., **Karim, O M A.**, Van Koeveringe, G., and Seki, N. the guinea pig as an animal model for the study of urinary bladder function in the normal and obstructed state. *Neuro Urodyn* (in press)

MISCELLANEOUS

Journal Cover

Karim, O M A. et al "Nuclear Actin and DNA Replication" *J Cell Biochem* Volume 48, Number 4, April 1992

PRESENTATIONS

(with published abstracts)

Cendron, M., **Karim, O M A.**, Mostwin, J L., and Gearhart, J P. (1992). In utero, partial urethral obstruction in the fetal lamb: Structural changes seen in the developing bladder. J Urol 147, 225A.

Ji, P., **Karim, O M A.**, Friedman, J., Mostwin, J L., Boyd, C D., Cummings, K B., and Ward, W S. (1992). Three dimensional architecture of elastin in obstructed and normal guinea pig bladder: Predominance in the trigone. J Urol 147, 469A.

Karim, O M A., Van Koeveringe, G., and Mostwin, J L. (1990). Development of abnormal voiding patterns following partial obstruction of the guinea pig urethra. J Urol

Karim, O M A., Cendron, M., Mostwin, J L., and Gaerhart, J P. (1991). Developmental structural reorganisation in the partially obstructed fetal lamb bladder. Neuro Urodyn 10, 404.

Karim, O M A., Seki, N., Pienta, K J., and Mostwin, J L. (1991). In-vivo and in-vitro models for stretch induced detrusor myocyte growth. Neuro Urodyn 10, 401.

Karim, O M A., and Mostwin, J L. (1990). Reversibility of urodynamic parameters following release of short term obstruction of the guinea pig bladder. Proceedings of the International Continence Society, Aarhus, Denmark, Sept 12-15. 14-15.

Karim, O M A., and Mostwin, J L. (1990). Changes in bladder choline acetyltransferase activity following short term obstruction and release of obstruction. Neuro Urodyn 9, 427-428.

Karim, O M A., and Mostwin, J L. (1991). Bladder outflow obstruction and release in the guinea pig. Effect on urodynamic parameters and biochemical markers of detrusor structure. J Urol 145, 387A.

Karim, O M A., Pienta, K J., Seki, N., and Mostwin, J L. (1992). The effect of age on the response of the detrusor to mechanical stimulus: DNA replication and matrix alterations. J Urol 147, 474A.

Karim, O M A., Seki, N., and Mostwin, J L. (1992). Detrusor hyperplasia and expression of c-fos and c-myc with onset of abnormal urodynamic parameters in the experimentally obstructed bladder. J Urol 147, 314A.

Seki, N., **Karim, O M A.**, and Mostwin, J L. (1991). Effect of outflow obstruction on action potentials of the detrusor smooth muscle. Neuro Urodyn 10, 402.

Seki, N., **Karim, O M A.**, and Mostwin, J L. (1991). Change in electrical properties of the smooth muscle membrane with bladder outflow obstruction. Neuro Urodyn 10, 403.

Seki, N., **Karim, O M A.**, and Mostwin, J L. (1992). Changes in the action potential properties of the detrusor smooth muscle membrane following experimental bladder outflow obstruction and release of obstruction in the guinea pig. J Urol 147, 349A.

Seki, N., **Karim, O M A.**, and Mostwin, J L. (1992). Changes in the electrical properties of guinea pig smooth muscle membrane by experimental bladder outflow obstruction. Japan J Pharmacol 58 Suppl 2, 370P.

Ward, W S., **Karim, O M A.**, Ji, P., Pierce, R A., Levi-Menzi, S A., Mackenzie, J W., Cummings, K B., Boyd, C D., and Mostwin, J L. (1991). Elevated levels of tropoelastin and mRNA following short term bladder outflow obstruction in the guinea pig. J Urol 145, 388A.

MEMBERSHIP OF LEARNED SOCIETIES

Associate Member	British Association of Urological Surgeons
Fellow	Royal Society of Medicine
Member	International Continence Society
Member	British Medical Association

GENERAL INTERESTS

I keep bees and I have two hives. I studied beekeeping at the Berkshire College of Agriculture

I enjoy aeromodelling and have built several radio controlled aircraft. I fly power kites (Flexifoil) and stunt kites (Hawiiian Team).

I am interested in photography and I use a Canon A1 and EOS20D. I am keen on micro computing and I took a BTEC course in Computer Programming in evening class at Ealing College of Higher Education, learning Pascal and Basic.

COMMERCIAL APPOINTMENTS

Non-executive Director Mediwatch Plc

Director Oldfield Lodge Property Holdings Ltd
Director Oldfield Lodge Medical Practice Ltd

REFERREES

Mr Hanif Motiwala FRCSUrol
Consultant Urological Surgeon
Wexham Park Hospital
Slough
Berkshire

Mr Marc Laniado
Consultant Urological Surgeon
Wexham Park Hospital
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Berkshire

