

HOOLLAB

# Introduction to a Tool for Simplified ICD

Associate Professor and PhD. Ming YU

Tsinghua University

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# Content

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 Requirement

 Milestones

 Function and Demo

 Features

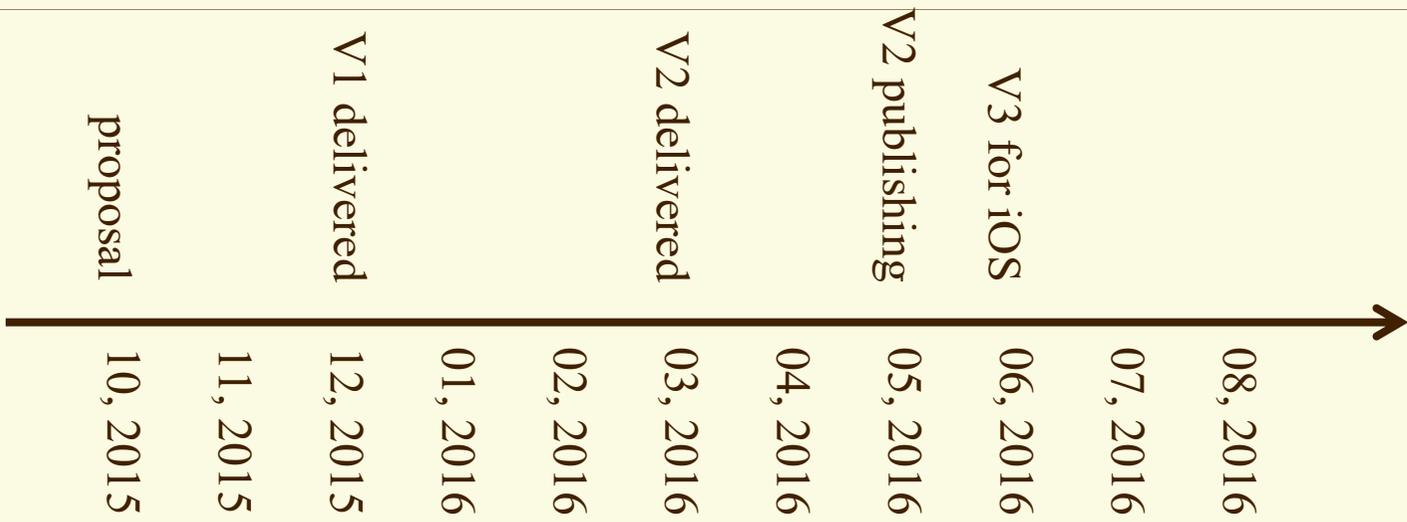
 Plan of Future

# Requirement

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1. Required by Mr. Wansa during last WHO-FIC annual conference in Manchester;
2. To develop a simple, easy-use and mobile coding system for Cambodia primary care
3. Before last December

# Milestones



V1: Diseases only, for Android

V2: 4 function, for Android

V3: 4 function, for iOS

# Features

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- 📄 A C/S structure APP
- 📄 For both android and iOS
- 📄 Easy to use, just enter the keyword of diagnosis;
- 📄 Easy to maintain
- 📄 Note for updating and downloading

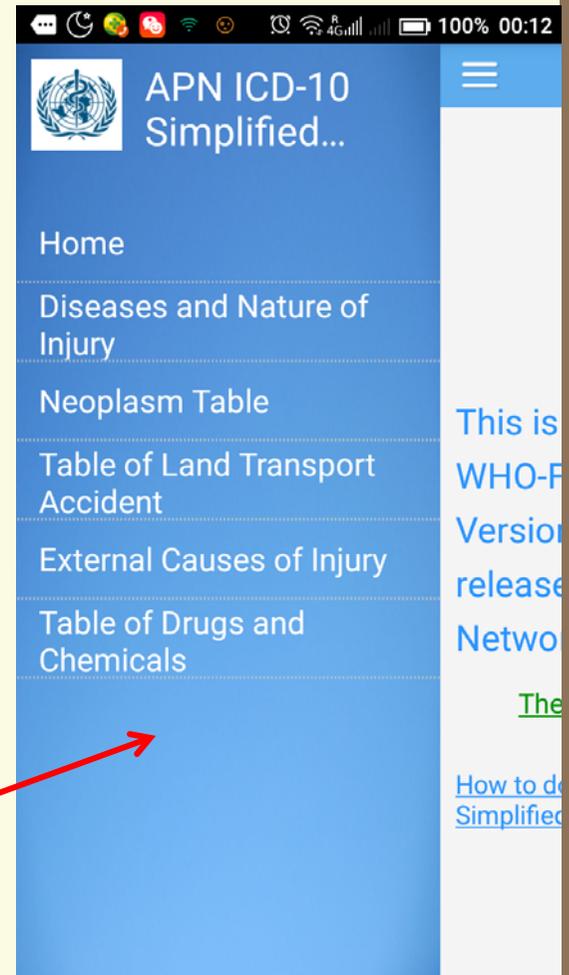
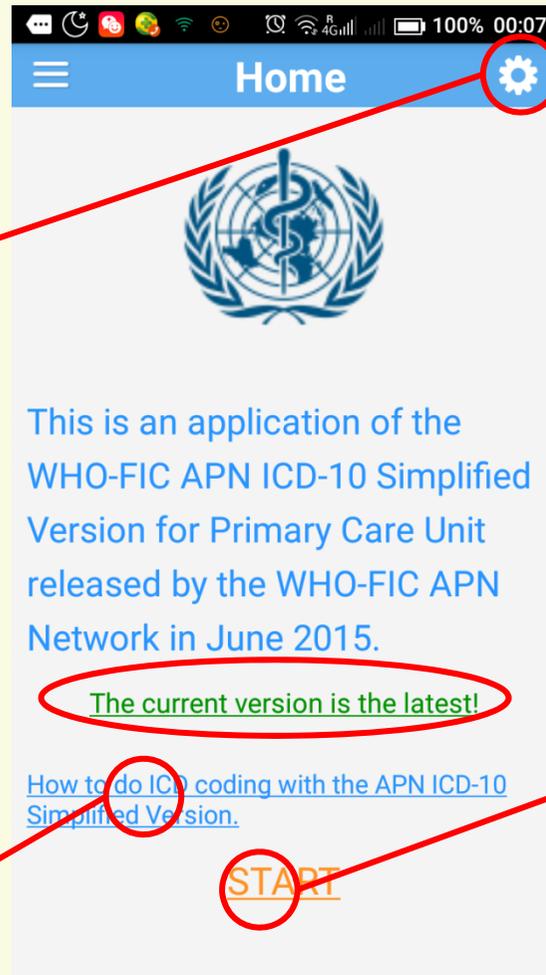
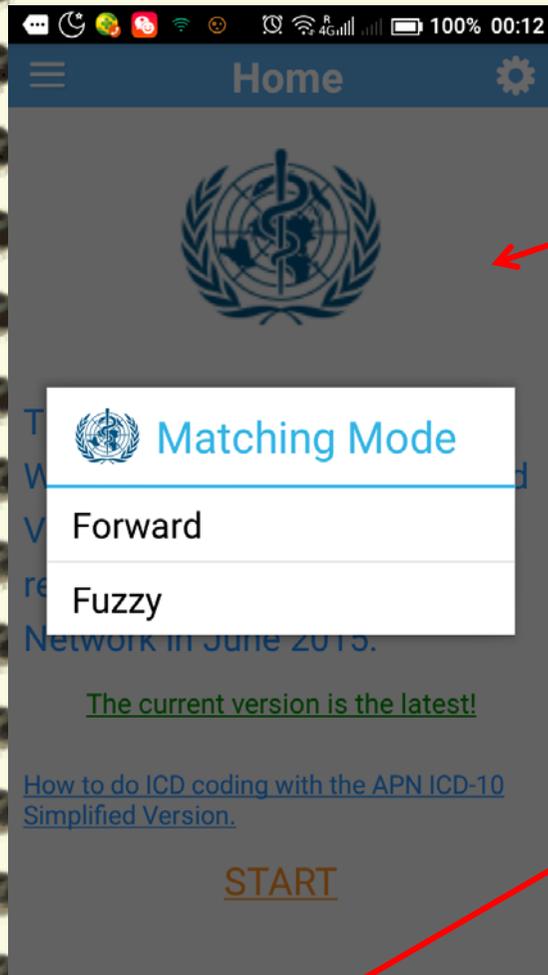
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[http://123.56.66.66:8001/SICD-release\\_server.apk](http://123.56.66.66:8001/SICD-release_server.apk)



# Function and Demo

[\\_http://123.56.66.66:8001/SICD-release\\_server.apk](http://123.56.66.66:8001/SICD-release_server.apk)





Demo

☰ Diseases and Natu...

🔍 Plummer disea

General

Congenital

Perinatal Neonar

Pregnancy

Childbirth

Postpartum

☰ Neoplasm Table

🔍 Neoplasm bre

Primary

Secondary

insitu

benign

tumor

☰ Table of Land...

🔍 Occupant of bu

▶ Pedestrian or anima  
V70.-

▶ Pedal cycle  
V71.-

▶ Two or Tree wheel  
V72.-

▶ Car(automobile) pic  
van  
V73.-

▶ Heavy transport veh  
bus(coach)  
V74.-

▶ other motor vehicle  
V79.-

▶ Railway train or vehi

▶ Other nonmotor veh  
animal drawn vehicl

▶ Fixed or stationary c  
▶ Noncollision transp

☰ External Causes of...

🔍 Misadventure(

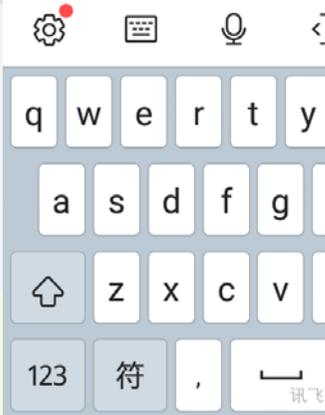
▶ External Cause  
Misadventure(s) to  
during surgical or m  
contaminated medi  
substance (blood, d  
administered (by) s  
NEC

▶ ICD 10  
Y64.8

☰ Tables of Drugs an...

🔍 Pipazetate

Product	Pipazet
Poisoning	T48.3
Accident	X44.-
IntentionalSelfHarm	X64.-
UnknownIntent	Y14.-
AdvesreEffect	Y55.3



# Plan of Future

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- Published in Thailand or Cambodia to improve the system performance;
- Further development to be determined
- Developing a Chinese Version

# Introduction to HOOLLAB

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1. Healthcare Ontology Outline Lab.
2. Within the healthcare Service Research Center of Tsinghua University
3. Focus on the healthcare knowledge modeling and application
4. Topics researching:
  - ICD-10: Database, coding system
  - ICD-11
  - Ontology modeling for healthcare: UMLS , TCUMLS, SNOMED (ICD-11)
  - Transfer from ICD-10 to 11
  - Various applications based on the model

# HOOLLAB

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1. Healthcare Ontology Outline, Lab (医疗本体纲目):
2. 《本草纲目》 by 李时珍(1518—1593), a famous Chinese doctor
3. The delivery of ontology is an outline of healthcare knowledge,

# Research Topics

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1. ICD-10: Database, coding system (CAICD)
2. ICD-11 in terms of Chinese
3. Ontology modeling for healthcare: UMLS , TCUMLS, SNOMED (ICD-11)
4. Transfer from ICD-10 to 11
5. Various applications based on the model

# CAICD

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1. Computer Aided ICD
2. Supporting full process of ICD coding (index, verify, merge, start by determining the dominant and modifier terms);
3. With additional advanced functions;
4. Specially an automated coding function;
5. Used in training, coding operation in hospital,
6. An integrated platform with ICD, various Diagnosis-National-Standards, APN...

# Healthcare knowledge modeling

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1. Research on the structure of all related knowledges within healthcare;
2. Model: Periodic table of (chemical) elements  
More complicated in healthcare than only one axis of the number of electricity
3. Integrated modeling Techniques including
  - Ontology
  - Object-Oriented
  - Entity Relation
4. Application
  - CAICD
  - Healthcare forecasting
  - Risk management for indoor infect control
  - DRG

HOOLLAB

# Publication

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