

## ICD-10-Thai Modification Development in Thailand

Wansa Paoin MD.

## Background ICD-10 in Thailand

- 1994 Start ICD-10 in Morbidity and Mortality coding
- Distributed coding by coders in hospitals
- 1997 “New” codes appeared in data
- Hospital created their own code for some diseases ie. Necrotizing fasciitis, Dengue shock syndrome, Cobra and green pit viper bite etc.

## ICD-10-TM Development process

- 2000 ICD-10-TM research project team
- Central ICD coders, ICD trainers, Medical Specialists, Dentists

## Development process

1. Collect diseases reported as “no appropriate ICD codes”
2. Comprehensive review collected data and ICD codes available
3. Some diseases could be assigned to pre-existing ICD codes -> 386 diagnostic terms added into index, tabular list

## Development process

4. 1072 new codes add to existing chapter and old structure of ICD-10 for specific diseases without specific codes
5. Procedural coding systems created to be use in doctor-fee scheme
6. New coding system was named as ICD-10-TM(Thai Modification)

## Development process

7. Public hearing process
8. 2003 First set of ICD-10-TM books
  1. Tabular lists of diseases
  2. Alphabetical indexes
  3. Procedural coding system
  4. Index to procedures
  5. Standard coding guidelines

## Example of ICD-10-TM codes

A91.1	Dengue shock syndrome
O49	Preterm labour
J44.2	Wheezing associated respiratory illness(WARI)
T63.00	Hematotoxin snake poison
T63.01	Neurotoxin snake poison

## Pilot study

- 15 hospital all around the country
- 3 University hospitals
- 2 Tertiary hospital
- 8 General hospital
- 2 Private hospital

## Preliminary result

- 5-10% of ICD codes in morbidity data are ICD-10-TM codes
- Some of new codes can be used to discriminated high cost diseases ie. Necrotizing fasciitis, Dengue shock syndrome, Premature contraction of uterus without labour
- New codes add in 2006, ICD-10-TM 2<sup>nd</sup> edition

## Discussion

- Major driven factor for modifying ICD-10 was unavailability of original ICD codes for specific diseases commonly found in Thailand
- Modification mechanism is essential to supply new codes to be use in health data
- Any modified code or modifying process should not deviated from original ICD