

**SCOPING - ICDH for DIETICIANS- chapter 6 Digestion, nutrition and metabolic functions
(an adapted version of the beta-1 draft of ICDH-2)**

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Goal: to create a basis for the development of a version of SPET useful to dissect functions / structure and impairments of the digestive system

<p>Present SPET The for the functions / structure / impairments of the digestive system relevant categories of the present SPET-version are indicated in fat print. These categories must be included in the SPET-version to be developed for the dissection of functions / structure / impairments as well as the necessary links between these categories.</p>	<p>Remarks</p>	<p>New links Links which are not available in the present SPET-version, but which are needed for the dissection of chapter 6.</p>	<p>Necessity for new link</p>
<p>- pathology & impairment</p> <p>x lesion</p>	<p>'Pathology' as such is too small; descriptors included in this category are also impairments, like pain and nausea. Of course it is possible to have two separate classes, one for pathology and one for impairment. But as each descriptor can only be in one category it is probably wise to take pathology & impairment as one category as it is difficult to decide whether pain or deformity have to be included in the category pathology or in the category impairment.</p>	<p>pathology & impairment HAS LEVEL level (level is part of characteristic)</p> <p>pathology & impairment HAS TEMPORAL MARKER temporal marker</p> <p>pathology & impairment CAUSED BY food (or: FOLLOWS food) (food is part of contextual factors)</p> <p>pathology & impairment CAUSED BY foodproductgroup</p> <p>pathology & impairment CAUSED BY foodproduct</p> <p>pathology & impairment CAUSED BY nutrient</p>	<p>to indicate the presence of an impairment and to indicate the severity of the impairment (e.g. reduced or with effort)</p> <p>to indicate that some impairments take place at certain moments in time</p> <p>to indicate e.g. foodallergy, with inclusion of the kind of food</p>

- approach			
<p>- characteristic</p> <p>- age</p> <p>- feature</p> <ul style="list-style-type: none"> new descriptors + continuity + consistency (fluid, soft, etc.) + composition (e.g. fatty) + colour (e.g. black) <p>x drug feature</p> <p>x extent</p> <p>x method</p> <p>x laterality</p> <p>x position</p> <p>x sex</p> <p>x temporal marker</p>	<p>To be added are descriptors related to characteristics of anatomical structures like continuity, length, etc. Body length will be spelled as 'body HAS FEATURE length' and continuity intestines as 'intestine HAS FEATURE continuity'. Furthermore descriptors have to be added related to consistency, volume, composition and colour of food and faeces.</p>	<p>body process IS FUNCTION OF age</p> <p>pathology & impairment IS FUNCTION OF age</p> <p>feature HAS LEVEL level</p> <p>pathology & impairment HAS TEMPORAL MARKER temporal marker</p> <p>body process HAS TEMPORAL MARKER temporal marker</p>	<p>in some items the person involved is indicated(or with person ??)</p> <p>e.g. to indicate that the length, or another characteristic, is too big, too small or in another way deviating from 'normal'</p> <p>to indicate when a process takes place; e.g. eating on a strange moment in time</p>
<p>- process</p> <p>x body process</p> <p>x deed</p> <p>x health care act</p>	<p>In this class all functions relevant for dieticians have to be incorporated, this means that things like digestion and growth have to be added.</p>	<p>body process HAS TEMPORAL MARKER temporal marker</p> <p>body process HAS LEVEL level</p>	<p>to indicate when a process takes place; e.g. eating on a strange moment in time</p>

<ul style="list-style-type: none"> x non health care act 			
<ul style="list-style-type: none"> - quantity x number x ordinal position x range 			
<ul style="list-style-type: none"> - substance x body substance x chemical 	<p>The category 'body substance' includes, besides 'products' like sweat and faeces, also the tissues.</p>	<p>body substance HAS FEATURE feature</p> <p>body substance HAS LEVEL level</p>	<p>e.g. to indicate the consistence, amount or colour of e.g. faeces</p>
<ul style="list-style-type: none"> - structure x abstract structure - anatomy x anatomical connection x anatomic part x body space - body system anatomy - cardiovascularSystemAnatomy x blood vessel x part of heart x digestiveSystemAnatomy - endocrineSystemAnatomy x gland x genitoUrinarySystemAnatomy - lymphoreticularSystemAnatomy x lymphNode - musculoSkeletalSystemAnatomy x bone 	<p>For us it is still unclear which descriptors are part of the category 'anatomic part; we expected an item like 'muscle' in this category, but 'muscle' is part of 'musculoskeletal system'. On the other hand a descriptor like 'meniscus' is included in the category anatomic part.</p>	<p>anatomy HAS FEATURE feature</p>	<p>e.g. to indicate continuity of intestines or dimensions of an organ</p>

<ul style="list-style-type: none"> x joint - nervousSystemAnatomy x nerve - orodentalSystemAnatomy - respiratorySystemAnatomy - sensorySystemAnatomy 			
<ul style="list-style-type: none"> - device x material x prosthesis 			
<ul style="list-style-type: none"> - organism x person 			
to be added:			
<ul style="list-style-type: none"> - characteristic x level 	<p>To indicate the presence of e.g. an impairment or a body process, but also to indicate the severity of an impairment.</p> <p>Possible descriptors, e.g.:</p> <ul style="list-style-type: none"> * absent * difficult * impaired * impossible * less (than usual) * more (than usual) * much more (than usual) * normal * partly present * possible * present 	<ul style="list-style-type: none"> pathology & impairment HAS LEVEL level body process HAS LEVEL level body substance HAS LEVEL level 	
<ul style="list-style-type: none"> - contextual factor x personal factor 	added to be able to include food		

<p>-</p> <p>- food</p> <p>x foodproductgroup</p> <p>x foodproduct</p> <p>x nutrient</p>	<p>environm ental factor</p> <p>In the beta-1 draft of ICDH-2 this item is a subclass of environmental factors</p> <p>foodproductgroups Descriptors, e.g. * fruit * vegetables * nuts * meat * fish * cereals * milk and milk products</p> <p>specific products Descriptors, e.g. * chocolate * wine</p> <p>nutrients Descriptors, e.g. * fat * glucose * minerals * nickel * protein</p>	<p>food 'CAUSES' pathology & impairment (of: FOLLOWED BY pathology & impairment)</p> <p>food HAS FEATURE feature</p> <p>food HAS QUANTITY quantity</p> <p>foodproductgroup CONSISTS OF foodproduct foodproductgroup CAUSES pathology & impairment foodproductgroup HAS QUANTITY quantity foodproductgroep IS PART OF food</p> <p>foodproduct IS PART OF foodproductgroup foodproduct CONSISTS OF nutrients foodproduct CAUSES pathology & impairment foodproduct HAS QUANTITY quantity</p> <p>nutrient IS PART OF foodproduct nutrient CAUSES pathology & impairment nutrient HAS QUANTITY quantity</p>	<p>e.g. the consumption of chocolate can result in an allergic reaction e.g. to indicate the consistency of food</p>

START OF THE DISSECTION

For the Classification of Impairments / Functions and structure each item has to start with:

BODY PROCESS or ANATOMY or PATHOLOGY & IMPAIRMENT

We suppose that, with respect to all for dieticians relevant categories, the links remain that are available in the present SPET-version.

Some examples to show the result of the dissection when the categories, descriptors and links presented above are used

f600 nutrition
nutrition (*body process*)

f6000 food allergy
allergy (*pathology & impairment*)
CAUSED BY food

Although f6000 is a 'child' of f600, this is not evident from the dissection; is probably due to the rather strange 'mother' nutrition.

f60000 allergy for chicken egg protein
allergy (*pathology & impairment*)
CAUSED BY chicken egg protein (*nutrient*)

f60004.0 no allergy for fruit
allergy (*pathology & impairment*)
CAUSED BY fruit (*productgroup*)
IS PART OF food (redundant ??)
HAS LEVEL absent

f6003 transport of food
transport (*body process*)
ACTS ON food
IS FUNCTION OF intestinal tract

f6010010.2 impossibility to swallow thin fluid food
swallowing (*body process*)
ACTS ON food
HAS FEATURE thin fluid
HAS LEVEL impossible

f60201 amount and frequency of food / drink intake for children
consumption (*body process*)
ACTS ON food
HAS FEATURE amount
HAS FEATURE frequency
IS FUNCTION OF child

f60300.3 production of soft faeces
production (*body process*)
ACTS ON faeces
HAS FEATURE soft

f60301.1 production of little / no faeces
production (*body process*)
ACTS ON faeces
HAS LEVEL less or absent

f6052 heartburn

experience (*body process*)

ACTS ON heartburn

f60740.1 impairment in production of bile

bile production (*body process*)

IS FUNCTION OF liver

HAS LEVEL impaired

f6080 growth of children

growth (*body process*)

IS FUNCTION OF child

f60801.2 too small for age

growth (*body process*)

IS FUNCTION OF child

ACTS ON body (*structure?*)

HAS FEATURE length

HAS LEVEL less

st60.1 obstruction oesophagus

obstruction (*pathology & impairment*)

HAS LOCATION oesophagus

st620.1 lessened amount of intestinal villi

villi (*body substance*)

HAS FEATURE amount

HAS LEVEL less

IS PART OF intestine