

# **Gait analysis at RNOH**

With over 10 years' experience, the Royal National Orthopaedic Hospital (RNOH) offers an expert gait analysis service. We are now introducing a new, state-of-the-art Motek GRAIL system to revolutionise the way we undertake gait assessment.

### Who are we?

The Motor Learning Laboratory (MLL) at RNOH offers an excellent gait analysis service to clinicians for pre-operative planning, pre and post-operative outcome evaluation and state-of-the-art rehabilitation. The MLL is perfectly positioned to support a wide variety of clinical research trials.



With the new state-of-the-art Motek GRAIL system and an expert team we can provide:

- Personal, professional and efficient gait analysis services
- Analysis of normal, steady state walking in a treadmill-based, virtual environment
- Ground reaction forces measured at every stride
- A 10 camera motion capture system monitors all available kinematics
- Provision of kinematic scores, power production and step analysis
- Bespoke gait analysis and measurements tailored to your specific research questions
  - Access to our ever-increasing gait database for analysis and comparison

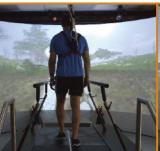




## **Our services**

This new improved technology builds on our experience to develop key services:

- Enhanced, rapid and detailed gait assessment providing in-depth analysis to inform complex surgical and conservative patient management
- Bespoke and objective assessment of clinically relevant gait outcomes compared against a 'normal' database to answer all your clinical and research questions
- Safe and high quality functional gait rehabilitation via a 2m long treadmill immersed in a virtual environment through a floor to ceiling 180° cinema style screen, recreating 'reallife' walking
- Guidance and support with gait based research projects and design







# **Contacting us**

To learn more about the services of the RNOH Motor Learning Laboratory, arrange a visit or discuss how the MLL could support your clinical service and research developments, please contact us.

### **Rachel Dalton**

Head of Therapies (Clinical Director) RNOH

**Telephone:** 0208 385 3028

### **Email:**

rachel.dalton@rnoh.nhs.uk

### Website:

www.rhon.nhs.uk/clinicalservices/rehabilitation-andtherapy/motor-learninglaboratory

"I wish I could have come here every day. I feel like I have improved lots since last time" MDS 25.06.2014 If you have any comments about this leaflet or would like it translated into another language/large print, please contact the Clinical Governance Department on 020 8909 5439/5717.

Royal National Orthopaedic Hospital NHS Trust Brockley Hill Stanmore Middlesex HA7 4LP

Switchboard: 020 8954 2300

www.rnoh.nhs.uk

Twitter: @RNOHnhs

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"Outstanding.
Much better than
the other labs
we've visited"
Mother of patient,
18/06/2014