

APN ICD-10 Simplified Version

29-30 June 2015

**7th APN Meeting, Siem Reap,
Cambodia**

Why simplified version?



WHO-FIC
Asia Pacific
Network

ICD-10 Simplified
Version 2015

For Primary Care

This is a copy of the APN ICD-10 Simplified
Version 2015 for Primary care released by
the WHO-FIC Asia Pacific Network in
April 2015 (2-2 version)

- Make ICD coding easier than original version

Traditional way of ICD-10 coding

1. Use keyword to search the ICD index
2. Choose the ICD code from index
3. Verify the chosen code with the tabular list
4. May have to add the fourth or fifth character
5. Assign the code

Non insulin dependent diabetes mellitus

Traditional way step 1-2

Diabetes, diabetic (mellitus) (controlled) (terminal) (severe)

- acetonemia — code to *E10-E14* with fourth character .1
- acidosis — code to *E10-E14* with fourth character .1
- adult-onset (nonobese) (obese) *E11.-*
- arising in pregnancy *O24.4*
- - affecting fetus or newborn *P70.0*
- bone change — code to *E10-E14* with fourth character .6
- brittle *E10.-*
- bronze, bronzed *E83.1*
- cataract — code to *E10-E14* with fourth character .3
- chemical *R73.0*
- coma (hyperglycemic) (hyperosmolar) — code to *E10-E14* with fourth character .0
- complicating pregnancy, childbirth or puerperium (maternal) *O24.-*
- - affecting fetus or newborn *P70.1*
- neuropathy — code to *E10-E14* with fourth character .4
- - peripheral autonomic — code to *E10-E14* with fourth character .4
- - polyneuropathy *E14.4† G63.2**
- non-insulin-dependent (of the young) *E11.-*
- nonketotic *E11.-*
- phosphate *E83.3*
- renal *E74.8*

1. Choose keyword

2. Select ICD

Non insulin dependent diabetes mellitus

Traditional way step 3

E11 Non-insulin-dependent diabetes mellitus

See before E10 for subdivisions

Includes: diabetes (mellitus) (nonobese) (other)

- adult-onset
- maturity-onset
- nonketotic
- stable
- type II

non-insulin-dependent diabetes mellitus of the young

Excludes: diabetes mellitus (in):

- malnutrition-related (E12.-)
- neonatal (P70.2)
- pregnancy, childbirth and the puerperium (O24.-)
- glycosuria:
 - NOS (R81)
 - renal (E74.8)

impaired glucose tolerance (R73.0)
postsurgical hypoinsulinaemia (E89.1)

3. Verifying
Check includes,
excludes

Non insulin dependent diabetes mellitus

Traditional way step 4

Diabetes mellitus (E10–E14)

Use additional external cause code (*Chapter XX*), if desired, to identify drug, if drug-induced.

The following fourth-character subdivisions are for use with categories E10-E14:

.0 With coma

Diabetic:

- coma with or without ketoacidosis
- hyperosmolar coma
- hypoglycaemic coma

Hyperglycaemic coma NOS

.1 With ketoacidosis

Diabetic:

- acidosis } without mention of coma
- ketoacidosis }

.2† With renal complications

Diabetic nephropathy (N08.3*)

Intracapillary glomerulonephrosis (N08.3*)

Kimmelstiel-Wilson syndrome (N08.3*)



4. Add fourth character

Non insulin dependent diabetes mellitus

Traditional way step 5

- Assign the Code

E11.9

Simplified ICD-10 coding

1. Use keyword to search the ICD index
2. Choose the ICD code from index
3. Assign the code

Non insulin dependent diabetes mellitus

Simplified way step 1-2

1. Choose keyword

Diagnosis Term	General	Congenital	Perinatal Neonatal	Pregnancy	Childbirth	Postpartum
<u>Non-bullous impetigo</u>	L01.0	<u>na</u>	P39.4	O99.7	O99.7	O99.7
<u>Nondiabetic hypoglycaemia</u>	E16.2	P70.4	P70.4	O99.2	O99.2	O99.2
Non-insulin-dependent diabetes mellitus	E11.9	<u>na</u>	<u>na</u>	O24.1	O24.1	O24.1
Non-insulin-dependent diabetes mellitus without complications	E11.9	<u>na</u>	<u>na</u>	O24.1	O24.1	O24.1

2. Select ICD

Non insulin dependent diabetes mellitus

Simplified way step 3

- Assign the Code

E11.9

Coding time comparison

Steps	Traditional way coding time	Simplified way coding time
1. Keyword select	3 minutes	3 minutes
2. ICD select	3 minutes	30 seconds
3. ICD verify	2 minutes	-
4. Add 4 th digit	1 minutes	-
5. Assign code	30 seconds	30 seconds
Total time	9 min 30 sec	4 minutes

The restructured index in the APN ICD-10 Simplified Version

Old index structure

- 1
- Hemorrhoids I84.9**
 - bleeding, prolapsed, strangulated or ulcerated NEC I84.8
 - complicating
 - pregnancy O22.4
 - puerperium O87.2
 - external I84.5
 - bleeding, prolapsed, strangulated or ulcerated I84.4
 - thrombosed I84.3
 - internal I84.2
 - bleeding, prolapsed, strangulated
 - thrombosed I84.0

ICD-10 code for a pregnant woman with internal hemorrhoids.

An ICD-10 code which was commonly choose by a new or untrained user.

The restructured index in the APN ICD-10 Simplified Version

New index structure

Diagnosis Term	General	Congenital	Perinatal Neonatal	Pregnancy	Childbirth	Postpartum
Haemorrhoids in pregnancy	na	na	na	O22.4	O87.2	O87.2
Hemorrhoids	I84.9	na	na	O22.4	O87.2	O87.2
Hemorrhoids, external	I84.2	na	na	O22.4	O87.2	O87.2
Hemorrhoids, internal	I84.2	na	na	O22.4	O87.2	O87.2
Hemorrhoids; complicating pregnancy	na	na	na	O22.4	O87.2	O87.2

Patient Type Context

General A child patient over 29 days of age, **or**

A patient who is not currently pregnant, in
childbirth or postpartum period.

Congenital A patient with disease diagnosed as “**congenital**”

Perinatal, Neonatal A child patient under 29 days of age

Patient Type Context

Pregnancy

A patient who is currently pregnant.

Childbirth

A patient who have just gave child birth.

Postpartum

A patient who is in postpartum period.
(within 42 days after delivery).

How to do ICD coding with the APN ICD-10 Simplified Version

1. Select the appropriate section (1 to 4) to work with.
2. Using the keyword to find the diagnosis term based on the patient detail.
3. Choose the ICD-10 code(s) from the selected line.

1. Select the appropriate section

Coding Objective	Section to work with	ICD-10 character
Mortality (cause of death)		
- Death from Transport Accident	Section 2 Table of Land Transport Accident or Section 3 External Causes of Injury	V
- Death from Other Trauma	Section 3 External Causes of Injury	W, X, Y
- Death from Poisoning	Section 4 Table of Drugs and Chemicals	X, Y
- Death from Neoplasm	Section 2 Neoplasm Table	C, D
- Death from Other Diseases	Section 1 Diseases and Nature of Injury	A to R

1. Select the appropriate section

Morbidity (diseases)	Section	ICD-10 character
- Neoplasm	Section 2 Neoplasm Table	C, D
- Poisoning	Section 4 Table of Drugs and Chemicals	X, Y
- Other Diseases	Section 1 Diseases and Nature of Injury for trauma add code from Section 3 External Causes of Injury	A to T For trauma add V, W, X, Y

2. Using the keyword to find the diagnosis term

Section	Keyword	Examples
Section 1 Diseases and Nature of Injury	Disease name	Acute gingivitis Muscle Strain Tinea unguium of fingers
Section 2 Neoplasm Table	Neoplasm location	Neoplasm bone Neoplasm skin Neoplasm testis
Section 2 Table of Land Transport Accident	Victim (patient) and mode of transport	Pedestrian Motorcycle rider Occupant of bus
Section 3 External Causes of Injury	Cause of injury	Accident Assault Fall Suicide
Section 4 Table of Drugs and Chemicals	Drug or chemical name	Acetaminophen Diazepam Organophosphate

3. Choose the ICD-10 code(s)

Selection of ICD-10 code from section 1

Example 1: To find an ICD-10 code for a 25 years old pregnancy woman with diagnosis “Pharyngitis”

Diagnosis Term	General	Congenital	Perinatal Neonatal	Pregnancy	Partum
Pharyngitis	J02.9	na	P39.8	O99.5	O99.5
Philippine hemorrhagic fever	A91	P37.8	A91	O98.5	O98.5
Phimosis	N47	N47	N47	na	na

1. Select keyword

2. Select ICD-10 code

Example 2: To find an ICD-10 code for a 9 years old boy with diagnosis “Chickenpox”

Diagnosis Term	General	Cor		Pregnancy	Childbirth	Postpartum
Chickenpox	B01.9	P35.8	P35.8	O98.5	O98.5	O98.5
Chignon due to birth injury	na	na	P12.1	na	na	na
Chikungunya (hemorrhagic) fever	A92.0	na	A92.0	O98.5	O98.5	O98.5
Child abuse	T74.9	na	T74.9	na	na	na
Child psychosis nos	F84.0	na	na	na	na	na

1. Select
keyword

2. Select
ICD-10 code

Selection of ICD-10 code from section 2 : Neoplasm Table

Example 3: To find an ICD-10 code for a 45 years old woman with diagnosis “Cancer of right breast”

Diagnosis Term	Primary	Secondary	in Situ	Benign	Tumor, Unknown behaviour
Neoplasm brain NEC meninges	C70.0	C79.3	–	D32.0	D42.0
Neoplasm brain NEC s	C71.7			D33.1	D43.1
Neoplasm bronchial	C10.4		0	D10.5	D37.0
Neoplasm breast (connective tissue) (glandular tissue) (soft parts)	C50.9	C79.8	D05.9	D24	D48.6
Neoplasm breast (connective tissue) (glandular tissue) (soft parts) areola	C50.0	C79.8	D05.9	D24	D48.6

1. Select keyword

2. Select ICD-10 code

Example 4: To find an ICD-10 code for a 45 years old woman with diagnosis “Tumor of left tonsil”

Diagnosis Term	Secondary				Tumor, Unknown behaviour
	Primary		in Situ	Benign	
Neoplasm tongue tip	C02.1	C02.1		D10.1	D37.0
Neoplasm tongue to	C02.4	C02.4		D10.1	D37.0
Neoplasm tonsil	C09.9	C79.8	D00.0	D10.4	D37.0
Neoplasm tonsil fauces, faucial	C09.9	C79.8	D00.0	D10.4	D37.0
Neoplasm tonsil lingual	C02.4	C79.8	D00.0	D10.1	D37.0

1. Select
keyword

2. Select
ICD-10 code

Selection of ICD-10 code from section 2 : Table of Land Transport Accident

Example 5: To find an ICD-10 code for a 25 years old man with external causes of injury specified as “Motorcycle ride in collision with a bus”.

Table of land transport accident

In collision with or involved in:											
Pedestrian	Pedal Two-or or animal	Car cycle	Heavy three- wheeled motor	Other (automobile) pick-up truck	Railway transport vehicle or bus (coach)	Other motor vehicle including animal- drawn vehicle	Fixed or train or vehicle	Noncollision nonmotor vehicle	Other or stationary object	Other or transport accident	unspecified transport accident
Victim and mode of transport											
Pedestrian	V00.-	V01.-	V02.-	V03.-	V04.-	V09.-				V09.-	
Pedal cyclist	V10.-	V11.-	V12.-	V13.-	V14.-	V19.-				V19.-	
Motorcycle rider	V20.-	V21.-	V22.-	V23.-	V24.-	V29.-	V25.-	V26.-	V27.-	V28.-	V29.-
Occupant of:											
- three-wheeled motor vehicle	V30.-	V31.-	V32.-	V33.-	V34.-	V39.-		V36.-	V37.-	V38.-	V39.-
- car (automobile)	V40.-	V41.-	V42.-	V43.-	V44.-					V48.-	V49.-
- pick-up truck or van	V50.-	V51.-	V52.-	V53.-	V54.-	V59.-	V55.-	V56.-	V57.-	V58.-	V59.-

1. Select patient mode of transport

2. Select in collision with “bus”

3. Select ICD-10 code V24.-

Selection of ICD-10 code from section 3 : External cause of injury

Example 6: To find an ICD-10 code for a 14 years old boy with external causes of injury specified as “Fall from a tree”.

External Cause of Injury

Fall, falling (accidental) from, off train	ing or alighting	ICD10
Fall, falling (accidental) from, off tree		V81.4
Fall, falling (accidental) from, off turret		W14.-
Fall, falling (accidental) from, off vehicle (in motion) NEC (see also Accident, transport)		W13.-
		V89.9

1. Select
keyword

2. Select
ICD-10 code

Example 7: To find an ICD-10 code for a 13 years old girl with external causes of injury specified as “Dog bite”.

External Cause of Injury

- Bite, bitten by cobra
- Bite, bitten by crocodile
- Bite, bitten by dog
- Bite, bitten by fer de lance

1. Select
keyword

2. Select
ICD-10 code

ICD10
X20.-
W58.-
W54.-
X20.-

Selection of ICD-10 code from section 4 : Table of Drugs and Chemicals

Example 8: To find an ICD-10 code for a 25 years old woman with diagnosis word “Diazepam poisoning” and external causes of injury specified as “Attempt suicide”.

therapeutic Substance	Poisoning			Adverse effect in use	
	Chapter XIX	Accidental	Intentional self-harm		Undetermined intent
Dextrose	T50.3	X44.-	X64.-	Y14.-	Y54.6
– concentrated solution, intravenous	T46.8	X44.-	X64.-	Y14.-	Y52.8
Dextrothyroxine sodium	T38.1	X44.-	X64.-	Y14.-	Y42.1
Dialysis solution (intraperitoneal)	T50.3	X44.-	X64.-	Y14.-	Y54.6
Diazepam	T42.4	X41.-	X61.-	Y11.-	Y47.1
Diazoxide	T46.5	X44.-	X64.-	Y14.-	Y52.8
Diclofenac	T39.3				
– vapor	T52.4				

1. Select
keyword

2. Select
ICD-10 code
for morbidity
condition

3. Select ICD-10
code for cause of
poisoning or
mortality

Limitations of the APN ICD-10 Simplified Version

1. The newly designed coding processes eliminate the volume 1 code validating process. Although the restructure index provide most information for this process so the coder could get most of the information to validate the code already, volume 1 checking could be done in a case which need high accuracy ICD-10 code.
2. The APN ICD-10 Simplified version will provide ICD-10 codes up to 4th characters for all diseases and 3rd character for external causes of injury. If the user need more characters, he or she must have to find it in volume 1 of the ICD-10.

Limitations of the APN ICD-10 Simplified Version

3. Dagger and asterisk system was removed from the APN ICD-10 Simplified version. The ICD-10 codes shown as asterisk codes in the previous version will disappear from this version.
4. Diagnosis terms in section 1 are collected from the primary care units which usually treat only the OPD (out patient department) type of patient. So this version is not suitable to find ICD-10 code for the IPD (in patient department) type of patient.