Clinical Movement Analysis Society –UK and Ireland

Statement of Purpose Form

Name of Laboratory	Gait Analysis Laboratory, Belfast
Address	Musgrave Park Hospital Stockman's Lane Belfast BT9 7JB
Telephone number	02890638745
Email	DL-Gait-Analysis-Lab@belfasttrust.hscni.net
Website	

Please provide a brief description of your laboratory – history, location, etc. Also describe main activities – clinical/teaching/research (maximum 150 words).

The Gait Analysis Laboratory at Musgrave Park Hospital in Belfast was installed in 1992, funded by the hospital charity MITRE. The lab is involved in the following activities.

-Clinical

Patients are referred by the Orthopaedic Service for conditions such as:

•Cerebral Palsy (CP)
•Myelomeningocele (Spina Bifida)
•Charcot Marie Tooth (CMT)
•Lower limb deformities
•Idiopathic toe-walkers (ITW)
•Congenital Talipes Equinovarus (CTEV)
•Movement disorders

-Research

The laboratory has been carrying out research since its conception in 1992. From developing and designing technical tools and software, to the study of treatment efficacy, classification of walking patterns, and patient function and participation.

-Teaching

The laboratory regularly provides training to undergraduate physiotherapy and engineering students on placement within the Trust. Several local conferences have also been organised by staff members, in the areas of CP gait and spasticity.

Host Institution

NHS Trust	☒
University/Academic	☐
Private Company	☐
Other...(please specify)	

Named Staff

	Name	Email	Phone
Main contact	Brona McDowell	brona.mcdowell@belfasttrust.hscni.net	02890638745
Clinical Lead	Brona McDowell	brona.mcdowell@belfasttrust.hscni.net	02890638745
Technical Lead	Martin Molloy	martin.molloy@belfasttrust.hscni.net	02890638745

Staffing

	Employed by laboratory	***Available for consultation***
Orthopaedic Surgeon	☒	☒
Rehabilitation Consultant	☐	☒
Paediatrician	☐	☐
Neurologist	☐	☒
Physiotherapist	☒	☒
Sports Scientist	☐	☐
Bioengineer (Clin Sci)	☒	☒
Clinical Technologist	☐	☒
Orthotist	☐	☒
Prosthetist	☐	☒
Podiatrist	☐	☐
Others (please specify:)	☐ ☐	☐ ☐

Clinical Expertise

- indicate a major interest in an area, minor interest or if you would not accept a referral (excluded)

	Adults	***Children***
Cerebral Palsy	Minor	Major
Neuromuscular disorders	Minor	Major
The Foot	Minor	Major
Orthopaedics	Minor	Major
Spinal injuries	Minor	Minor
Stroke	Minor	Minor
Orthotics	Minor	Major
Orthotic tuning	Excluded	Excluded
Prosthetics	Minor	Minor
Sports	Excluded	Excluded
Others (please specify:)		

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Testing Available

	Level of Reporting
Clinical exam	Treatment recommendations
Orthogonal video filming	Treatment recommendations
Force plate	Treatment recommendations
Video vector technology	...
3D movement analysis	Treatment recommendations
Detailed foot movement analysis	Treatment recommendations
Electromyography	...
Plantar pressure measurement - barefoot	Treatment recommendations
Plantar pressure measurement – in shoe	...
Energy cost measurement (oxygen/HR)	...
Balance assessment	...
Upper limb assessment	...
Other (please specify) Functional walking tests: 6 minute walk test, 1 min fast walk test, modified Timed Up and Go (TUG) Additional muscle tests (myelomeningocele) Additional activity tests (balance, co-ordination and core strength)	 Descriptive interpretation Descriptive interpretation Descriptive interpretation ...

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