

# ICD-10-AM Classification for Morbidity Coding

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# Morbidity Coding

- Facts and figures
  - ICD-9 – ICD-9-CM-A II
  - ICD-10 – ICD-10-AM 1st, 2nd, 3rd and 6th
- Clinical coding in New Zealand
  - Exercise
  - Examples
- Classification changes
- Data quality

# Facts and Figures



1969 – ICD-8

1980 – ICD-9

1988 – ICD-9-CM

1995 – ICD-9-CM-A

1999 – ICD-10-AM 1st

2001 – ICD-10-AM 2nd

2004 – ICD-10-AM 3rd

2008 – ICD-10-AM 6th

# ICD-9 vs ICD-9-CM

**ICD-9** World Health Organization (WHO)  
International **C**lassification of **D**iseases – Ninth  
Revision

- Classify morbidity and causes of death

**ICD-9-CM** (Clinical Modification) – American  
More detail and included procedure classification  
Three volume set

- Disease - Tabular list (1) and Alphabetic index (2)
- Procedure - Tabular list and Alphabetic index (3)

Implemented in New Zealand 1 July 1988

# ICD-9-CM-A

## ICD-9-CM-A (Australian version)

Included a fourth volume

- The Australian Coding Standards

Australian english spelling

Addition of fifth characters, new codes

1st Edition – implemented 1 July 1995

2nd Edition – implemented 1 July 1996

Clinical code system = 06

- Total codes 21,593

New section for activity E889.-

## E889 Type of sporting activity

The following codes **must** be assigned as additional codes with E886.0 *Fall on same level from collision, pushing, or shoving, by or with other person in sport and E917.0 Striking against or struck accidentally by objects or persons, in sports* to indicate the sporting activity of the injured person at the time the event occurred. This category **may also** be used with other external cause codes as appropriate. This category should not be confused with, or be used instead of, the place of occurrence category E849. To ensure consistency for sports injury surveillance data, codes E889.0–E889.8 should **not** be assigned for sports which are similar to those listed in those categories, e.g. tennis, although those similar to squash should be assigned code E889.9.

☆☆ E889.0 **Football, Rugby**  
League Union

☆☆ E889.1 **Football, Australian**

☆☆ E889.2 **Football, Soccer**

☆☆ E889.3 **Hockey**  
Field hockey

Excludes: ice hockey (E889.9)

☆☆ E889.4 **Squash**

☆☆ E889.5 **Basketball**

☆☆ E889.6 **Netball**

☆☆ E889.7 **Cricket**

☆☆ E889.8 **Roller blading**  
Roller skating Skateboarding

☆☆ E889.9 **Other and unspecified sporting activity**



# ICD-10 vs ICD-10-AM

## ICD-10

World Health Organization (WHO) 1989

Disease classification only

Alphanumeric

Three volume



# ICD-10-AM 1st Edition

Australian Modification (based on ICD-10)

Five volume set

Procedure code increased to seven characters

Block convention

Place of occurrence – 4th character

Activity – 5th character

Implemented in New Zealand 1 July 1999

- Australia 1 July 1998

Clinical code system = 10

- Total codes – 40,701

# ICD-10-AM 2nd Edition

Implemented in New Zealand 1 July 2001

- Australia 1 July 2000

Created unique codes for:

- Place of occurrence (Y92.-)
- Activity (Y93.-)

Clinical code system = 11

- Total codes – 20,731



# ICD-10-AM 3rd Edition

Implemented in New Zealand 1 July 2004

- Australia 1 July 2002

## Activity – U category

- U50-U72 While engaged in sports or leisure
- U73 While engaged in other activity

Clinical code system = 12

- Total codes – 22,617



# ICD-10-AM 6th Edition

Implemented in New Zealand 1 July 2008

- Australia 1 July 2008

## Reference change

- No longer referred to as volumes
- ICD-10-AM – Classification of Diseases
- ACHI – Australian Classification of Health Interventions
- ACS – Australian Coding Standards

Clinical code system = 13

- Total codes – 23,321



# Summary of Codes

	6th	3rd	2nd	1st	9-CMAII
<b>Total</b>	23,321	22,617	20,731	40,701	21,593
<b>S – T</b> (Injury)	1,788	1,784	1,783	1,789	2,405 (800-999)
<b>Ext</b> (Accident)	3,090 (U-Y98)	2,896 (U-Y98)	1,418 (V01-Y98)	21,066 (V01-Y98)	5,891 (E800-E999)
<b>POO</b>	60	52	12	10 char	E849.--
<b>Activity</b>	240	236	16	7 char	E889.--

# Reporting

## ICD-9-CM

- Total of 3 diagnoses and 3 procedures each
- Free text in Patient Management System

## ICD-9-CM-A 1995

- Total combination of 25 diagnoses and procedures
- 3M Codefinder – interfaced with PMS
- Decrease in free text on code descriptions

## 1 July 1998

- Total combination of 99 diagnoses and procedures

# Morbidity Coding in New Zealand Public Hospitals



## How many

- DHBs
- Hospitals
- Coders



## Average discharges

- ~200 – ~10,000 per month  
(inpatients and day patients)



# Clinical Coders

How many per hospital

➤ 1 – 30

Background

- Workforce
- Training
- Qualifications



# Clinical Coding Process

Patient is discharged from  
hospital facility



Completes discharge summary

# Clinical Coding Process



‘The responsibility for recording accurate diagnoses and procedures, in particular principal diagnosis, lies with the clinician, not the clinical coder’



Sent to clinical coding –  
sorted and stored

# Clinical Coding Process

The main aim of coding is:

To translate medical statements into code

Clinical coders have to ensure the clinical record content justifies the assignment of diagnoses and procedures

# Clinical Coding Process

Clinical coder reviews all documents for the episode of care

- Entire clinical record
- Discharge summary
- Ambulance, ED notes, ACC45, referral
- Clinical notes (clinician, nurse, other disciplines)
- Operation reports – medical/surgical
- Laboratory results
- Radiology reports
- Clinical letters

# Clinical Coding Process

Clinical coder extracts and confirms diagnoses, procedures and external cause

1 – 99 codes can be assigned

Consult clinician to confirm

- Inconsistent or ambiguous documentation
- Investigations/results



# ICD-10-AM ACHI ACS eBook

INTERACTIVE ELECTRONIC MANUAL

## The Good Clinical Documentation Guide

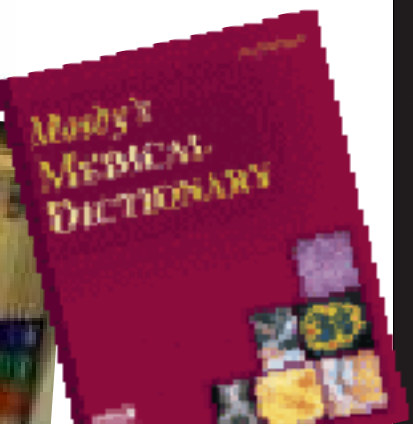


NAME: \_\_\_\_\_ LOCATION: \_\_\_\_\_ LAB NO: 305  
 SEX: M AGE: 88365 DOCTOR: \_\_\_\_\_ IDEE: 0000365  
 PID: \_\_\_\_\_ COLLECTION DATE/TIME: \_\_\_\_\_  
 COMMENTS: \_\_\_\_\_ REPORT DATE/TIME: \_\_\_\_\_  
 29/07/97 10:00  
 29/07/97 16:02:20

SAMPLE TYPE: SERUM

CHEMISTRY	RESULTS	NORMAL	ABNORMAL	UNITS	NORMAL RANGE
Sodium			135.0	MMOL/L	(136.0 - 149.0)
Potassium	4.48			MMOL/L	(3.70 - 5.10)
Urea	5.0			MMOL/L	(2.5 - 7.5)
Creatinine	87			UMOL/L	(60 - 105)
Glucose	4.3			MMOL/L	(3.6 - 5.0)
Total Calcium	2.32			MMOL/L	(2.23 - 2.56)
Inorganic Phosphate	1.21			MMOL/L	(0.88 - 1.45)
CREATINE KINASE	101			U/L	(10 - 200)
Lactate Dehydrogenase		204		U/L	(70 - 183)
Aspartate Amino Transferase	20			U/L	(13 - 42)
Total Bilirubin	10			UMOL/L	(5 - 17)
Alkaline Phosphatase	107		97	U/L	(39 - 117)
Gamma GT				U/L	(10 - 40)
Guanine Amino Transferase	17			U/L	(10 - 35)
Total Protein	66			g/L	(60 - 80)
Albumin	40			g/L	(35 - 47)
Uric Acid	248			UMOL/L	(180 - 420)
Magnesium	0.88			MMOL/L	(0.88 - 1.00)
Cholesterol	2.9			MMOL/L	(4.0 - 5.7)
Triglyceride		4.01		MMOL/L	(0.80 - 2.00)
Amylase	42			U/L	(22 - 100)
Acid Phosphatase (total)	5.1			U/L	(2.0 - 11.0)
Acid Phosphatase (Tart. Res.)	2.2			U/L	(2.0 - 7.0)

REVIEW BY: \_\_\_\_\_



3M Codefinder

File View Options Reference Help

Reference Main Page Ctrl + R

ICD-10-AM Tabular List of Diagnosis

ICD-10-AM Tabular List of Procedures ACHI

ICD-10-AM Australian Coding Standards Summary

Coding Matters (10-AM Commandments)

ICD-10-AM Principal Australian Refined Diagnosis Related Groups

1. @ J350 Chronic tonsillitis

ICD-10-AM Principal Procedure

1. 4178901 [412] Tonsillectomy with adenoidectomy

ICD-10-AM Other Procedures

2. @ 9251419 [1910] General anaesthesia, a normal healthy patient, non-emergency or not known

Contact Us

Add Diagnosis

Add Procedure

Direct Code

Compute DRG

Grouping Options

Next Patient

NUM 5:04 PM

**coding matters**

ICD-10-AM, ACHI and ACS Seventh Edition Forecast

You are now among the first stages of preparation for the publication of ICD-10-AM, ACHI and ACS 7th Edition. The Search Edition includes extensive input from clinicians, public health and management, and includes changes from the International Classification of Diseases (ICD-10) and the Australian Health Care Classification (AHCC). Public comment on changes to ICD-10-AM, ACHI and ACS is invited. The public comment period is open until 31 October 2007. The public comment period is open until 31 October 2007. The public comment period is open until 31 October 2007.

ICD-10-AM  
TABULAR LIST

ICD-10-AM  
ALPHABETIC LIST

ACHI  
TABULAR LIST

ACHI  
ALPHABETIC LIST

ACS  
AUSTRALIAN CODING STANDARDS



# Clinical Coding Process

Clinical coder searches and assigns  
ICD-10-AM/ACHI codes

- 3M Codefinder
- eBook
- Manuals

Apply appropriate coding standards  
conventions and sequencing guidelines

# ACS – Coding Standards

## Injury, Poisoning and Certain Other Consequences of External Cause

### External Causes of Morbidity

- 2001 External cause code use and sequencing
- 2004 Allergic reaction NOS
- 2005 Poisonings & injuries – indication of intent
- 2008 Perpetrator of assault, abuse and neglect
- 2009 Mode of pedestrian conveyance
- 1901 Poisoning
- 1902 Adverse effects
- 1903 Two or more drugs taken in combination
- 1904 Procedural complications
- 1905 Closed head injury/LOC/concussion
- 1906 Current and old injuries
- 1907 Multiple injuries
- 1908 Laceration with nerve and tendon damage
- 1909 Adult and child abuse
- 1910 Skin loss
- 1911 Burns
- 1912 Sequelae of injuries, poisoning...
- 1914 Degloving injury
- 1915 Spinal (cord) injury
- 1916 Superficial injuries
- 1917 Open wounds
- 1918 Fracture and dislocation
- 1919 Open intracranial injury
- 1920 Open intrathoracic/intra-abdominal injury
- 1921 Sprains and strains
- 1922 Crushing injury
- 1923 Contact with venomous/nonvenomous

# Sequencing Severity of Injury

Skull fracture with intracranial injury

Internal injuries

Fractures (including skull # w/o intracranial injury)

Burns (full and partial thickness)

Concussion

Crush Injury

Shock

Open wounds and lacerations

Dislocation

Sprains

Contusions

Superficial injuries, abrasions, erythema burns









# Clinical Coding Process

Clinical coder completes coding process

- Select event in PMS
- Verify event data
- Enter additional information
  - ▲ ACC45, vent/NIV/ICU hours, admission weight
- Activate 3M Codefinder
  - ▲ Pathway or direct code entry (1 – 99 codes)
- Free text code descriptions
- Add external cause and procedure dates

**3M™ Codefinder™**

File View Options Reference Help

**3M Patient Code Summary**

**New Zealand (AR) DRG, PCCL, and MDC Information**

**X60C Injuries Age<65**  
 NZwgt 0.49 Alos 1.5 Lt 0 Ht 5 Sdwt 0.21 ODwt 0.49 Hioutl\_wt 0.26

**0 PCCL 0 - SDX is not a CC, or is included in ADRG definition, or is excluded**

**021 Injuries, Poisonings & Toxic Effects of Drugs**

**- Additional DRG Information**

DRG Version: 5.0  
 ICD-10-AM Edition: 6th  
 Date of Admission: 24/08/2010  
 Date of Separation: 24/08/2010  
 Length of Stay: 1  
 Same Day Status: Same Day  
 Sex: Male  
 Age: 53  
 Separation Mode: Home/Other (9)  
 Admission Weight: n/a  
 Mental Health Legal Status: n/a




**+ Estimated WIES -- New Zealand**

WIES Score: 0.2055

**ICD-10-AM Principal Diagnosis**

1. **S899 ~Injury of L knee - pain**  
 DRG

**ICD-10-AM Additional Diagnoses**

2. **S399 ~Injury of back - pain**  
 3.  **W11 ~Fall from ladder 24/08/2010**  
 4.  **Y9201 ~Outside of house**  
 5.  **U731 ~Injury occurring while painting exterior of house**

# Clinical Coding Process

Clinical coder completes coding in PMS

- Check DRG
- Final check
- Print coding sheet and file in clinical record
  - ▲ Not all coding units do this

Print Date : Tue Aug 24 11:40:26 2010  
Gender : Male  
Age : 53  
Separation : Home/Other (9)  
Admit Date : 24/08/2010  
LOS : 1  
Separ Date : 24/08/2010

**DRG**

**X60C** Injuries Age<65

NZwgt 0.49 Alos 1.5 Lt 0 Ht 5 Sdwt 0.21 ODwt 0.49 Hioutl\_wt 0.26

**PCCL**

**0** PCCL 0 - SDX is not a CC, or is included in ADRG definition, or is excluded

**MDC**

**021** Injuries, Poisonings & Toxic Effects of Drugs

**ICD-10-AM Principal Diagnosis**

**S899** ~Injury of L knee - pain  
DRG

**ICD-10-AM Additional Diagnoses**

**S399** ~Injury of back - pain  
**W11** ~Fall from ladder 24/08/2010  
**Y9201** ~Outside of house  
**U731** ~Injury occurring while painting exterior of house

Please review the coding listed above to ensure the diagnoses and procedures accurately reflect the episode of care.

If you have any concerns with the coding please contact the coding unit otherwise please sign in the space provided below to verify the coding.

\_\_\_\_\_  
Clinician's Signature

\_\_\_\_\_  
Date

# Reporting to NMDS

Hospital provides NMDS batch file

- NMDS file specification
- Daily
- Weekly
- Fortnightly
- Monthly

NMDS load process

# Challenges for Clinical Coders

- Clinician hand writing
- Inconsistent/inadequate documentation
- Applying standards/conventions
- Communication with clinicians
- End of month deadlines
  - DHB/MoH
- Keeping up to date with new treatments/surgery
- MoH requirements – targets/measures
- Internal hospital processes – event information
- Patient Management Systems (PMS)

# Challenges for Clinical Coders

## Pressures to perform other activities

- Train new clinical coders
- Educate clinical/administration staff
- Attend training/education
- PMS testing
- Action NMDS error reports
- Data quality activities
- Clinician audits
- Audit

# Injury Coding



# Case Exercise



# Case Exercise – 6th Edition

- S099      *Unspecified injury of head*  
*Closed head injury*
- W066      *Fall involving conventional bed*  
*Fell off queen bed ?accidental or*  
*caused by sibling*
- Y9205      *Bedroom at home*
- U732      *Injury or poisoning occurring while*  
*resting, sleeping, eating or engaging in*  
*other vital activity*  
*Baby had bath lying on bed*

# 3rd Edition

S099 *Unspecified injury of head*

W06 *Fall involving bed*

Y9209 *Other and unspecified place in home*

U732 *Injury or poisoning occurring while resting, sleeping, eating or engaging in other vital activity*

# 2nd Edition

- S099 *Unspecified injury of head*
- W06 *Fall involving bed*
- Y920 *Other and unspecified place in home*
- Y934 *Injury or poisoning occurring while resting, sleeping, eating or engaging in other vital activity*

# 1st Edition

S099      *Unspecified injury of head*

W0604      *Fall involving bed, home, while  
resting, sleeping, eating or engaging  
in other vital activity*

4th Character – Place of occurrence

- Use with W00-Y34 except Y06 and Y07
- Total – 10 characters

5th Character – Activity

- Use V01-Y34
- Total – 7 characters

# ICD-9-CM-A II

85401

*Intracranial injury of other and unspecified nature, without mention of open intracranial wound, with no loss of consciousness*

88440

*Fall involving bed at home*

5th Character – Place of occurrence

➤ Total – 10 characters

# Summary

	<b>6th</b>	<b>3rd</b>	<b>2nd</b>	<b>1st</b>	<b>9-CMAII</b>
<b>Diagnosis</b>	S099	S099	S099	S099	85401
<b>Accident</b>	W066	W06	W06	W0604	88440
<b>POO</b>	Y9205	Y9209	Y920		
<b>Activity</b>	U732	U732	Y934		

# Coding Examples

Submitted Diagnosis Records			
Type	Clinical Code	Date	
A	13 B S022		Fracture of nasal bones; bilateral;non-displaced
B	13 B S6081		Deep graze of left 5th metacarpal
B	13 B S0081		Grazes to right side of face
B	13 B S5081		Grazes of right elbow
B	13 B S8081		Graze of right knee
E	13 E V184	09-01-2010	Pedal cyclist injured going downhill, braking &going over handle bars; traffic accident
E	13 E Y9240		Road
E	13 E U738		Riding bike while on way to bike shop to get gears on push bike fixed
O	13 O 5602200	09-01-2010	Computerised tomography of facial bone

Submitted Diagnosis Records			
Type	Clinical Code	Date	
A	13 B S0602		Loss of consciousness of brief duration [less than 30 minutes]
B	13 B S1095		Superficial injury of neck, part unspecified, contusion
B	13 B S299		chest wall pain
B	13 B S399		back pain
B	13 A F0400		Post traumatic amnesia, unspecified
E	13 E V8000	14-05-2010	Rider of horse thrown,no helmet being worn,unwitnessed fall
E	13 E Y927		Farm
E	13 E U731		rounding up bulls

# Coding Examples

Submitted Diagnosis Records			
Type	Clinical Code	Date	
A	13 B S7310		(L) HIP SPRAIN
B	13 B S9340		(R) ANKLE SPRAIN
E	13 E V2709	23-04-2010	HIT BUMP WHILST RACING MOTORCYCLE AT 150 KPH
E	13 E Y9233	23-04-2010	RUAPUNA RACEWAY
E	13 E U738	23-04-2010	MOTORCYCLE RACING
O	13 D 5622100	23-04-2010	COMPUTERISED TOMOGRAPHY OF SPINE, THORACIC REGION
O	13 D 9555003	24-04-2010	ALLIED HEALTH INTERVENTION, PHYSIOTHERAPY

Submitted Diagnosis Records			
Type	Clinical Code	Date	
A	13 B S7211		Fracture of intertrochanteric section of R) femur
B	13 A E876		Hypokalaemia
E	13 E V971	27-04-2010	Fall down steps when alighting from aircraft
E	13 E Y9258	27-04-2010	Place of occurrence at Invercargill Airport
E	13 E U739	27-04-2010	Injury occurring while engaged in unspecified activity
O	13 D 4751900	28-04-2010	[1479] Internal fixation of fracture of trochanteric R) femur
O	13 D 9251529	28-04-2010	Sedation, ASA 29
O	13 D 9250829	28-04-2010	Neuraxial block, ASA 29

# Coding Examples

Submitted Diagnosis Records			
Type	Clinical Code	Date	Description
A	13 Y Z509		CARE INVOLVING USE OF REHABILITATION
B	13 B S4221		FRACTURE OF HEAD OF R) HUMERUS
B	13 B S4303		INFERIOR DISLOCATION OF R) HUMERUS
B	13 B S4223		FRACTURE OF ANATOMICAL NECK OF HUMERUS R) + L)
B	13 B S4224		FRACTURE OF GREATER TUBEROSITY OF HUMERUS L)
B	13 B S4229		FRACTURE OF LESSER TUBEROSITY L) HUMERUS
B	13 A G4732		OBSTRUCTIVE SLEEP APNOEA
B	13 Y Z720		TOBACCO USE, CURRENT.
B	13 Y Z716		COUNSELLING FOR TOBACCO USE
E	13 E V4849	29-03-2010	INJURED WHILE TRYING TO GET INTO RUNAWAY CAR
E	13 E Y9200	29-03-2010	PLACE OF OCCURRENCE -DRIVEWAY TO HOME
E	13 E U738	29-03-2010	INJURY WHILE TRYING TO STOP CAR

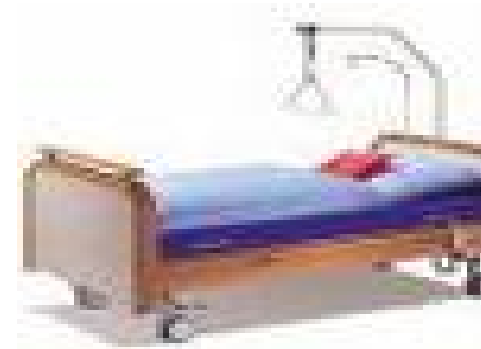
Submitted Diagnosis Records			
Type	Clinical Code	Date	Description
A	13 B S1095		Contusion neck ( R) side
B	13 B S700		Contusion of hips - bilat
B	13 B S202		Contusion of thorax (L) 2* Seat belt
B	13 A R000		Tachycardia, unspecifec
E	13 E V4760	08-06-2010	Back seat passenger in vehicle that skidded on ice , went off road, hit tree
E	13 E Y9240	08-06-2010	North Gates of Haast Bridge
E	13 E U738	08-06-2010	Injury travelling on holiday from Australia

# 6th Edition Classification Changes

- New codes
  - External cause of injury
  - Place of occurrence
  - Activity

# External Cause of Injury

## W06 *Fall involving bed*



# External Cause of Injury

*W07 Fall involving chair*



Fall, falling (accidental) W19

- from, off (*see also Fall, falling, involving*)

- - bed NEC W06.9

- - - bassinet W06.3

- - - bunk (middle) (top) NEC W06.0

- - - - bottom W06.6

- - - camp W06.8

- - - conventional W06.6

- - - cot W06.2

- - - cradle W06.4

- - - crib W06.2

- - - double NEC W06.6

- - - folding W06.8

- - - futon W06.8

- - - hammock (baby) W06.5

- - - hospital W06.1

- - - king NEC W06.6

- - - loft W06.8

- - - orthopaedic W06.1

- - - queen NEC W06.6

- - - single NEC W06.6

- - - sofa W06.8

- - - special purpose W06.1

- - - specified NEC W06.8

- - - stretcher W06.8

- - - waterbed W06.8

- - chair W07.9

- - - arm W07.8

- - - bath W07.5

- - - bench W07.8

- - - camp W07.1

- - - commode W07.6

- - - dining W07.8

- - - folding W07.1

- - - gliding W07.0

- - - high (on castors) W07.4

- - - kitchen W07.8

- - - lift assistance W07.7

- - - revolving (on castors) W07.2

- - - rocking W07.0

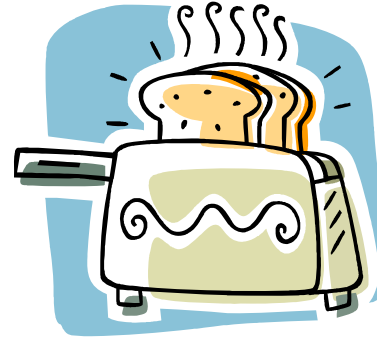
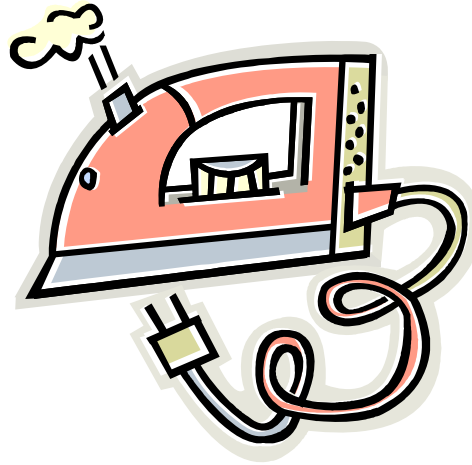
- - - shower W07.5

- - - Smoky Dawson W07.7

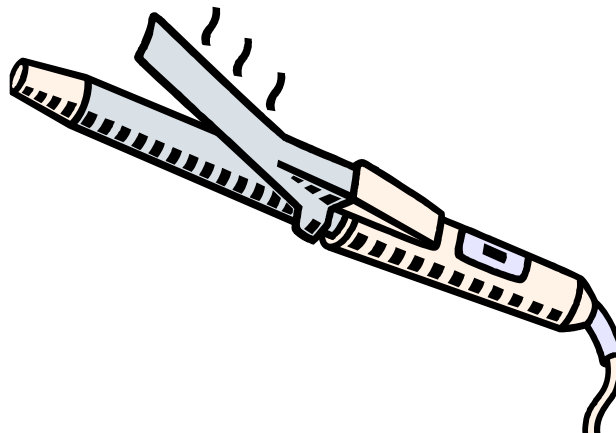
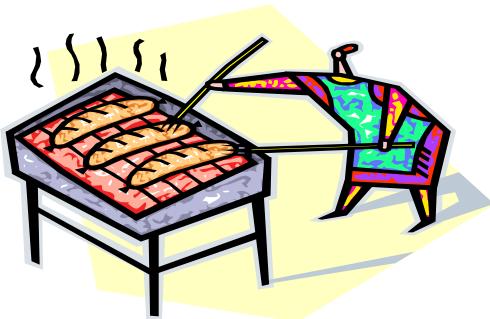
- - - specified NEC W07.2

- - - swivel (on castors) W07.2

# External Cause of Injury



*X15 Contact with hot household appliances*



# External Cause of Injury

## New codes

*V00 Pedestrian injured in collision with pedestrian conveyance*

- Fourth character subdivision identifies whether the accident was:
  - .0 Nontraffic accident
  - .1 Traffic accident
  - .9 Unspecified whether traffic or nontraffic
- Fifth character subdivision identifies the **mode** of pedestrian conveyance used by the **counterpart** at the time of the injury

# External Cause of Injury

## Example

Mother pushing stroller on the footpath injured when struck by a person on a skate board

V00.12

*Pedestrian injured in collision with pedestrian conveyance, traffic accident, skateboard*



## V00 Pedestrian injured in collision with pedestrian conveyance

The following fifth character subdivisions are for use with V00 to identify the mode of pedestrian conveyance used by the counterpart at the time of the accident:

- ⊗ 0 Unspecified pedestrian conveyance
- ⊗ 1 On foot
- ⊗ 2 Skateboard
- ⊗ 3 Roller-skates
- ⊗ 4 Scooter, powered  
Gopher
- ⊗ 5 Scooter, nonpowered
- ⊗ 6 Wheelchair, powered  
Electric wheelchair
- ⊗ 7 Wheelchair, nonpowered  
Wheelchair NOS
- ⊗ 8 Baby carriage  
Fram  
Pusher  
Stroller
- ⊗ 9 Other specified pedestrian conveyance

**5th character identifies the mode of pedestrian conveyance used by the counterpart at the time of the accident**

⊗V00.0 Pedestrian injured in collision with pedestrian conveyance, nontraffic accident

⊗V00.1 Pedestrian injured in collision with pedestrian conveyance, traffic accident

**4th character identifies if the accident was the result of a traffic, nontraffic or unspecified accident**

# Place of Occurrence

New codes place of occurrence at home

- Y92.00 *Driveway to home*
- Y92.01 *Outdoor areas (garden, tennis court)*
- Y92.02 *Garage (carport, shed)*
- Y92.03 *Bathroom (toilet)*
- Y92.04 *Kitchen*
- Y92.05 *Bedroom*
- Y92.06 *Laundry*
- Y92.07 *Indoor living areas, nec*
- Y92.09 *Other and unspecified place in home*

# Activity

U54.60 *Water ski jumping*

U54.61 *Wake boarding*

➤ *Knee boarding*

U54.68 *Other specified water skiing*

➤ *Barefoot water skiing*

U54.69 *Water skiing, unspecified*

U63.31 *Horse racing*

➤ **Excludes:** *trotting and harness racing (U63.6)*

U63.32 *Hurdle racing*

A horse race in which artificial barriers in the form of hurdles, fences, etc, must be leaped

➤ **Excludes:** *steeplechase and cross-country eventing (U63.03)*

U66.5 *Land sailing*



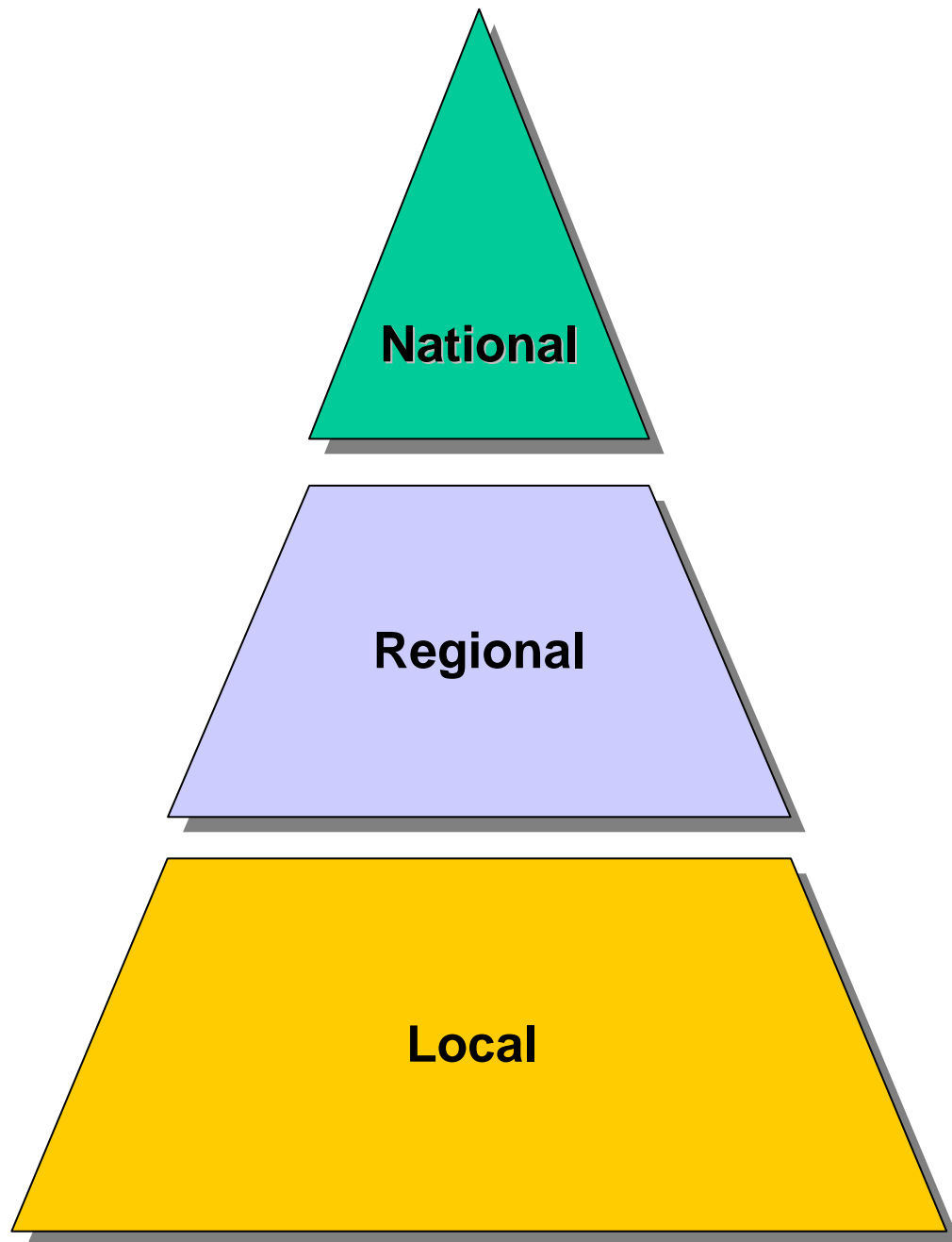
# Data Quality

## NZHIS Audit Team

- Perform DHB face to record audits
- Last external audit 2002/2003

## 2003 NZHIS Audit team was disestablished

- Focus changed
  - Monitoring/support/education/training



# Data Quality

## National – MoH



At a national level, this is best achieved using a broad coding quality analysis tool. An example is Performance Indicators for Coding Quality (PICQ) – this contains a series of pre-defined indicators that analyse admitted patient morbidity data coded with ICD-10-AM/ACHI and is based on Australian Coding Standards and coding conventions. PICQ identifies possible coding errors and is used on a national level to regularly monitor coding quality and identify areas where additional education and training may be required.

# Data Quality

## Regional – DHB



At the DHB Coding Unit level data quality responsibilities are managed using either data quality software or the traditional face-to-record audit process, or ideally a combination of both. The Australian Coding Benchmark Audit (ACBA) and PICQ are already used in some Coding Units. Both tools have been designed on the philosophy of continuous quality improvement and clinical coder education.

# Data Quality

## Local – Clinical Coder

At individual level all clinical coders, regardless of qualification and experience, benefit from having their work individually audited as a means of checking progress eg, peer reviews, clinician reviews, individual face to record audits and PICQ to identify specific problem areas and coding difficulties. Results can then be compared over time as a measure of success and ongoing competence and education.

# Questions?

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