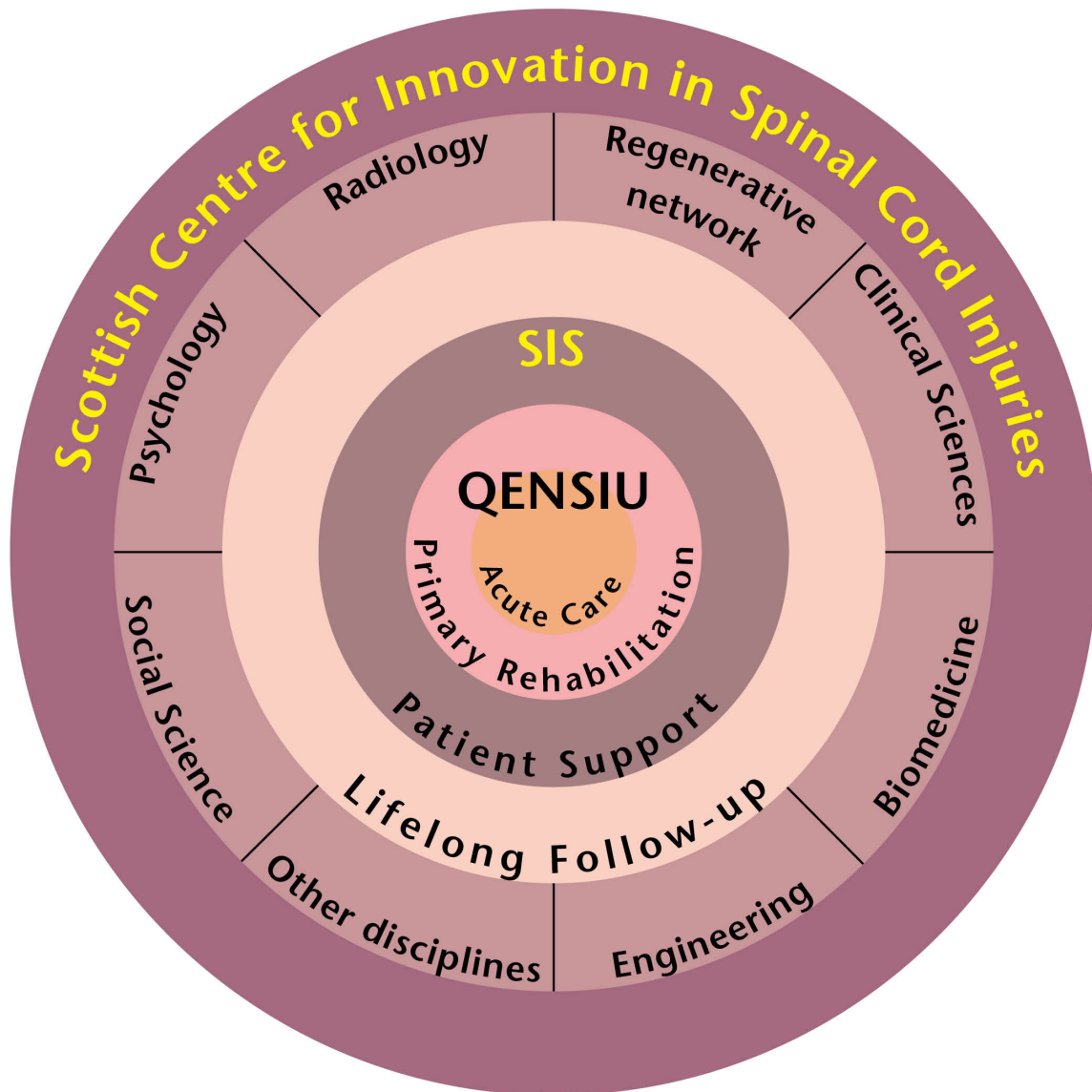


Queen Elizabeth National Spinal Injuries Unit for Scotland



Scottish Centre for Innovation in Spinal Cord Injury

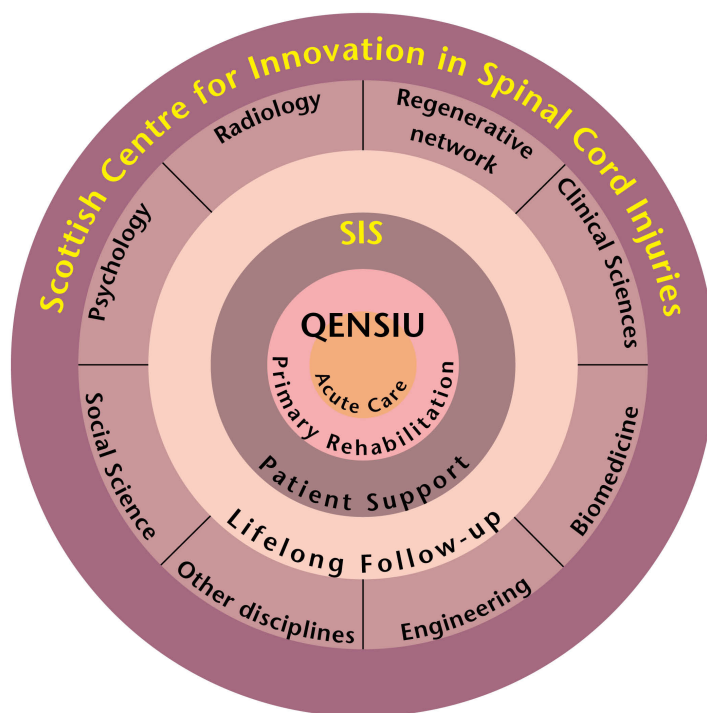
Cumulative Research Profile May 2015



Queen Elizabeth National Spinal Injuries Unit for Scotland: Research Profile 2015

Research in basic sciences, clinical treatment and prevention including translational approaches is a fundamental and embedded function of the spinal injuries unit. The ultimate aim is to act as a host and supporter of all scientists who can have a positive impact on the care of the traumatic spinal cord injured.

We have set up **SCI²**. The **S**cottish **C**entre for **I**nnovation in **S**pinal **C**ord **I**njury as an umbrella group to support translational research in a clinical setting. The unit is supported by Glasgow University, whose Centre for Rehabilitation Engineering is based in the SRIF and GRPE funded Research Mezzanine.



It is envisaged that the unit acts as an embedded research micro site within the NHS to promote research and to provide access and stimulation for clinicians, patients and researchers to work together. The group conducts research in all areas of spinal cord injury from clinical review and outcome through understanding and promoting neural repair and regeneration to active intervention assessment and treatment strategies all based

on basic science. The research is patient orientated and extends from harvesting and growing olfactory stem cells to robotic walking and brain computer interfacing. Psychological studies and the impact of disability are equally important. Spinal Injuries Scotland is a collaborative partner within Scotland and the unit has links with ISRT, SIA, Aspire and Back Up.

Scottish Centre for Innovation in Spinal Cord Injury

**Glasgow University – NHS, GGC
– NHS Scotland**

Queen Elizabeth National Spinal Injury Unit for Scotland



GU Centre of Rehabilitation Engineering SU Dept of Bioengineering
HWU SU Psychology Dept GU Cellular Neuroscience
Glasgow School of Art, School of Design

Current Areas of Interest

BCI - FES- Control Systems - WBV – Lokomat- Erigo—pQCT - Osteoporosis-
Primary Intervention – Psychology - OEC Stem Cell

Team Leaders

Professor Manuel Salmerez-Sanchez (GU) Professor Bernie Conway(SU)
Professor Sue Barnett(GU)
John Riddell(GU) Professor Alistair Macdonald(GSA) Adele Dickson (HW)
Mariel Purcell (GGHB)

Participants

NHS, GGC Alan McLean Mathew Fraser Mariel Purcell John Hasler Leslie Wallace
David Allan

GU Henrik Gollee, Aleksandra.Vuckovic
SU Sylvie Coupaud Helen Berry Euan McCaughey

Scaffolds FES Plasticity Spinal Stimulation Sensors
Stem Cell Implantation
Multi Component Therapy Neural Protection- Neural Repair, Neural Plasticity
Repetitive Stimulation and Training

Aberdeen, Edinburgh, EMSCI, Toledo, Balgrist, Perth

Staffing February 2015

National Health Service

M.A. Fraser FRCS, A. N McLean FRCP, M. Purcell MRCP

Dr M Jigajinni, Jon Hasler, Leslie Wallace, Claire Lincoln

Glasgow University

CRE: Professor Manuel Salmeron-Sanchez, Dr Henrik Gollee, Dr Aleksandra Vuckovic, Muhammad Abul Hasan, Bethel Osuagwu, Lynn Meng

Dr E H Coulter

Professor Sue Barnett, Dr John Riddell

Strathclyde University

Professor Bernie Conway, Dr Sylvie Coupaud, Dr Helen Berry, Dr Euan McCaughey, Dr Heba Lakany, Danieal Kahani

Stirling University

Professor Ronan O'Carroll

Heriott Watt University

Dr Adele Dickson

Glasgow School of Art

Professor A.S.Macdonald

Gemma Wheeler

Papers and Authorship SCI ²

Oct 1999 – Feb 2015

Year	Papers	NHS	NHS G U	NHS S U	NHS GSA	NHS Stir U	GU	SU	GSA	NHS SU GU	GU SU	Other
2015	4	1	1	1	0	0	1	0	0	0	0	0
2014	24	1	5	3	1	1	4	2	0	4	3	0
2013	11	1	4	2	0	0	1	0	1	0	0	2
2012	4	0	2	0	0	1	1	0	0	0	0	0
2011	10	3	2	2	0	0	1	0	0	1	0	1
2010	12	2	3	1	0	2	4	0	0	0	0	0
2009	14	1	7	0	0	0	4	2	0	0	0	0
2008	19	2	6	0	0	1	9	0	0	0	0	1
2007	10	2	4	1	0	0	2	1	0	0	0	0
2006	6	2	2	1	0	0	0	1	0	0	0	0
2005	5	2	1	0	0	0	1	1	0	0	0	0
2004	9	3	1	0	0	0	3	1	0	0	0	1
2003	4	2	1	0	0	0	1	0	0	0	0	0
2002	9	5	1	0	0	0	2	1	0	0	0	0
2001	6	1	1	0	0	0	3	1	0	0	0	0
2000	2	0	0	0	0	0	1	1	0	0	0	0

Only papers with direct involvement with mezzanine or SCI

NHS - National Health Service, GU - Glasgow University, SU -Strathclyde University, GSA – Glasgow School of Art, Stir U - Stirling University

A detailed explanation of **SCI²** is available @ SCISCI.ac.uk

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Changing demographics of spinal cord injury over a 20 year period: A longitudinal population based study in Scotland (In Review)

McCaughey E, Allan D B, Purcell M, Barnett S.
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