

23 Recommendations

Linkage between ICD and terminologies, e.g. SNOMED will allow taking advantage of the internal and external linkages of such terminologies, and allowing the terminologies to feed information into established national and international health information systems, as for decision support, or public health. SNOMED CT is a terminology with ontological relationships starting from pathology. It is pooling different terminologies that are maintained by specialists in the relevant fields. SNOMED is the biggest clinical terminology in the field of health. Linkages between ICD and SNOMED should be part of the revision process. Established linkages to ICD-10 can be a starting point.

Differing information models for “disease” exist. A set of tools that are relevant to the revision is in use or under development. An additional advisory group for informatics and modelling will align disease models, assess, design, and produce the tooling environment necessary to the revision that is in line with the current technical environment.

¹ WHO Nomenclature Regulations, 1967; ICD-10, 1st edition Volume I ; p.124.fff

[#] WHOSIS Health expenditures 2008, data year 2005, ICD implementation in reimbursement and resource allocation, WHO implementation database

^{##} MDGs

腎臓ワーキンググループ 資料



World Health
Organization

Nephrology Working Group Internal Medicine Topic Advisory Group

Original ICD-10 Codes related to Renal Transplant

T86 Failure and rejection of transplanted organs and tissues
- T86.1 Kidney transplant failure and rejection

Z52 Donors of organs and tissues *Excludes:* examination of potential donor (Z00.5)
- Z52.4 Kidney donor

Z49 Care involving dialysis *Includes:* dialysis preparation and treatment

Excludes: renal dialysis status (Z99.2)

- Z49.0 Preparatory care for dialysis

- Z49.1 Extracorporeal dialysis Dialysis (renal) NOS

- Z49.2 Other dialysis Peritoneal dialysis

Z94 Transplanted organ and tissue status *Includes:* organ or tissue replaced by heterogeneous or
homogenous transplant

Excludes: complications of transplanted organ or tissue - see Alphabetical Index
presence of:

· vascular graft (Z95.-)

· xenogenic heart valve (Z95.3)

- Z94.0 Kidney transplant status

Z99 Dependence on enabling machines and devices, not elsewhere classified

- Z99.2 Dependence on renal dialysis Presence of arteriovenous shunt for dialysis

Renal dialysis status

Excludes: dialysis preparation, treatment or session (Z49.-)

Tasks

The Nephrology Working Group within the Internal Medicine TAG is contributing to the revision of categories in the ICD relating to kidney diseases. Diseases of the kidney are found throughout the ICD-10, principally found within Chapter 14. The Working Group also formulates definitions and diagnostic criteria for the relevant categories, and suggests changes to the classification structure.

Members

Name	Affiliation	Country	Contact
** Lesley Stevens	Tufts Medical Center	USA	lstevens1@tuftsmedicalcenter.org
** Yasuhiko Iino	Nippon Medical School	Japan	iinoyasuhiko@nms.ac.jp
Andreas Kribben	University of Essen	Germany	
C. White	B.C. Children's Hospital	Canada	
E. Burdmann	Sao Jose do Rio Preto	Brazil	
G. Becker	Royal Melbourne Hospital	Australia	
K. Simpson	Scottish Renal Registry	Scotland	
Trevor Germtholtz	African Institute of Kidney Diseases	South Africa	
M. Zhao	Peking University First Hospital	China	

**Co-Chairs

Progress

Organization:

The Nephrology Working Group was formed under consultation by WHO and the TAG Internal Medicine. The Working Group has identified a managing two co-chairs for the alpha drafting of the ICD-11.

Discussions regarding changes to the linearization have started.

Last Updated:

2010-03-02

Proposal for Revisions to Renal Transplant for ICD-11

Revisions	LAS comments
Renal transplant recipient Graft from living donor Graft from deceased donor	See below in donor row for suggestions for additional ways to describe graft source
Recipient of simultaneous pancreas and kidney transplant	Additional code for pancreas transplant already present in classification system
Abnormalities related to graft function (Add CKD staging as per the KDIGO classification) Primary graft nonfunction	In US, definition is requirement for dialysis. Is this a country specific definition
Acute graft dysfunction Acute rejection Antibody mediated Cellular Acute tubular necrosis Other causes Acute CNI toxicity	Need biopsy to distinguish between these codes, so would suggest adding "not specified" as well What level of detail for biopsy findings should be coded – eg Banff criteria?
Chronic graft dysfunction	
Chronic rejection including transplant glomerulopathy	We should speak with pathologists re distinction between chronic rejections vs Tx glomerulopathy
Chronic CNI toxicity	
Other causes	
Interstitial fibrosis/tubular atrophy (including chronic allograft nephropathy)	
Recurrent disease in the allograft (need to be harmonized with original disease classification)	
De novo disease in the allograft (need to be harmonized with original disease classification)	
Non-infectious complications	
Obstruction	Should confer with transplant surgeons if helpful to have more specific information as to cause of obstruction
Transplant renal artery stenosis	
New onset diabetes after transplantation	Will need to overlap w endocrine section
Post-transplant malignancy	Post transplant malignancy often cannot be determined if related or not related to the transplant. We should consider adding here only specific malignancies secondary to transplant (as per next item). For the

Post-transplant lymphoproliferative disorder Polyclonal hyperplasia Monoclonal proliferation (lymphoma) (*Classification of subtypes, e.g. CD20+ or negative) Others (e.g. myeloma)	remainder, the malignancy as well as the transplant status would be coded for an individual patient to indicate that this is a post-transplant malignancy
Post-transplant infections Opportunistic infection Other infections	We should consider whether better to be specific for type of infection vs differentiating opportunistic vs other, which cannot always be determined. For eg, BK virus – should we distinguish between viremia vs nephropathy?
Donors Living donor status Deceased donor Heart-beating donor Donation after cardiac death Marginal donor	Donor information is relevant for recipient as well as for living donors. For recipient, we could consider adding an additional digit to the renal transplant status to indicate donor source. For the living donors, should be a code to indicate post donation status

E87

Other disorders of fluid, electrolyte and osmolality and hypernatraemia

E87.0

Sodium [Na] excess
Sodium [Na] overload
Sodium [Na] overload
Hypo-osmolality and hyponatraemia
Sodium [Na] deficiency

E87.1

Acidosis
Acidosis: Syndrome of inappropriate secretion

E87.2

Acidosis:

E87.3

Alkalosis

E87.4

Mixed disorder of acid-base balance

E87.5

Hyperkalaemia

E87.6

Hypokalaemia

E87.7

Fluid overload

E87.8

Other disorders of electrolyte and fluid balance
Electrolyte imbalance NOS
Hyperchloraemia
Hypochloraemia

Code	Title	Original	Revised			IAS comments	DRAFT #1 CTW November 30/09	CIV comments	Julie Rust - classification comments
		Main Code	1st	2nd	3rd				
E 87	Other disorders of fluid, electrolyte and acid-base balance					Disorders of Electrolytes, Volume Status and Acid-Base balance		First proposed changes in the title of code E87.0 Disorders of Electrolytes, Volume Status and Acid-Base balance. I would call it Disorders of Electrolytes, Volume Status and Acid-Base balance. I would also suggest that the Calcium and Phosphate codes, at least some of them, really should be over to play with here - I have already discussed with Lesley and Yasuhiko who initially were sceptical ("Don't mess" from Lesley, but they may return later, and finally I am not sure how to handle the Potential Code for respiratory alkalosis, at the original IAS meeting we discussed the relevant codes in the comments section, and perhaps we can "link" or "strongly highlight" the potential assignment by using a 3rd digit code for example. It seems it is a Potential Code in any or all of the right directions depending on WHO (or Lesley or Yasuhiko) decision).	The perinatal codes could be linked by the multiple parent feature in IAT, but would live in the perinatal chapter in the translation.
E87.8	Other disorders of electrolyte and fluid balance, not elsewhere classified	E87.0				Other electrolyte, volume status and acid-base balance disorder, NOS		NOS is not otherwise specified, here there is a potential code from 201 - 774 Other electrolyte, volume, fluid, and metabolic balance disorder, NOS (potential code P74.4 Other electrolyte, volume, fluid, and metabolic balance disorder, NOS)	Same as above.
E87.0	Hyperosmolality and hypernatraemia Sodium [Na] excess Sodium [Na] overload	E87.1	1			Dysnatremia, NOS		Changes the position and the IAS title (table below) to more closely mirror the clinical order approach to the dysnatremias. Note I am not sure how to handle the many potential codes for P74.2 Dysnatremia in sodium balance in the hypernatraemia.	There was discussion at the teleconference about the 'central brain cause' code - my question was whether it could apply to the codes above and if so, then it is not mutually exclusive.
E87.1	Hypo-osmolality and hyponatraemia Sodium [Na] deficiency Excludes: Syndrome of inappropriate secretion of antidiuretic hormone (E22.2)	E87.1	1	6		Hyponatremia, hyponatremia Hyponatremia, hyponatremia Hyponatremia, hyponatremia		Central or Medullary Diabetes insipidus (I Code at 2nd decimal point)	
E87.2	Acidosis	E87.2				Potassium disorder, NOS		Does not meet the NOS criteria as could add in OI and Disorders of balance of osmolality, but only for some of the potential codes. The first decimal code system where we could have P74.4 for NOS through 'potassium' - 'potassium' would be doing what the Hypokalaemia and could also be in some other cases such as poisoning by the first decimal, since the potential codes here could be P74.3 Disbalance of potassium balance of potassium	If you want to link the disorder to causes, better to double code, ie add an additional code for the underlying cause and link it to this one. A list in the section will never be exhaustive and will contain too many pre-coded codes. If the potassium disorder is due to a poisoning, this will be captured by an external cause code, ie the substance.
E87.3	Alkalosis	E87.3				Alkalosis, NOS			
E87.4	Mixed disorder of acid-base balance	E87.4				Mixed disorder of acid-base balance			
E87.5	Hyperkalaemia	E87.5				Hyperkalaemia, NOS Hyperkalaemia, Renal cause Hyperkalaemia, Extrarenal cause Hyperkalaemia, Redistribution Hyperkalaemia, Spurious			
E87.6	Hypokalaemia	E87.6				Hypokalaemia, NOS Hypokalaemia, Renal cause Hypokalaemia, Extrarenal cause Hypokalaemia, Redistribution			
E87.7	Fluid overload	E87.7				Fluid overload, NOS			
E87.8	Other disorders of electrolyte and fluid balance	E87.8				Other disorders of electrolyte and fluid balance, NOS			
E87.0	Hyperosmolality and hypernatraemia	E87.0	1	1		Hypernatremia, NOS			
E87.1	Hypo-osmolality and hyponatraemia	E87.1	1	6		Hyponatremia, NOS			
E87.2	Acidosis	E87.2				Acidosis, NOS			
E87.3	Alkalosis	E87.3				Alkalosis, NOS			
E87.4	Mixed disorder of acid-base balance	E87.4				Mixed disorder of acid-base balance			
E87.5	Hyperkalaemia	E87.5				Hyperkalaemia, NOS			
E87.6	Hypokalaemia	E87.6				Hypokalaemia, NOS			
E87.7	Fluid overload	E87.7				Fluid overload, NOS			
E87.8	Other disorders of electrolyte and fluid balance	E87.8				Other disorders of electrolyte and fluid balance, NOS			
E87.0	Hyperosmolality and hypernatraemia	E87.0	1	1		Hypernatremia, NOS			
E87.1	Hypo-osmolality and hyponatraemia	E87.1	1	6		Hyponatremia, NOS			
E87.2	Acidosis	E87.2				Acidosis, NOS			
E87.3	Alkalosis	E87.3				Alkalosis, NOS			
E87.4	Mixed disorder of acid-base balance	E87.4				Mixed disorder of acid-base balance			
E87.5	Hyperkalaemia	E87.5				Hyperkalaemia, NOS			
E87.6	Hypokalaemia	E87.6				Hypokalaemia, NOS			
E87.7	Fluid overload	E87.7				Fluid overload, NOS			
E87.8	Other disorders of electrolyte and fluid balance	E87.8				Other disorders of electrolyte and fluid balance, NOS			

Original		Revised		LAB comments	DRAFT #1 CTW November 30/09	ICD-11 classification comments
E87.7	Fluid overload	87	4	Disorder of Fluid Status, NOS		
	Excludes: Oedema, not elsewhere classified (R60)	87	4.1	Hypervolemia	Question for the group: Utility of adding albumin status to the categorization. Also, the original code for hypervolemia/edema was separate and now integrated	
E86	Volume depletion Dehydration of volume of plasma or extracellular fluid Hypovolemia Excludes: Dehydration of newborn (P74.1) and hypovolemic shock (N93.1); postoperative (T81.1); traumatic (T84.1)	87	4.2	Hypovolemia, normal albumin		
		87	4.3	Hypovolemia, low albumin		
		87	4.4	General oedema, normal albumin		
		87	4.5	General oedema, low albumin		
		87	4.6	Anaemia		
		87	4.7	Dehydration, must be hypernatremia		
		87	4.8			
		87	4.9			
		87	5.1	Disorder of Osmolality, NOS	Question for the group - how is this different from HypoNa?	
		87	5.2	Hyposmolar Hyponatremia		
		87	5.3	Normosmolar Hyponatremia		
		87	5.4	Hyperosmolar Hyponatremia		
		87	5.5			
		87	5.6			
		87	5.7			
		87	5.8	Hyperosmolar Normonatremia		
		87	5.9	Hyperosmolar Hyponatremia		
		87	5.6	Acid Base Disorder, NOS		
E87.2	Acidosis	87	6.1.0	Metabolic Acidosis, NOS		
		87	6.1.1	Metabolic Acidosis, anion gap		
		87	6.1.2	Metabolic acidosis, non anion gap		
E87.3	Alkalosis	87	6.2.0	Metabolic Alkalosis, NOS		
		87	6.2.1	Metabolic Alkalosis, chloride responsive		
		87	6.2.2	Metabolic Alkalosis, chloride non-responsive		
E87.2	Acidosis	87	6.3.1	Respiratory Acidosis, acute		
		87	6.3.2	Respiratory Acidosis, chronic		
E87.3	Alkalosis	87	6.4.1	Respiratory Alkalosis, acute		
		87	6.4.2	Respiratory Alkalosis, chronic		
E87.4	Mixed disorder of acid-base balance	87	6.5.0	Mixed Acid Base Abnormality		

ICD-11 Proposal for Code 87 Other disorders of fluid, electrolyte and acid-base balance				DRAFT #1 CTW November 30/09
Main Code			Condition	Comments or points to consider in coding or inclusion
87	0		Other electrolyte, volume status and acid-base balance disorder, NOS	NOS is Not otherwise specified. Note there is a Neonatal code here too - P74 Other transitory neonatal electrolyte and metabolic disturbances. Also a very similar code P74.4 Other transitory electrolyte disturbances of newborn.
87	1		Dysnatremia, NOS	Obviously this section and the Fluid Status section below is more closely mirrored on the classic Shrier approach to the dysnatremia's - I find it simplest but there could be many others too. There is a Neonatal relevant code here - P74.2 Disturbances in sodium balance in the newborn.
87	1	1	Hypernatremia, NOS	
87	1	2	Hypernatremia, normal total body sodium	Central or Nephrogenic Diabetes insipidus (? Codes at third decimal point)
87	1	3	Hypernatremia, low total body sodium	
87	1	4	Hypernatremia, central brain cause	
87	1	5	Hyponatremia, NOS	
87	1	6	Hyponatremia, hypovolemia	
87	1	7	Hyponatremia, euvolemia	
87	1	8	Hyponatremia, hypervolemia	
87	1	9		
87	2		Potassium disorder, NOS	If we deleted the NOS options we could add in GI and Endocrine in place of Extrarenal but only for one of them without going to the third decimal point system where we would have 87.211-5 for NOS through Spurious. Advantage would be doing same for Hypokalemia and could also fit in some other issues such as poisoning or the like perhaps. Also the Neonatal codes here would be P74.3 Disturbances of potassium balance of newborn.
87	2	1	Hyperkalemia, NOS	
87	2	2	Hyperkalemia, Renal cause	
87	2	3	Hyperkalemia, Extrarenal cause	
87	2	4	Hyperkalemia, Redistribution	
87	2	5	Hyperkalemia, Spurious	
87	2	6	Hypokalemia, NOS	
87	2	7	Hypokalemia, Renal cause	
87	2	8	Hypokalemia, Extrarenal cause	
87	2	9	Hypokalemia, Redistribution	
87	3		Magnesium disorder, NOS	Numerous ways we could split this up - certainly extrarenal could be split into a GI and Endocrine division as well - with some overlap perhaps amongst the Redistribution group with respect to Endocrine. Other relevant codes that would need appropriation perhaps would be E61.2 Magnesium deficiency, E83.4 Disorders of magnesium metabolism (hyper or hypomagnesemia) and P71 Transient neonatal disorders of calcium and magnesium metabolism and P71.2 Neonatal hypomagnesemia or two very similar codes P71.8 Other transitory neonatal disorders of calcium and magnesium metabolism and P71.9 Transitory neonatal disorder of calcium and magnesium metabolism, unspecified.
87	3	1	Hypermagnesemia, NOS	
87	3	2	Hypermagnesemia, Renal	
87	3	3	Hypermagnesemia, Extrarenal	
87	3	4	Hypermagnesemia, Redistribution	
87	3	5	Hypomagnesemia, NOS	
87	3	6	Hypomagnesemia, Renal	
87	3	7	Hypomagnesemia, Extrarenal	
87	3	8	Hypomagnesemia, Redistribution	
87	3	9		

ICD-11 Proposal for Code 87 Other disorders of fluid, electrolyte and acid-base balance				DRAFT #1 CTW November 30/09
Main Code			Condition	Comments or points to consider in coding or inclusion
87	4		Disorder of Fluid Status, NOS	Note that I think this represents opportunity to reattach the correct definition to the words we use incorrectly, namely Dehydration = Hyponatremia and ICF volume loss; it does NOT mean Hypovolemia. Isolated edema is usually not a renal cause. There is a neonatal code for dehydration - ? definition they used for it? P74.1 Dehydration of Newborn.
87	4	1	Hypervolemia	
87	4	2	Hypovolemia, normal albumin	
87	4	3	Hypovolemia, low albumin	
87	4	4	General oedema, normal albumin	
87	4	5	General oedema, low albumin	
87	4	6	Anasarca	Can debate if we need this/ exactly what final definition would be, certainly seems to apply in some nephrotic syndrome patients.
87	4	7	Dehydration, must be hyponatremic	
87	4	8		
87	4	9		
87	5		Disorder of Osmolality, NOS	
87	5	1	Hypoosmolar Hyponatremia	Hyponatremic states
87	5	2	Normoosmolar Hyponatremia	#1 is Pseudohyponatremia, hyperlipidemia depending on analytic method or Multiple myeloma all of which cause excess non-water solution and hence decrease plasma water content but no change in ICF or ECF volume. #2 is addition of a non-sodium containing exogenous solute such as isotonic mannitol or the surgical irrigant solutions, here have increased non-sodium content in solution but no change in ICF volume.
87	5	3	Hyperosmolar Hyponatremia	Increased glucose, mannitol or IVIG if using maltose version, see initial rise in ECF volume then shift of water from ICF to ECF with dilution of Sodium.
87	5	4	Hyperosmolar Normonatremia	Alcohol Poisoning I believe
87	5	5	Hyperosmolar Hyponatremia	Hyponatremic states
87	5	6		
87	5	7		
87	5	8		
87	5	9		
87	6		Acid Base Disorder, NOS	Could delete 3rd decimal if removed AG vs NAG or Cl responsive/nonresponsive OR if we removed the NOS categories. There is one relevant Neonatal code - P74.0 Late metabolic acidosis of newborn. Of interest I do not believe you can be coded as having Metabolic Alkalosis or with any of the respiratory derangements IF you are a neonate/newborn.
87	6	1	0 Metabolic Acidosis, NOS	
87	6	1	1 Metabolic Acidosis, anion gap	
87	6	1	2 Metabolic acidosis, non anion gap	
87	6	2	0 Metabolic Alkalosis, NOS	
87	6	2	1 Metabolic Alkalosis, chloride responsive	
87	6	2	2 Metabolic Alkalosis, chloride non-responsive	
87	6	3	1 Respiratory Acidosis, acute	
87	6	3	2 Respiratory Acidosis, chronic	
87	6	4	1 Respiratory Alkalosis, acute	
87	6	4	2 Respiratory Alkalosis, chronic	
87	6	5	0 Mixed Acid Base Abnormality	

Chapter/section in ICD-10	Topic Area	Comments	Assignment primary	Assignment secondary
N00-N08	Glomerular diseases	Keep category, subcategories to change	MZ	GB
N10-N16	Renal tubulo-interstitial diseases	Keep category, subcategories to change	TG	MZ
Q61	Cystic disease	part of congenital malformations previously	CW	YI
N20 and others N17-N19	Vascular disease Renal failure	AKD and CKD codes to be updates to be consistent w KDIGO	YI	EB ARF-AK MZ CKD-LAS
N20-N23	Urolithiasis	This has not been assigned to us but we will review	YI	LAS
N25	Laboratory manifestations of kidney disease and its complications	To include home and mineral metabolism (N25)	EB	CW
EB3	anemia		KS	EB
EB7	abn of Na, K, HCO3		CW	AK
N6, N39, O10-14	Complications of treatments	urine (protein and blood)	LAS	CW
Z49, Z99	for kidney failure	Treatments in prior ICD have been designated using special V codes.	GB	TG
T86, Z52.4, Z94	Dialysis			
Transplant			VJ	KS

ICD-11 Revision
Renal Workgroup
 Conference call
 March 15th
 Additional Materials

Chapter/section	Topic Area	Comments	Primary	Secondary
110-115	Hypertension		AK	TG
E10-E14	Diabetes		GB	KS
C64-C68, C79	Malignancy		EB	VJ
O08.4, 10.2-3 26.8, 90.4	Pregnancy		VJ	AK
O23, Chap 1	Infections	Includes review of overlap areas in the ID chapter and codes in N00-N16.	TG	VJ
M30-M36	Systemic connective tissue disorders		KS	GB
120-125	Ischemic heart disease Liver diseases		AK	YI
			MZ	LAS

Process for Renal WG

Renal Primary Assignments

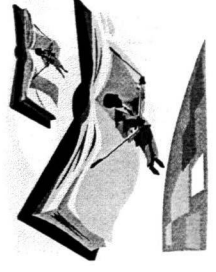
1. Change to structure
2. Add in data to content model
 1. Where evidence and consensus in community exists
 2. Highlight areas where definition possible but may need more consensus

Renal Secondary Assignments

1. Suggest changes to structure and work with other WG's with the primary assignment. TAG-IM to facilitate communication
2. WG with primary assignment is responsible for filling in content model. We may help, particularly if areas where consensus for definition etc does not exist

Tentative Timeline

- **2010: Alpha version (ICD 11 alpha draft)**
 - +1 YR : Commentaries and consultations
- **2011: Beta version & Field Trials Version**
 - +2 YR : Field trials
- **2013: Final version for public viewing**
 - **2014 : WHA Approval**
- **2015+ implementation**



Suggested Work Flow and Timeline: Renal Primary Assignments

- Primary reviewer Dec 2009
 - Agree with current structural outline or suggest changes.
 - Document or reference reasons for changes
- Secondary reviewer Dec-Jan 2009
 - If agree, then send to chairs.
 - If disagree, discuss with primary reviewer reasons for change. Document the reasons for disagreement, including references. Try to reach consensus but if not, send to chairs, with documentation of process of discussion
- Send to chairs with suggestions for additional experts to review *if thought to be required* Jan 10, 2010 →

April 15 2010

Suggested Work Flow and Timeline: Renal Primary Assignments (con't)

- Chairs review structural model Jan-Feb 2010 Apr 2010
- Conference call to review with WG Feb 2010 May 2010
- Send structural changes to WHO and TAG-IM Feb 2010 May 2010
- Primary reviewers fill in content model (goal 20% completion), secondary reviewers comment on the content model, and send to Chairs with documentation and references for all items. March 2010 May 2010 *(This could be done simultaneously with changes to structural model)*
- Experts review Feb-May 2010, depending on nature of review
- Send to TAG-IM Managing Editor May-Jun July 2010

Content Model

- Computerized tool (ICAT) is to be used by the WHO for the revisions (ICAT can be seen at <http://icatdemo.stanford.edu/>, (login and password user))
- However, still in development process and may add more work for us
- Therefore, we will use template (attachment) . Expectation is that we will not fill this out for all diseases

ICD Concept Title	Data	Comments/References
Textual Definition		
Synonyms		
Inclusion terms		
Exclusion terms		
Body Systems (Physiology)		
Anatomical site I		
Signs and Symptoms		
Severity and/or extent		
Temporal properties		
Investigations		
Diagnostic criteria		
Causal properties		
Risk factors		
Genomic linkages		
Functional properties		
Diagnostic rules		

THE CONTENT MODEL

Any Category in ICD is represented by:

TITLE of ENTITY: Name of disease, disorder, or syndrome...

Descriptive characteristics		Maintenance attributes	
1. Type	Disease, disorder, syndrome, injury, sign/symptom, external cause, reason for encounter,	A. Unique identifier	
2. Body System(s)	(pathophysiology)	B. Subset, adaptation, and special view flag	1. Primary Care 2. Clinical Care 3. Research 4. Special indices (e.g. Public Health indices or Resource Groupings)
3. Body Part(s)	(anatomical site)	C. Hierarchical relationships	parents and children in ICD structure
4. Manifestation Attributes	a. Signs & Symptoms b. Diagnostic Findings	D. Mapping relationships	Linkages to other systems like SNOMED etc.
5. Causal Properties (etiology)	a. Causal Mechanisms /Agents b. Genomic characteristics	E. Other rules	
6. Temporal Properties			
7. Severity and/or Extent			
8. Functional Impact			
9. Treatment			

Work flow for Secondary Assignments

- Chairs have informed IM-TAG of overlap areas Nov 2009
- IM-TAG to inform other TAG or IM of these overlap areas and to develop process for collaboration Dec 2009
- Primary reviewer Jan 2010
 - Agree with current structural outline or suggest changes.
 - Document or reference reasons for changes
- Secondary reviewer Jan 2010
 - If agree, then send to chairs.
 - If disagree, discuss with primary reviewer reasons for change. Document the reasons for disagreement, including references. Try to reach consensus but if not, send to chairs, with documentation of process of discussion
- Send to chairs by Feb, 2010
- Send to relevant TAG's or WG for discussion Feb-Mar 2010

Collaborations with Other Organizations

- International Pediatric Association (IPA)
/International Pediatric Nephrology Association
(IPNA). (Jie Ding; Franz Schaefer M.D.)
- ERA-EDTA (Keith Simpson)
- Proposal from Kitty Jager (ERA-EDTA Registry)
for meeting to discuss joint effort

