

Chartered Society of Physiotherapy - SNOMED CT subsets

This describes CSP work to develop SNOMED CT subsets for use in the electronic health record

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1 Introduction

1.1 Purpose

The purpose of this document is to provide supporting information for those who are downloading SNOMED CT subsets, produced and are owned by the Chartered Society of Physiotherapy (CSP), from the Health and Social Care Information Centre (HSCIC), via the Data Dictionary for Care (DD4C).

This document provides background information on how the CSP is developing the SNOMED CT subsets, and gives detail on how feedback can be provided so that the CSP can ensure continuous improvement of the subsets as they become used more widely - improving both quality and content.

1.2 Background

SNOMED CT is the world's most comprehensive terminology for electronic health information and contributes to the improvement of patient care by underpinning the development of the electronic health record (EHR). The use of SNOMED CT terminology within the EHR enables more accurate recording of clinical information. There are many benefits to the use of this single language, more accurate clinical information is recorded allowing for more meaningful information to be shared, retrieved, analysed and decision-making and reporting are more effectively supported.

The CSP has a long track record of being involved in national health informatics work, across the UK, to ensure that the requirements of physiotherapists, in relation to record keeping standards, can be met as the NHS, private sector and other related agencies move to use the EHR. The CSP was one of the clinical groups involved in the development of Clinical Terms Version 3 (CTV3) in the UK, which was the predecessor of SNOMED CT, and has maintained awareness through the work of its health informatics group, and various national groups, including the National Allied Health Professional Informatics Strategy Team (NAPHIST).

The CSP recognises that consistency in the use of language, and how language is structured in the patient record, is essential for the delivery of quality care to the individual, and that there is a need to ensure that secondary purposes (e.g. research, benchmarking) can also be derived from this information - thus avoiding duplication and contributing to improvements in safety and care.

The CSP made a strategic decision in 2014 to explore the development of SNOMED CT subsets, for use in SNOMED CT enabled systems, to support its members across the UK where national strategies are mandating the use of SNOMED CT as the terminology for EHRs. The CSP had previously worked with NHS Connecting for Health in England to define a SNOMED CT subset for GP referral to physiotherapy (problems) using the then Choose and Book system. As a consequence of that work, a methodology was developed including:

- Collating data from sources already working with such data,
- Developing a framework for populating the subset
- Review and validation by physiotherapists

This previous experience and lessons learned has been invaluable to moving the current work forward.

2 Method for development of SNOMED CT subsets by CSP

The following were the steps taken to develop the April 2016 release of CSP owned SNOMED CT subsets. The steps will form the basis for an ongoing programme of work to develop further SNOMED CT subsets and maintain all releases:

1. Identification of two initial use cases to focus the subset development - *Post Total Hip Replacement* and *Low Back Pain* with the content focus on assessment and intervention information.
2. Out-reach through CSP professional networks across the UK for relevant data
3. Collation of data using the framework provided by Problem Orientated Medical record (POMR) format
4. Identification of corresponding SNOMED CT descriptions
5. Review by Experts identified during the out-reach phase using a consensus workshop
6. Updating of SNOMED CT lists
7. Expert review (2nd) virtually
8. Updates and final QA
9. Submission of CSP owned subsets to Health and Social Care Information Centre for publication by the UK Terminology Centre on the Data Dictionary for Care (DD4C) site.

3 Approach to subset scope, purpose and size

Subsets act as the extensibility mechanism in SNOMED CT, allowing developers and users to customize SNOMED CT content to meet specific use cases: this means SNOMED CT subsets can be developed and further developed over time to meet the needs of that time.

3.1 Subsets as *building blocks*

What became evident during the consultation phase of the development work was that there were many areas where the same type of clinical information was recorded by clinicians working with different clinical conditions, e.g. mobility and gait were potentially of interest to those working with low back pain and post hip fracture replacement. In reviewing the feedback and discussions at a workshop with the clinical experts, a key decision was taken to work towards developing SNOMED CT subsets that could be used as *building blocks*, rather than developing condition specific subsets which would create a barrier to widespread engagement and use of the subset.

The concept of SNOMED CT subsets as *building blocks* enables:

- Smaller subsets with tight definitions (adding specificity will improve accuracy of recording and consistency of information, contributing to quality of care)
- The User to have smaller focused SNOMED CT subsets to populate their content lists in their EHRs (improving usability at the local level)
- A smaller discrete set that can be added to locally, or content removed if not appropriate - all managed in a way that supports interoperability and meets the need of a local context.
- The ability to identify building blocks for use in multiple specialty areas of care (improving the CSP's efficiency in developing subsets for use in multiple clinical areas concurrently).

3.2 Subset content status and size

The CSP views the content of the published subsets as initial sets which will be further developed: this development will be based on feedback from physiotherapists who are able to share their experience of implementation and use of the subsets. The current subset content is the result of consensus of the experts engaged during the development process.

3.3 Use by other professions

The subsets are built on physiotherapy requirements and scope. However, with the implementation of EHRs and wider sharing of information, it is anticipated that other professions may find some of the subsets appropriate for their use - indeed the CSP would welcome other professions use and feedback too.

4 Schedule of CSP subset development

The schedule of subset development by the CSP has been defined by the initial use case definitions. Consequently, the following subsets will be released in April 2016:

- Deformity of spine findings
- Joint movement findings
- Mobility findings
- Musculoskeletal reflex findings
- Pain aggravating factors
- Pain easing factors
- Posture findings
- Spine movement findings
- Transfer ability findings
- Wound integrity findings

The CSP will be continuing a program of subset development, details of which will be available on the CSP website www.csp.org.uk/snomed-ct. These SNOMED CT subsets will be published in the HSCIC Data Dictionary for Care <https://dd4c.hscic.gov.uk/dd4c/> and this document will be updated accordingly.

5 Format of the CSP subsets

The CSP subsets will be released in a technical format by HSCIC to enable systems developers to incorporate them in their EHR systems. For the convenience of clinicians who want to review the clinical content, they are also included in the appendices of this document.

The representation of the CSP subsets on the DD4C site is in, 'flat' format, i.e., it is a list of all of the descriptions within the subset in alphabetical order. There is no structure to the listing, therefore to aid visual inspection of the content of these subsets they are included in a more 'user friendly' format in the appendices of this paper.

The CSP aims to make the subsets available on their website in human-readable format, i.e., so that physiotherapists, and other clinical users, can review the content and then work with systems developers to agree which subset content is appropriate for use locally, or what might need to be edited.

6 Implementation of subsets

CSP members and other clinical users are encouraged to consider the use of the subsets within the context of their own clinical settings - for use in the EHR.

6.1 Implementation overview

The extent and scope of ways in which the CSP SNOMED CT subsets can be implemented will depend on local requirements and the systems used. Vendors working with local organisations are encouraged to contact CSP members locally to discuss specific implementation scenarios. Over time, the CSP would hope to share examples of good practice.

6.2 Technical guidance for implementation of CSP subsets

Background of the creation and maintenance of SNOMED CT subsets can be found in Section 7.9 of the *SNOMED CT Technical Implementation Guide (IHTSDO, 2014)*, and Section 7.6.3 discusses the application of subsets http://ihtsdo.org/fileadmin/user_upload/doc/en_gb/tig.html

6.3 Implementation levels

Section 3.3 of the *SNOMED CT Technical Implementation Guide* describes three implementation levels for some aspects of SNOMED CT deployment. The three levels represent incremental capabilities for implementation broken down into specific dimensions including scope of use, record structure, expression storage, data entry, data retrieval and communication. Guidance provided in this section of the *Technical Implementation Guide* is also applicable to implementation of the CSP SNOMED CT subsets.

It must be noted that the CSP subsets do not inherently contain structures or content to support the implementation of post-coordinated expressions, as required for the highest implementation level within some dimensions. The decision to implement post-coordinated expressions must be made at the local level, with implementers choosing to allow users to create post-coordinated expressions in conjunction with use of the CSP subsets.

7 Benefits of CSP SNOMED CT subsets

The CSP subsets utilise the power of SNOMED CT as a global healthcare terminology, while restricting the clinical terms available for specific clinical areas of information. This increases the usefulness of SNOMED CT for clinicians because searches can be targeted to the SNOMED CT

concepts that are used most often, and, if implemented properly, users should be able to search and select a SNOMED CT concept quickly and easily.

8 Feedback on CSP subsets

The CSP welcomes feedback on any of its SNOMED CT subsets based on review and usage so that the subsets can remain up to date and implementable. It also welcomes contact from those who might wish to participate in evaluation and review of SNOMED CT subsets in development. Please contact Sue Hayward-Giles, Assistant Director, Practice and Development, CSP, via professionaladvicese@csp.org.uk

9 Licensing of SNOMED CT subsets

The UK has a national license for the use of SNOMED CT. Users are required to have an Affiliate license so that they can download SNOMED CT and any derivatives including subsets - this would normally be arranged locally for an organisation. Please contact HSCIC for further information - <http://www.hscic.gov.uk/data/uktc/snomed/licensing>

Appendix A - Deformity of spine findings

A list of the common deformities resulting from abnormal curvature of the spine, at all levels. These may be defined by a combination of visual inspection and radiographic findings.

PREFERRED_TERM	SNOMED CT ID
Flattened lordosis	249711007
Kyphoscoliosis deformity of spine	405773007
Kyphoscoliosis of cervical spine	298394007
Kyphoscoliosis of thoracic spine	298495009
Cervical kyphosis	298393001
Kyphosis deformity of spine	414564002
Kyphosis of thoracic spine	298493002
Lordoscoliosis	111268000
Lordosis absent	249712000
Lordosis accentuated	249710008
Lordosis deformity of spine	61960001
Lordosis reversed	249713005
Movement corrects spinal deformity	249721004
Movement does not correct spinal deformity	249722006
Movement does not reduce spinal deformity	249723001
Movement reduces spinal deformity	249720003
Pelvic tilt	418617002
Rotational deformity of thoracic spine	249716002
Scoliosis deformity of spine	298382003
Scoliosis of cervical spine	298392006
Scoliosis of lumbar spine	298591003
Scoliosis of thoracic spine	298494008
Spinal curvature convex to the left	423430005
Spinal curvature convex to the right	424774003

Appendix B - Joint movement findings

A list of active and passive movements of major joints (excluding the spine) where the findings are described as normal, increased, decreased or none.

PREFERRED_TERM	SNOMED CT ID
Ankle joint hypermobility	298198000
Decreased active range of ankle extension	299437005
Decreased active range of ankle flexion	299426009
Decreased active range of elbow extension	298894001
Decreased active range of elbow flexion	298883000
Decreased active range of elbow pronation	298916004
Decreased active range of elbow supination	298905006
Decreased active range of finger abduction	299089008
Decreased active range of finger adduction	299100006
Decreased active range of finger extension	299078001
Decreased active range of finger flexion	299067009
Decreased active range of hip abduction	299265005
Decreased active range of hip adduction	299277000
Decreased active range of hip extension	299254000
Decreased active range of hip external rotation	299299008
Decreased active range of hip flexion	299243005
Decreased active range of hip internal rotation	299288006
Decreased active range of knee extension	299348004
Decreased active range of knee flexion	299337006
Decreased active range of shoulder abduction	298801001
Decreased active range of shoulder adduction	298812001
Decreased active range of shoulder circumduction	298846000
Decreased active range of shoulder extension	298789009
Decreased active range of shoulder external rotation	298835003
Decreased active range of shoulder flexion	298778002
Decreased active range of shoulder horizontal extension	304206008
Decreased active range of shoulder horizontal flexion	304195006
Decreased active range of shoulder internal rotation	298823002
Decreased active range of toe abduction	299609006
Decreased active range of toe adduction	299620006

Decreased active range of toe extension	299598004
Decreased active range of toe flexion	299587000
Decreased active range of wrist abduction	298973000
Decreased active range of wrist adduction	298984007
Decreased active range of wrist extension	298962007
Decreased active range of wrist flexion	298951007
Decreased active range of wrist pronation	299006003
Decreased active range of wrist supination	298995001
Decreased passive range of ankle extension	299442002
Decreased passive range of ankle flexion	299431006
Decreased passive range of elbow extension	298899006
Decreased passive range of elbow flexion	298888009
Decreased passive range of elbow pronation	298921001
Decreased passive range of elbow supination	298910005
Decreased passive range of finger abduction	299094008
Decreased passive range of finger adduction	299105001
Decreased passive range of finger extension	299083009
Decreased passive range of finger flexion	299072000
Decreased passive range of hip abduction	299270003
Decreased passive range of hip adduction	299282007
Decreased passive range of hip extension	299259005
Decreased passive range of hip external rotation	299304009
Decreased passive range of hip flexion	299248001
Decreased passive range of hip internal rotation	299293009
Decreased passive range of knee extension	299353009
Decreased passive range of knee external rotation	299365008
Decreased passive range of knee flexion	299342003
Decreased passive range of knee internal rotation	299359008
Decreased passive range of shoulder abduction	298806006
Decreased passive range of shoulder adduction	298817007
Decreased passive range of shoulder circumduction	298851006

Decreased passive range of shoulder extension	298794009
Decreased passive range of shoulder external rotation	298840006
Decreased passive range of shoulder flexion	298783005
Decreased passive range of shoulder horizontal extension	304210006
Decreased passive range of shoulder horizontal flexion	304199000
Decreased passive range of shoulder internal rotation	298829003
Decreased passive range of toe abduction	299614005
Decreased passive range of toe adduction	299625001
Decreased passive range of toe extension	299603007
Decreased passive range of toe flexion	299592003
Decreased passive range of wrist abduction	298978009
Decreased passive range of wrist adduction	298989002
Decreased passive range of wrist extension	298967001
Decreased passive range of wrist flexion	298956002
Decreased passive range of wrist pronation	299012008
Decreased passive range of wrist supination	299000009
Decreased range of ankle movement	304326005
Decreased range of elbow movement	304301001
Decreased range of finger movement	304309004
Decreased range of shoulder movement	304297005
Decreased range of toe movement	304339009
Decreased range of wrist movement	304305005
Elbow joint hypermobility	298189003
Finger joint hypermobility	298193009
Hip joint hypermobility	298196001
Increased active range of ankle extension	299436001
Increased active range of elbow extension	298893007
Increased active range of elbow flexion	298882005
Increased active range of elbow pronation	298915000
Increased active range of elbow supination	298904005
Increased active range of finger abduction	299088000

Increased active range of finger adduction	299099003
Increased active range of finger extension	299077006
Increased active range of finger flexion	299066000
Increased active range of hip abduction	299264009
Increased active range of hip adduction	299275008
Increased active range of hip extension	299253006
Increased active range of hip external rotation	299298000
Increased active range of hip flexion	299242000
Increased active range of hip internal rotation	299287001
Increased active range of knee extension	299347009
Increased active range of knee flexion	299336002
Increased active range of shoulder abduction	298800000
Increased active range of shoulder adduction	298811008
Increased active range of shoulder circumduction	298845001
Increased active range of shoulder extension	298788001
Increased active range of shoulder external rotation	298834004
Increased active range of shoulder flexion	298777007
Increased active range of shoulder horizontal extension	304205007
Increased active range of shoulder horizontal flexion	304194005
Increased active range of shoulder internal rotation	298822007
Increased active range of toe abduction	299608003
Increased active range of toe adduction	299619000
Increased active range of toe extension	299597009
Increased active range of toe flexion	299586009
Increased active range of wrist abduction	298972005
Increased active range of wrist adduction	298983001
Increased active range of wrist extension	298961000
Increased active range of wrist flexion	298950008
Increased active range of wrist pronation	299005004
Increased active range of wrist supination	298994002
Increased passive range of ankle extension	299441009

Increased passive range of ankle flexion	299430007
Increased passive range of elbow extension	298898003
Increased passive range of elbow flexion	298887004
Increased passive range of elbow pronation	298920000
Increased passive range of elbow supination	298909000
Increased passive range of finger abduction	299093002
Increased passive range of finger adduction	299104002
Increased passive range of finger extension	299082004
Increased passive range of finger flexion	299071007
Increased passive range of hip abduction	299269004
Increased passive range of hip adduction	299281000
Increased passive range of hip extension	299258002
Increased passive range of hip external rotation	299303003
Increased passive range of hip flexion	299247006
Increased passive range of hip internal rotation	299292004
Increased passive range of knee extension	299352004
Increased passive range of knee external rotation	299364007
Increased passive range of knee flexion	299341005
Increased passive range of knee internal rotation	299358000
Increased passive range of shoulder abduction	298805005
Increased passive range of shoulder adduction	298816003
Increased passive range of shoulder circumduction	298850007
Increased passive range of shoulder extension	298793003
Increased passive range of shoulder external rotation	298839009
Increased passive range of shoulder flexion	298782000
Increased passive range of shoulder horizontal extension	304209001
Increased passive range of shoulder horizontal flexion	304198008
Increased passive range of shoulder internal rotation	298828006
Increased passive range of toe abduction	299613004
Increased passive range of toe adduction	299624002
Increased passive range of toe extension	299602002

Increased passive range of toe flexion	299591005
Increased passive range of wrist abduction	298977004
Increased passive range of wrist adduction	298988005
Increased passive range of wrist extension	298966005
Increased passive range of wrist flexion	298955003
Increased passive range of wrist pronation	299011001
Increased passive range of wrist supination	298999007
Increased range of ankle movement	304324008
Increased range of elbow movement	304300000
Increased range of finger movement	304308007
Increased range of shoulder movement	304296001
Increased range of toe movement	304338001
Increased range of wrist movement	304304009
Knee joint hypermobility	298197005
No active range of ankle extension	299438000
No active range of ankle flexion	299427000
No active range of elbow extension	298895000
No active range of elbow flexion	298884006
No active range of elbow pronation	298917008
No active range of elbow supination	298906007
No active range of finger abduction	299090004
No active range of finger adduction	299101005
No active range of finger extension	299079009
No active range of finger flexion	299068004
No active range of hip abduction	299266006
No active range of hip adduction	299278005
No active range of hip extension	299255004
No active range of hip external rotation	299300000
No active range of hip flexion	299244004
No active range of hip internal rotation	299289003
No active range of knee extension	299349007

No active range of knee flexion	299338001
No active range of shoulder abduction	298802008
No active range of shoulder adduction	298813006
No active range of shoulder circumduction	298847009
No active range of shoulder extension	298790000
No active range of shoulder external rotation	298836002
No active range of shoulder flexion	298779005
No active range of shoulder horizontal extension	304207004
No active range of shoulder horizontal flexion	304196007
No active range of shoulder internal rotation	298824008
No active range of toe abduction	299610001
No active range of toe adduction	299621005
No active range of toe extension	299599007
No active range of toe flexion	299588005
No active range of wrist abduction	298974006
No active range of wrist adduction	298985008
No active range of wrist extension	298963002
No active range of wrist flexion	298952000
No active range of wrist pronation	299007007
No active range of wrist supination	298996000
No ankle movement	304327001
No finger movement	304310009
No passive range of ankle extension	299443007
No passive range of ankle flexion	299432004
No passive range of elbow extension	298900001
No passive range of elbow flexion	298889001
No passive range of elbow pronation	298922008
No passive range of elbow supination	298911009
No passive range of finger abduction	299095009
No passive range of finger adduction	299106000
No passive range of finger extension	299084003

No passive range of finger flexion	299073005
No passive range of hip abduction	299271004
No passive range of hip adduction	299283002
No passive range of hip extension	299260000
No passive range of hip external rotation	299305005
No passive range of hip flexion	299249009
No passive range of hip internal rotation	299294003
No passive range of knee extension	299354003
No passive range of knee external rotation	299366009
No passive range of knee flexion	299343008
No passive range of knee internal rotation	299360003
No passive range of shoulder abduction	298807002
No passive range of shoulder adduction	298818002
No passive range of shoulder circumduction	298852004
No passive range of shoulder extension	298795005
No passive range of shoulder external rotation	298841005
No passive range of shoulder flexion	298784004
No passive range of shoulder horizontal extension	304211005
No passive range of shoulder horizontal flexion	304200002
No passive range of shoulder internal rotation	298830008
No passive range of toe abduction	299615006
No passive range of toe adduction	299627009
No passive range of toe extension	299604001
No passive range of toe flexion	299593008
No passive range of wrist abduction	298979001
No passive range of wrist adduction	298990006
No passive range of wrist extension	298968006
No passive range of wrist flexion	298957006
No passive range of wrist pronation	299013003
No passive range of wrist supination	299001008
No shoulder movement	304298000

No toe movement	304340006
No wrist movement	304306006
Normal active range of ankle extension	299435002
Normal active range of ankle flexion	299423001
Normal active range of elbow extension	298892002
Normal active range of elbow flexion	298881003
Normal active range of elbow pronation	298914001
Normal active range of elbow supination	298903004
Normal active range of finger abduction	299087005
Normal active range of finger adduction	299098006
Normal active range of finger extension	299076002
Normal active range of finger flexion	299065001
Normal active range of hip abduction	299263003
Normal active range of hip adduction	299274007
Normal active range of hip extension	299252001
Normal active range of hip external rotation	299297005
Normal active range of hip flexion	299241007
Normal active range of hip internal rotation	299286005
Normal active range of knee extension	299346000
Normal active range of knee flexion	299335003
Normal active range of shoulder abduction	298798007
Normal active range of shoulder adduction	298810009
Normal active range of shoulder circumduction	298844002
Normal active range of shoulder extension	298787006
Normal active range of shoulder external rotation	298833005
Normal active range of shoulder flexion	298776003
Normal active range of shoulder horizontal extension	304204006
Normal active range of shoulder horizontal flexion	304193004
Normal active range of shoulder internal rotation	298821000
Normal active range of toe abduction	299607008
Normal active range of toe adduction	299618008

Normal active range of toe extension	299596000
Normal active range of toe flexion	299585008
Normal active range of wrist abduction	298971003
Normal active range of wrist adduction	298982006
Normal active range of wrist extension	298960004
Normal active range of wrist flexion	298949008
Normal active range of wrist pronation	299004000
Normal active range of wrist supination	298993008
Normal passive range of ankle extension	299440005
Normal passive range of ankle flexion	299429002
Normal passive range of elbow extension	298897008
Normal passive range of elbow flexion	298886008
Normal passive range of elbow pronation	298919006
Normal passive range of elbow supination	298908008
Normal passive range of finger abduction	299092007
Normal passive range of finger adduction	299103008
Normal passive range of finger extension	299081006
Normal passive range of finger flexion	299070008
Normal passive range of hip abduction	299268007
Normal passive range of hip adduction	299280004
Normal passive range of hip extension	299257007
Normal passive range of hip external rotation	299302008
Normal passive range of hip flexion	299246002
Normal passive range of hip internal rotation	299291006
Normal passive range of knee extension	299351006
Normal passive range of knee external rotation	299363001
Normal passive range of knee flexion	299340006
Normal passive range of knee internal rotation	299357005
Normal passive range of shoulder abduction	298804009
Normal passive range of shoulder adduction	298815004
Normal passive range of shoulder circumduction	298849007

Normal passive range of shoulder extension	298792008
Normal passive range of shoulder external rotation	298838001
Normal passive range of shoulder flexion	298781007
Normal passive range of shoulder horizontal extension	304208009
Normal passive range of shoulder horizontal flexion	304197003
Normal passive range of shoulder internal rotation	298827001
Normal passive range of shoulder movement	921281000000105
Normal passive range of toe abduction	299612009
Normal passive range of toe adduction	299623008
Normal passive range of toe extension	299601009
Normal passive range of toe flexion	299590006
Normal passive range of wrist abduction	298976008
Normal passive range of wrist adduction	298987000
Normal passive range of wrist extension	298965009
Normal passive range of wrist flexion	298954004
Normal passive range of wrist pronation	299009005
Normal passive range of wrist supination	298998004
Normal range of ankle movement	304323002
Normal range of elbow movement	304299008
Normal range of finger movement	304307002
Normal range of shoulder movement	304295002
Normal range of toe movement	304337006
Normal range of wrist movement	304303003
Shoulder joint hypermobility	298188006
Wrist joint hypermobility	298190007

Appendix C - Mobility findings

A list of descriptions explaining an individual's personal physical movement, between two spaces, that achieves participation and a degree of independence.

PREFERRED_TERM	SNOMED CT ID
Able to arise from chair without assistance	129038003
Able to avoid obstacles when running	282547008
Able to get in and out of a chair	301644009
Able to get in bath	301528008
Able to get into bed without assistance	941771000000100
Able to get into shower	301509001
Able to get off a bed	301675000
Able to get off toilet	301550009
Able to get on a bed	301668001
Able to get on to toilet	301544004
Able to get out of a chair	301656005
Able to get out of bath	301534001
Able to get out of bed without assistance	129050009
Able to get out of shower	301516000
Able to initiate running	282536001
Able to initiate walking	282203003
Able to manage external stairs	943551000000100
Able to manage external steps	943531000000107
Able to manage internal stairs	943561000000102
Able to manage internal steps	943541000000103
Able to manage stairs	301588006
Able to manage stairs backwards	301606000
Able to manage stairs on all fours	301594003
Able to manage stairs on bottom	301600006
Able to mobilise using mobility scooter	761461000000103
Able to mobilise using mobility aids	301570003

Able to mobilise using wheelchair	301576009
Able to move around supporting self on furniture	301557007
Able to move up and down bed	301693004
Able to negotiate corners when running	282553008
Able to negotiate curbs	301491009
Able to roll over in bed	301687007
Able to run down a slope	282493009
Able to run down hill	282505009
Able to run down stairs	282530007
Able to run on flat	282481000
Able to run up a slope	282487001
Able to run up hill	282499008
Able to run up stairs	282524007
Able to start and stop walking spontaneously	282215004
Able to stop running	303360005
Able to stop walking	282209004
Able to turn onto side in bed	303493002
Able to use escalator	301631004
Able to use lift	301619001
Able to use stair lift	301625002
Able to use through floor lift	940421000000102
Able to walk backward pulling large toy	282240006
Able to walk carrying large toy	282234004
Able to walk down a slope	282161005
Able to walk down hill	282173005
Able to walk down stairs	282197001
Able to walk down step	282185002
Able to walk heel to toe	282228006
Able to walk on a narrow line	282222007
Able to walk on the flat	282149002
Able to walk short distances	201771000000108

Able to walk up a slope	282155007
Able to walk up hill	282167009
Able to walk up stairs	282192007
Able to walk up step	282179009
Bed-ridden	160685001
Confined to chair	160684002
Deterioration in ability to walk	711387003
Deterioration in ability to walk up stairs	707261001
Difficulty avoiding obstacles when running	282551005
Difficulty getting in and out of a chair	301648007
Difficulty getting in and out of bath	301526007
Difficulty getting in bath	301532002
Difficulty getting into shower	301514002
Difficulty getting off a bed	301679006
Difficulty getting off toilet	301555004
Difficulty getting on a bed	301673007
Difficulty getting on to toilet	301548001
Difficulty getting out of a chair	301660008
Difficulty getting out of shower	301520001
Difficulty in starting and stopping walking spontaneously	282220004
Difficulty in stopping walking	282213006
Difficulty in walking backward pulling large toy	282244002
Difficulty in walking carrying large toy	282238001
Difficulty initiating running	282540005
Difficulty initiating walking	282207002
Difficulty managing stairs backwards	301610002
Difficulty managing stairs on all fours	301598000
Difficulty managing stairs on bottom	301604002
Difficulty mobilising using mobility aids	301574007
Difficulty mobilising using wheelchair	301580004
Difficulty moving around supporting self on furniture	301561001

Difficulty moving up and down bed	301697003
Difficulty negotiating corners when running	282557009
Difficulty negotiating curbs	301495000
Difficulty rolling over in bed	301691002
Difficulty running down a slope	282497005
Difficulty running down hill	282509003
Difficulty running down stairs	282534003
Difficulty running down steps	282522006
Difficulty running on flat	282485009
Difficulty running up a slope	282491006
Difficulty running up hill	282503002
Difficulty running up stairs	282528005
Difficulty running up steps	282516002
Difficulty stopping running	282545000
Difficulty turning onto side in bed	303498006
Difficulty using escalator	301635008
Difficulty using lift	301623009
Difficulty using stair lift	301629008
Difficulty walking down a slope	282165001
Difficulty walking down hill	282177006
Difficulty walking down stairs	282201001
Difficulty walking down step	282189008
Difficulty walking heel to toe	282232000
Difficulty walking on a narrow line	282226005
Difficulty walking on the flat	282153000
Difficulty walking up a slope	282159001
Difficulty walking up hill	282171007
Difficulty walking up stairs	282195009
Difficulty walking up step	282183009
Does avoid obstacles when running	282549006
Does get in and out of a chair	301646006

Does get in bath	301530005
Does get into shower	301511005
Does get off a bed	301677008
Does get off toilet	301552001
Does get on a bed	301671009
Does get on to toilet	301546002
Does get out of a chair	301658006
Does get out of bath	301536004
Does get out of shower	301518004
Does initiate running	282538000
Does initiate walking	282205005
Does manage stairs backwards	301608004
Does manage stairs on all fours	301596001
Does manage stairs on bottom	301602003
Does mobilise using aids	301572006
Does mobilise using wheelchair	301578005
Does move around supporting self on furniture	301559005
Does move up and down bed	301695006
Does negotiate corners when running	282555001
Does negotiate curbs	301493007
Does not avoid obstacles when running	282550006
Does not get in and out of a chair	301647002
Does not get in bath	301531009
Does not get into shower	301512003
Does not get off a bed	301678003
Does not get off toilet	301553006
Does not get on a bed	301672002
Does not get on to toilet	301547006
Does not get out of a chair	301659003
Does not get out of shower	301519007
Does not initiate running	282539008

Does not initiate walking	282206006
Does not manage stairs backwards	301609007
Does not manage stairs on all fours	301597005
Does not manage stairs on bottom	301603008
Does not mobilise using mobility aids	301573001
Does not mobilise using wheelchair	301579002
Does not move around supporting self on furniture	301560000
Does not move up and down bed	301696007
Does not negotiate corners when running	282556000
Does not negotiate curbs	301494001
Does not roll over in bed	301690001
Does not run down a slope	282496001
Does not run down hill	282508006
Does not run down stairs	282533009
Does not run down steps	282521004
Does not run on flat	282484008
Does not run up a slope	282490007
Does not run up hill	282502007
Does not run up stairs	282527000
Does not run up steps	282515003
Does not start and stop walking spontaneously	282219005
Does not stop running	282544001
Does not stop walking	282212001
Does not turn onto side in bed	303496005
Does not use escalator	301634007
Does not use lift	301622004
Does not use stair lift	301628000
Does not walk backward pulling large toy	282243008
Does not walk carrying large toy	282237006
Does not walk down a slope	282164002
Does not walk down hill	282176002

Does not walk down stairs	282200000
Does not walk down step	282188000
Does not walk heel to toe	282231007
Does not walk on a narrow line	282225009
Does not walk on the flat	282152005
Does not walk up a slope	282158009
Does not walk up hill	282170008
Does not walk up stairs	282194008
Does not walk up step	282182004
Does roll over in bed	301689005
Does run down a slope	282495002
Does run down hill	282507001
Does run down stairs	282532004
Does run down steps	282520003
Does run on flat	282483002
Does run up a slope	282489003
Does run up hill	282501000
Does run up stairs	282526009
Does run up steps	282514004
Does start and stop walking spontaneously	282218002
Does stop running	282543007
Does stop walking	282211008
Does turn onto side in bed	303495009
Does use escalator	301633001
Does use lift	301621006
Does use stair lift	301627005
Does walk backward pulling large toy	282242003
Does walk carrying large toy	282236002
Does walk down a slope	282163008
Does walk down hill	282175003
Does walk down stairs	282199003

Does walk down step	282187005
Does walk heel to toe	282230008
Does walk on a narrow line	282224008
Does walk on the flat	282151003
Does walk up a slope	282157004
Does walk up hill	282169007
Does walk up stairs	282193002
Does walk up step	282181006
Fully mobile	160680006
Immobile	102491009
Impaired ability to transfer location	714914005
Impaired bed mobility	129859006
Impaired mobility	82971005
Impaired wheelchair mobility	129857008
Mobile in home	160682003
Mobile outside with aid	160681005
Mobility fair	160697000
Mobility poor	160693001
Mobility very poor	160692006
Needs help on stairs	165248001
Needs walking aid in home	160683008
No aid for walking	165252001
Optimum mobility	225985003
Patient unable to get up unaided	242591000000103
Reduced mobility	8510008
Stick only for walking	165253006
Tripod/quadrupod: walking	165254000
Unable to avoid obstacles when running	282548003
Unable to climb stairs	165247006
Unable to get in and out of a chair	301645005
Unable to get in bath	301529000

Unable to get into shower	301510006
Unable to get off a bed	301676004
Unable to get off toilet	301551008
Unable to get on a bed	301670005
Unable to get on to toilet	301545003
Unable to get out of a chair	301657001
Unable to get out of bath	301535000
Unable to get out of shower	301517009
Unable to initiate running	282537005
Unable to initiate walking	282204009
Unable to manage stairs backwards	301607009
Unable to manage stairs on all fours	301595002
Unable to manage stairs on bottom	301601005
Unable to mobilise using mobility scooter	762291000000104
Unable to mobilise using mobility aids	301571004
Unable to mobilise using wheelchair	301577000
Unable to move around supporting self on furniture	301558002
Unable to move in bed	301682001
Unable to move up and down bed	301694005
Unable to negotiate corners when running	282554002
Unable to negotiate curbs	301492002
Unable to roll over in bed	301688002
Unable to run down a slope	282494003
Unable to run down hill	282506005
Unable to run down stairs	282531006
Unable to run down steps	282519009
Unable to run on flat	282482007
Unable to run up a slope	282488006
Unable to run up hill	282500004
Unable to run up stairs	282525008
Unable to run up steps	282513005

Unable to start and stop walking spontaneously	282216003
Unable to stop running	282542002
Unable to stop walking	282210009
Unable to turn onto side in bed	303494008
Unable to use escalator	301632006
Unable to use lift	301620007
Unable to use stair lift	301626001
Unable to walk backward pulling large toy	282241005
Unable to walk carrying large toy	282235003
Unable to walk down a slope	282162003
Unable to walk down hill	282174004
Unable to walk down stairs	282198006
Unable to walk down step	282186001
Unable to walk heel to toe	282229003
Unable to walk on a narrow line	282223002
Unable to walk on the flat	282150002
Unable to walk up a slope	282156008
Unable to walk up hill	282168004
Unable to walk up step	282180007
Uses orthotic shoes	914031000000109
Uses single crutch for walking	443392007
Uses single walking stick	443320005
Uses two crutches for walking	443663000
Uses two walking sticks	443699005
Uses zimmer frame	165255004

Appendix D - Musculoskeletal reflex findings

A list of peripheral upper limb, lower limb and trunk reflexes describing whether the reflex is brisk, normal, reduced or absent.

PREFERRED_TERM	SNOMED CT ID
Abdominal reflex absent	274606006
Abdominal reflex brisk	299854005
Abdominal reflex normal	299853004
Abdominal reflex reduced	299852009
Absent plantar response	246592003
Anal reflex absent	299863007
Anal reflex brisk	299867008
Anal reflex normal	299866004
Anal reflex reduced	299865000
Ankle reflex absent	274818004
Ankle reflex brisk	299880006
Ankle reflex normal	299879008
Ankle reflex reduced	299878000
Biceps reflex absent	274820001
Biceps reflex brisk	299833003
Biceps reflex delayed	299834009
Biceps reflex normal	299832008
Cremasteric reflex negative	274607002
Cremasteric reflex positive	274608007
Decreased cremasteric reflex	130978009
Equivocal plantar response	246589002
Finger jerk absent	299842005
Finger jerk brisk	299846008
Finger jerk normal	299845007
Finger jerk reduced	299844006
Hoffman reflex equivocal	700408008

Hoffman's reflex negative	299850001
Hoffman's reflex positive	299849001
Knee reflex absent	274817009
Knee reflex brisk	299874003
Knee reflex normal	299873009
Knee reflex reduced	299872004
Plantar reflex normal	700407003
Radial reflex absent	274605005
Sacral reflex absent	299856007
Sacral reflex brisk	299860005
Sacral reflex normal	299859000
Sacral reflex reduced	299858008
Supinator reflex brisk	299839004
Supinator reflex normal	299838007
Supinator reflex reduced	299837002
Suprapatellar jerk diminished	418803009
Suprapatellar jerk normal	419363006
Triceps reflex absent	274819007
Triceps reflex brisk	299827007
Triceps reflex normal	299826003
Triceps reflex reduced	299825004

Appendix E - Pain aggravating factors

A list of those factors that commonly give rise to the onset of, or exacerbation, of pain related to the spine.

PREFERRED_TERM	SNOMED CT ID
Pain provoked by altercation	426068005
Pain provoked by breathing	426976009
Pain provoked by coughing	427146008
Pain provoked by eating	426277009
Pain provoked by exertion	427341007
Pain provoked by lifting	426351003
Pain provoked by light	425746004
Pain provoked by movement	425423002
Pain provoked by rest	426120002
Pain provoked by running	425781002
Pain provoked by temperature	427596002
Pain provoked by walking	426899007

Appendix F - Pain easing factors

A list of those factors that commonly give rise to the relieving of, or removal of, pain related to the spine.

PREFERRED_TERM	SNOMED CT ID
Pain relief by medication	428346000
Pain relief by rest	427935006
Pain relief by sitting up	429492007
Pain relief by supine position	428643002
Pain relief by walking	428911004
Pain relief related to position	429147006
Pain relieved by analgesic	706955002

Appendix G - Posture findings

A list of the most common clinical visual observations of posture, encountered when examining the patient. Posture can be defined as the way in which your body is positioned when you are sitting or standing

PREFERRED_TERM	SNOMED CT ID
Acquired postural kyphosis	58407003
Acquired postural lordosis	15444000
Antalgic posture	111953009
Congenital flat back deformity	428862002
Congenital postural lordosis	24897005
Congenital postural scoliosis	20944008
Postural kyphosis	268040001
Postural scoliosis	203645000

Appendix H - Spine movement findings

A list of active and passive physiological movements of the cervical, thoracic and lumbar spine where the findings are described as normal, increased, decreased or none. Note that a Physiological movement is any natural movement of a joint.

PREFERRED_TERM	SNOMED CT ID
Decreased active range of cervical spine extension	298419004
Decreased active range of cervical spine flexion	298408002
Decreased active range of cervical spine left side flexion	298442006
Decreased active range of cervical spine left rotation	298465001
Decreased active range of cervical spine protraction	303544005
Decreased active range of cervical spine retraction	303538006
Decreased active range of cervical spine right lateral flexion	298431002
Decreased active range of cervical spine right rotation	298453000
Decreased active range of lumbar spine extension	298615002
Decreased active range of lumbar spine flexion	298604007
Decreased active range of lumbar spine left lateral flexion	298638004
Decreased active range of lumbar spine left rotation	298660001
Decreased active range of lumbar spine right lateral flexion	298627004
Decreased active range of lumbar spine right rotation	298649005
Decreased active range of thoracic spine extension	298521007
Decreased active range of thoracic spine flexion	298510003
Decreased active range of thoracic spine left lateral flexion	298544005
Decreased active range of thoracic spine left rotation	298566003
Decreased active range of thoracic spine right lateral flexion	298533002
Decreased active range of thoracic spine right rotation	298555005
Decreased passive range of cervical spine extension	298425000
Decreased passive range of cervical spine flexion	298413003
Decreased passive range of cervical spine left lateral flexion	298447000
Decreased passive range of cervical spine left rotation	298470008
Decreased passive range of cervical spine right lateral flexion	298436007

Decreased passive range of cervical spine right rotation	298458009
Decreased passive range of lumbar spine extension	298620002
Decreased passive range of lumbar spine flexion	298609002
Decreased passive range of lumbar spine left lateral flexion	298643006
Decreased passive range of lumbar spine left rotation	298665006
Decreased passive range of lumbar spine right lateral flexion	298632003
Decreased passive range of lumbar spine right rotation	298654001
Decreased passive range of thoracic spine extension	298527006
Decreased passive range of thoracic spine flexion	298515008
Decreased passive range of thoracic spine left lateral flexion	298549000
Decreased passive range of thoracic spine left rotation	298571005
Decreased passive range of thoracic spine right lateral flexion	298538006
Decreased passive range of thoracic spine right rotation	298560009
Decreased range of cervical spine extension	431049001
Decreased range of cervical spine flexion	431025004
Decreased range of cervical spine movement	304344002
Decreased range of lumbar spine movement	304352004
Decreased range of thoracic spine movement	304348004
Increased active range of cervical spine extension	298418007
Increased active range of cervical spine flexion	298407007
Increased active range of cervical spine left lateral flexion	298441004
Increased active range of cervical spine left rotation	298463008
Increased active range of cervical spine protraction	303542009
Increased active range of cervical spine retraction	303537001
Increased active range of cervical spine right lateral flexion	298430001
Increased active range of cervical spine right rotation	298452005
Increased active range of lumbar spine extension	298614003
Increased active range of lumbar spine flexion	298603001
Increased active range of lumbar spine left lateral flexion	298637009
Increased active range of lumbar spine left rotation	298659006
Increased active range of lumbar spine right lateral flexion	298626008

Increased active range of lumbar spine right rotation	298648002
Increased active range of thoracic spine extension	298520008
Increased active range of thoracic spine flexion	298509008
Increased active range of thoracic spine left lateral flexion	298543004
Increased active range of thoracic spine left rotation	298565004
Increased active range of thoracic spine right lateral flexion	298532007
Increased active range of thoracic spine right rotation	298554009
Increased passive range of cervical spine extension	298424001
Increased passive range of cervical spine flexion	298412008
Increased passive range of cervical spine left lateral flexion	298446009
Increased passive range of cervical spine left rotation	298469007
Increased passive range of cervical spine right lateral flexion	298435006
Increased passive range of cervical spine right rotation	298457004
Increased passive range of lumbar spine extension	298619008
Increased passive range of lumbar spine flexion	298608005
Increased passive range of lumbar spine left lateral flexion	298642001
Increased passive range of lumbar spine left rotation	298664005
Increased passive range of lumbar spine right lateral flexion	298631005
Increased passive range of lumbar spine right rotation	298653007
Increased passive range of thoracic spine extension	298526002
Increased passive range of thoracic spine flexion	298514007
Increased passive range of thoracic spine left lateral flexion	298548008
Increased passive range of thoracic spine left rotation	298570006
Increased passive range of thoracic spine right lateral flexion	298537001
Increased passive range of thoracic spine right rotation	298559004
Increased range of cervical spine movement	304343008
Increased range of lumbar spine movement	304351006
Increased range of thoracic spine movement	304347009
No active range of cervical spine extension	298420005
No active range of cervical spine flexion	298409005
No active range of cervical spine left lateral flexion	298443001

No active range of cervical spine left rotation	298466000
No active range of cervical spine protraction	303545006
No active range of cervical spine retraction	303539003
No active range of cervical spine right lateral flexion	298432009
No active range of cervical spine right rotation	298454006
No active range of lumbar spine extension	298616001
No active range of lumbar spine flexion	298605008
No active range of lumbar spine left lateral flexion	298639007
No active range of lumbar spine left rotation	298661002
No active range of lumbar spine right lateral flexion	298628009
No active range of lumbar spine right rotation	298650005
No active range of thoracic spine extension	298522000
No active range of thoracic spine flexion	298511004
No active range of thoracic spine left lateral flexion	298545006
No active range of thoracic spine left rotation	298567007
No active range of thoracic spine right lateral flexion	298534008
No active range of thoracic spine right rotation	298556006
No cervical spine movement	304345001
No lumbar spine movement	304353009
No passive range of cervical spine extension	298426004
No passive range of cervical spine flexion	298414009
No passive range of cervical spine left lateral flexion	298448005
No passive range of cervical spine left rotation	298471007
No passive range of cervical spine right lateral flexion	298437003
No passive range of cervical spine right rotation	298459001
No passive range of lumbar spine extension	298621003
No passive range of lumbar spine flexion	298610007
No passive range of lumbar spine left lateral flexion	298644000
No passive range of lumbar spine left rotation	298666007
No passive range of lumbar spine right lateral flexion	298633008
No passive range of lumbar spine right rotation	298655000

No passive range of right thoracic spine rotation	298561008
No passive range of thoracic spine extension	298528001
No passive range of thoracic spine flexion	298516009
No passive range of thoracic spine left lateral flexion	298550000
No passive range of thoracic spine left rotation	298572003
No passive range of thoracic spine right lateral flexion	298539003
No thoracic spine movement	304349007
Normal active range of cervical spine extension	298417002
Normal active range of cervical spine flexion	298406003
Normal active range of cervical spine left lateral flexion	298440003
Normal active range of cervical spine left rotation	298462003
Normal active range of cervical spine protraction	303541002
Normal active range of cervical spine retraction	303536005
Normal active range of cervical spine right lateral flexion	298429006
Normal active range of cervical spine right rotation	298451003
Normal active range of lumbar spine extension	298613009
Normal active range of lumbar spine flexion	298602006
Normal active range of lumbar spine left lateral flexion	298636000
Normal active range of lumbar spine left rotation	298658003
Normal active range of lumbar spine right lateral flexion	298625007
Normal active range of lumbar spine right rotation	298647007
Normal active range of thoracic spine extension	298519002
Normal active range of thoracic spine flexion	298508000
Normal active range of thoracic spine left lateral flexion	298542009
Normal active range of thoracic spine left rotation	298564000
Normal active range of thoracic spine right lateral flexion	298531000
Normal active range of thoracic spine right rotation	298553003
Normal passive range of cervical spine extension	298423007
Normal passive range of cervical spine flexion	298411001
Normal passive range of cervical spine left lateral flexion	298445008
Normal passive range of cervical spine left rotation	298468004

Normal passive range of cervical spine right lateral flexion	298434005
Normal passive range of cervical spine right rotation	298456008
Normal passive range of lumbar spine extension	298618000
Normal passive range of lumbar spine flexion	298607000
Normal passive range of lumbar spine left lateral flexion	298641008
Normal passive range of lumbar spine left rotation	298663004
Normal passive range of lumbar spine right lateral flexion	298630006
Normal passive range of lumbar spine right rotation	298652002
Normal passive range of thoracic spine extension	298525003
Normal passive range of thoracic spine flexion	298513001
Normal passive range of thoracic spine left lateral flexion	298547003
Normal passive range of thoracic spine left rotation	298569005
Normal passive range of thoracic spine right lateral flexion	298536005
Normal passive range of thoracic spine right rotation	298558007
Normal range of cervical spine movement	304342003
Normal range of lumbar spine movement	304350007
Normal range of thoracic spine movement	304346000

Appendix I - Transfer ability findings

A list of descriptions capturing the individual's ability to transfer between 2 surfaces/objects e.g. bed, chair.

PREFERRED_TERM	SNOMED CT ID
Able to perform wheelchair transfers	302269003
Able to transfer between wheelchair and toilet	302275007
Able to transfer from bed to chair	715076006
Able to transfer from bed to wheelchair	715077002
Able to transfer from car to wheelchair	715078007
Able to transfer from chair to bed	715079004
Able to transfer from chair to toilet	715080001
Able to transfer from chair to wheelchair	715081002
Able to transfer from toilet to chair	715082009
Able to transfer from toilet to wheelchair	715083004
Able to transfer from wheelchair to bed	715084005
Able to transfer from wheelchair to car	715085006
Able to transfer from wheelchair to chair	715086007
Able to transfer from wheelchair to toilet	715087003
Able to transfer to vehicle independently	920491000000101
Able to transfer to vehicle with assistance	920641000000109
Able to transfer to vehicle with supervision	920621000000102
Difficulty performing wheelchair transfers	302273000
Difficulty transferring bed to wheelchair	714923008
Difficulty transferring between wheelchair and toilet	302279001
Difficulty transferring from bed to chair	715090009
Difficulty transferring from car to wheelchair	715091008
Difficulty transferring from chair to bed	715092001
Difficulty transferring from chair to toilet	715093006
Difficulty transferring from chair to wheelchair	715094000
Difficulty transferring from toilet to chair	715095004

Difficulty transferring from toilet to wheelchair	715096003
Difficulty transferring from wheelchair to bed	715097007
Difficulty transferring from wheelchair to car	715098002
Difficulty transferring from wheelchair to chair	715099005
Difficulty transferring from wheelchair to toilet	715100002
Does not perform wheelchair transfers	302272005
Does not transfer between wheelchair and toilet	302278009
Does not transfer from bed to wheelchair	715102005
Does not transfer from car to wheelchair	715103000
Does not transfer from chair to toilet	715105007
Does not transfer from chair to wheelchair	715106008
Does not transfer from toilet to chair	715107004
Does not transfer from toilet to wheelchair	715108009
Does not transfer from wheelchair to bed	715109001
Does not transfer from wheelchair to car	715110006
Does not transfer from wheelchair to chair	715111005
Does not transfer from wheelchair to toilet	715112003
Does transfer between wheelchair and toilet	302277004
Does transfer from bed to chair	715113008
Does transfer from bed to wheelchair	715114002
Does transfer from car to wheelchair	715115001
Does transfer from chair to bed	715116000
Does transfer from chair to toilet	715117009
Does transfer from chair to wheelchair	715118004
Does transfer from toilet to chair	715119007
Does transfer from toilet to wheelchair	715120001
Does transfer from wheelchair to bed	715121002
Does transfer from wheelchair to car	715122009
Does transfer from wheelchair to chair	715123004
Does transfer from wheelchair to toilet	715124005
Independent transfer from bed to chair	715125006

Independent transfer from chair to bed	715126007
Unable to perform wheelchair transfers	302270002
Unable to transfer between wheelchair and toilet	302276008
Unable to transfer from bed to wheelchair	715129000
Unable to transfer from car to wheelchair	715130005
Unable to transfer from chair to toilet	715132002
Unable to transfer from chair to wheelchair	715133007
Unable to transfer from toilet to chair	715134001
Unable to transfer from toilet to wheelchair	715135000
Unable to transfer from wheelchair to bed	715136004
Unable to transfer from wheelchair to car	715137008
Unable to transfer from wheelchair to chair	715138003
Unable to transfer from wheelchair to toilet	715139006

Appendix J - Wound integrity findings

A list of descriptions of the status of a wound post operatively.

PREFERRED_TERM	SNOMED CT ID
Abnormality of surgical wound	417713005
Deep incisional surgical site infection	609340004
Delayed healing of surgical wound	239169007
Discharge from suture line	304286005
Extensive postoperative wound cellulitis	307231000
Granuloma of surgical wound	440347004
MRSA infection of postoperative wound	308155002
Non-healing surgical wound	403676009
Overgranulating secondary intention surgical wound	403677000
Postoperative cellulitis of surgical wound	428780000
Postoperative wound cellulitis	307230004
Postoperative wound haemorrhage	698584008
Postoperative wound infection	58126003
Postoperative wound infection-deep	213286009
Postoperative wound infection-superficial	213287000
Postoperative wound sinus	310639000
Superficial incisional surgical site infection	609339001
Surgical wound necrosis	213275007
Suture line inflamed	225916007