

CURRICULUM VITAE

AFSHIN (Ash) MOSAHEBI

MBBS(Lon) PhD(Lon) MBA(Warwick) FRCS (Plast)

**Professor & Consultant Plastic Surgeon & at Royal
Free Hampstead NHS Trust Hospital & UCL Medical
School,
London**

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Personal details

Name: Afshin Mosahebi Esq.

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Date of Birth: 15th September 1967

Nationality: British

Marital Status: Married

Education & qualifications

School: **A-levels**, 4 all grade A, South Thames, Putney Hill, London

Undergraduate: **MBBS**, United Medical School of Guy's & St Thomas'

Postgraduate: **United States Medical Licence (I & II)** 1994

Fellow of The Royal College of Surgeons of Edinburgh, 1995

PhD Doctor of Philosophy (Plastic surgery), University of London, 2001

Master of Business & Administration, Warwick Business School, University of Warwick, 2004

Specialty exam: FRCS (Plast), March 2006 (1st attempt)

CCT date: Oct 2007

Diploma of American Board of Regenerative Medicine 2015

Professional History

Dates and detail of position held and institution

2001-2005 Plastic surgical specialist training, London Deanery
2006 Clinical Fellowship, Memorial Sloan Kettering Cancer Institute, NYC
USA
2008 Consultant Plastic Surgeon, Royal Free Hospital
2008 Hon Senior lecturer, UCL
2012 Clinical Head of Plastic surgery department
2015 Academic lead for plastic surgery, UCL
2015 Training lead for Plastic surgery., Royal Free

Other Appointments and Affiliations

President of the Royal Society of Medicine (Plastic Surgery section) 2015-2016
Head of curriculum for Plastic surgery UK & Ireland 2011-
Head of Surgical simulation for plastic surgery UK 2015-
Academic member of Special Advisory Committee (SAC) for Plastic surgery UK &
Ireland
Member of Research & Education Committee Plastic surgery, Royal College of
Surgeon 2010-2015
Deputy Editor of Journal of Plastics Aesthetic & Reconstructive surgery 2010-2015
International Editor of Aesthetic Surgery Journal (American) 2012-
NIHR Grant reviewer
NICE new procedures reviewer
Plastic surgery member of the London Cancer Breast Cancer Board
Member of Department of Health review board of non-invasive aesthetic procedures
Member of Health Education England review board on Cosmetic surgery review
Hon secretary of British Association of Aesthetic Plastic Surgery (BAAPS).
Media representative of BAAPS, regularly on TV, radio, papers to discuss plastic
surgery issue relevant to public health
Board member of Healing Foundation Charity
Inspector of Oxford Deanery Plastic surgery programme
Co-director of Plastic surgery MSc programme UCL
MB examiner for UCL
External & Internal PhD/MD/MSc examiner
Royal Free Academic Collaborative instigator
Tutor on Master programme in oncoplastic surgery, University of East Anglia
Tutor on "Acamedics" UCL medical student programme
Tutor for UCLU surgical society shadowing scheme programme

Prizes, Awards and Other Honours

Dates, detail of prize, award or honour and awarding / electing body

East Grinstead Medical Trust PhD Fellowship, 1998

Best Poster Award UCL (Tissue Repair Open day), 2000

Joan Dawkins Millennium bursary, 2000

Peripheral Nerve Society travelling award, 2001

British Association of Plastic Surgery Travel Award, 2004

British Association of Plastic Surgery presentation bursary award, 2004

Ethicon Travel Bursary, 2006

Technology Strategy Board: Development of new generation biofunctionalised nerve conduits

Pharmidex Pharmaceutical Services Limited. 2010-11 £197,237

Best Poster Award, 5th Congress of the World Union of Wound Healing Societies, 2016

Oral Presentation for European Venous Prize, 17th Meeting of the European Venous Forum, 2016

Certificate of Merit for Excellent Abstract Presentation, Charing Cross International Symposium, 2016

PLASTA/ASiT Prize for Best Plastic Surgery Poster, ASiT Surgical Conference, 2016

Grants

PI

2016 Acely Research grant £208K

2016 UCL medical school teaching grant £17K

Co-PI

2012: PICTURE (Patient Information Combined for the Assessment of Specific Surgical Outcomes in Breast cancer), Seventh Framework Programme, European Commission 1/3/2013-1/3/2016 value €2,157,000 the PICTURE is part of European Virtual Physiological Human project. In this project we aim to provide objective tools, tailored to the individual patient, to assist decision making and predict the aesthetic outcome of breast conserving surgery. Keshtgar (PI)

Co-Investigator

2008: NHS Clinical Innovations and Service Development Grant value: £231,000,

2014 UCL / Covidien Impact PhD £65,345.50

2015 Acely (EPIGRAFT trial) £80,512

2015 Royal Free Charity £15K

2016 Wolfson foundation £3M

Royal Free Charity: Development of composite tissue for facial application £165,000 (2012-15); Tendon tissue engineering £107,000

2008 NHS Clinical Innovations and Service Development £231,000,
2012 Development of a novel nerve conduit to enhance nerve tissue engineering using nanocomposite materials and stem cells £9,800

Collaborator:

Diabetes UK, Dr Cheema, "Development of tissue engineered collagen seeds to aid healing of diabetic ulcers."

Invited Talks

In addition to a number of invited talks, I have been Conference/ course convenor:

International Body contouring surgery & live surgery 2008, Royal Free
Organisation of Private practice 2010
Masterclass in breast reconstruction 2015
Lymphatic surgery 2015
Pitfalls in Blepharoplasty 2016
Pitfalls in Rhinoplasty 2016
Post massive weight loss surgery symposium 2016
Cadaveric dissection multidisciplinary facia surgery course 2016
Non-invasive aesthetic procedures with Live demonstration course 2016

Invited talks:

Peripheral nerve injuries, Royal Society of Medicine, Jan 1999, "Research in Plastic Surgery".
Bioartificial nerve graft, Queen Mary's Westfield & Royal London Hospital Medical School, Feb 1999.
European Conference of Scientist and Plastic Surgeons, Maastricht, Holland, Oct 1999
Nanotechnology & nerve regeneration, European Plastic Surgery Research Council, Aug 2011, Hamburg
Chair of regeneration session, European Plastic Surgery Research Council, Aug 2011, Hamburg
"Body" conference, Royal Society of Medicine, Nov 2011
National Breast Reconstruction Nurse study 2014
British Geriatric society 2016
European Facial Surgery, 2016
French Aesthetic surgery society 2016
British Aesthetic surgery society 2016
Pink Ribbon breast cancer day, RSM 2016

Academic Supervision

Primary

MD, 2010 Bioengineering of nerve conduit
MSc 2013 Lymphatic vessels bioengineering
MSc 2015 skin cancer patient reported outcome
MD 2016 Augmented reality teaching aide

Secondary
MD 2013 breast implant bioengineering
PhD 2014 Evaluation of epidermal graft

Research Career Summary

Since finishing my PhD at UCL I have continued my strong interest in research, which I believe is the cornerstone of surgical improvement. I have continued my PhD theme in tissue engineering with development of bioabsorbable nerve conduit made with nanocomposite materials and functionalised with bioactive peptides and adipose drive stem cells, currently the conduit is at preclinical trial. I hope with grant and help of industry taking it to clinical trial. I am also working on the development of lymphatic drainage. This is to consider as unmet clinical need effecting a large number of cancer patients. The development is based on synthetic materials and endothelisation using autologous cells before implantation, this work is still at laboratory based and under development. I am also working on application of adipose drive stem cells in plastic surgery including breast filler with bioabsorbable materials for reconstructive breast surgery.

Additionally, solid clinical & patient based research is needed to apply research findings to patient setting, in this pursuit I have strong clinical trials track record:

MelmarT international multicentre randomised trial of excision of wider excision of melanoma. (collaboration with Sydney, Australia)

MRC Cell Based Tissue Engineered Laryngeal Implants (RegenVOX), (Collaboration with Prof Birchall, UCL)

A Multicenter Randomised Controlled Trial to Compare Epidermal Grafting with Split Skin Grafting for Wound Healing, protocol approved (PI, collaboration with Prof Richards, UCL)

Randomized Controlled Trial study of use of fat injection & PRP for diabetic wound, PI (multidisciplinary collaboration with podiatry & orthopaedic surgery)

Randomised Controlled Trial study of use of SVF fat extract in Alopecia, PI, industry sponsored, going through ethical approval

Randomised Controlled Trial study of SVF in Knee OA (Collaboration Prof Haddad, UCL)

I additional to these I have coordinated a number of smaller studies & audits in the clinical setting for my trainees, which have resulted in a number of national presentations & publications.

Teaching Career Summary

I am passionate about teaching & keen to encourage curiosity in my trainees & students, the old surgical axiom of see one, do one & teach one, still remains true & I have strived to do this throughout my training as well as my career as teacher. In addition, I have been asked to be part of teaching faculty of numerous national & international hands on training courses. Furthermore:

At undergraduate level, I have been given a teaching grant from UCL to trial augmented reality surgical teaching technology (first in K) which has begun and being evaluated. I am also active in I have been involved in UCLU surgical society shadowing scheme to promote surgical experience & career (which is on decline). Additionally, I have successfully placed UCL students in Acamedics scheme.

At postgraduate level, I am the co-director of UCL plastics surgery MSc & involved in training students. Furthermore, nationally, I am the head of curriculum for plastic surgery for UK as well as in charge of simulation, which is increasingly mandated as part of surgical teaching, for UK.

At Departmental & institutional level, I am head of training for one of the largest Plastics surgery departments in UK & responsible for ensuring teaching & timetable activities remain relevant & worthwhile. Due to my teaching & training track record we have been assigned as the “centre of excellence” for European teaching & training of Acelity medical devices company. This has meant rung master classes for experienced and training surgeons as well as nurses.

Administration

Obtaining a Masters in Business Administration (MBA) from the prestigious Warwick Business School, I have learnt the building blocks in strategic management & thinking. This has given me the necessary tools to juggle 3 major administrative tasks of being the clinical, academic & training leads for one of the largest & busiest plastic surgery units in UK.

I have to manage clinical budgets, predict activities & enable cost saving schemes, last year I helped to increase our income by 20% and department became the best performing in the division.

Publications

Smith, O. J., Edmondson, S. J., Bystrzonowski, N., Hachach-Haram, N., Kanapathy, M., Richards, T., & Mosahebi, A. (2016). The CelluTome epidermal graft-harvesting system: a patient-reported outcome measure and cost evaluation study.. *International wound journal*. doi:[10.1111/iwj.12644](https://doi.org/10.1111/iwj.12644)

Langridge, B., Hachach-Haram, N., Rahman, S., Mosahebi, A., & Hansen, E. (2016). The effects of changes in local guidelines on the provision of NHS funded cosmetic procedures: a single centre study. *BRITISH JOURNAL OF SURGERY*, 103, 176. Retrieved from http://gateway.webofknowledge.com/gateway/Gateway.cgi?GWVersion=2&SrcApp=PARTNER_APP&SrcAuth=LinksAMR&KeyUT=WOS:000383289600584&DestLinkType=FullRecord&DestApp=ALL_WOS&UsrCustomerID=f41074198c063036414efcbc916f8956

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- Kanapathy, M., Hachach-Haram, N., Bystrzonowski, N., Harding, K., Mosahebi, A., & Richards, T. (2016). Epidermal grafting versus split-thickness skin grafting for wound healing (EPIGRAFT): study protocol for a randomised controlled trial. *TRIALS*, 17, 6 pages. doi:[10.1186/s13063-016-1352-y](https://doi.org/10.1186/s13063-016-1352-y)
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- Mosahebi, A. (2015). Commentary on: The Fountain of Stem Cell-Based Youth? Online Portrayals of Anti-Aging Stem Cell Technologies. *AESTHETIC SURGERY JOURNAL*, 35(6), 737-738. doi:[10.1093/asi/siv014](https://doi.org/10.1093/asi/siv014)
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Retrieved from http://gateway.webofknowledge.com/gateway/Gateway.cgi?GWVersion=2&SrcApp=PARTNER_APP&SrcAuth=LinksAMR&KeyUT=WOS:000341086600063&DestLinkType=FullRecord&DestApp=ALL_WOS&UsrCustomerID=f41074198c063036414efcbc916f8956

Title: Tissue-engineered lymphatic graft for the treatment of lymphedema

Abstract: Abstract

Background

Lymphedema is a chronic debilitating condition and curative treatment is yet to be found. Tissue engineering approach, which combines cellular components, scaffold, and molecular signals hold great potential in the treatment of secondary lymphedema with the advent of lymphatic graft to reconstruct damaged collecting lymphatic vessel. This review highlights the ideal characteristics of lymphatic graft, the limitation and challenges faced, and the approaches in developing tissue-engineered lymphatic graft.

Methods

Literature on tissue engineering of lymphatic system and lymphatic tissue biology was reviewed.

Results

The prime challenge in the design and manufacturing of this graft is producing endothelialized conduit with intraluminal valves. Suitable scaffold material is needed to ensure stability and functionality of the construct. Endothelialization of the construct can be enhanced via biofunctionalization and nanotopography, which mimics extracellular matrix. Nanocomposite polymers with improved performance over existing biomaterials are likely to benefit the development of lymphatic graft.

Conclusions

With the in-depth understanding of tissue engineering, nanotechnology, and improved knowledge on the biology of lymphatic regeneration, the aspiration to develop successful lymphatic graft is well achievable.

Authors: Kanapathy M, Patel NM, Kalaskar D, Mosahebi A, Mehrara BJ, Seifalian AM

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Mosahebi, A., & Nadarajah, S. (2014). An implicit and adaptive nonlinear frequency domain approach for periodic viscous flows. *Journal of Computational Physics*, 278, 92-116. doi:[10.1016/j.jcp.2014.08.022](https://doi.org/10.1016/j.jcp.2014.08.022)

Mosahebi, A. (2013). Basic surgical techniques. In *Atlas of Male Genitourethral Surgery The Illustrated Guide*. John Wiley & Sons.

Mughal, M., Baker, R. J., Muneer, A., & Mosahebi, A. (2013). Reconstruction of perineal defects.. *Ann R Coll Surg Engl*, 95(8), 539-544. doi:[10.1308/racsann.2013.95.8.539](https://doi.org/10.1308/racsann.2013.95.8.539)

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- Malhotra, A., Chhaya, N., Nsiah-Sarbeng, P., & Mosahebi, A. (2013). CT-guided deep inferior epigastric perforator (DIEP) flap localization -- better for the patient, the surgeon, and the hospital.. *Clin Radiol*, 68(2), 131-138. doi:[10.1016/j.crad.2012.06.105](https://doi.org/10.1016/j.crad.2012.06.105)
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