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ICHI tool: a prototype system for ICHI development and maintenance

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> Poster Number WHO/CTS to insert

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Abstract For a modern classification, it is essential to have a web-based platform. Such a platform enables collaborative development, consistent maintenance, and easier and more effective reviewing and commenting, like those available for ICD11, ICD10 and ICF. Aim of the present poster is to describe a similar prototype platform that has been developed for ICHI too.

Introduction	Results	Conclusions
For a modern classification, it is essential to have a web-based		The presented platform is currently only a prototype, yet is usable.
platform. Such a platform enables	\bullet	Additional features to be added

collaborative development, consistent maintenance, and easier and more effective reviewing and commenting. The platform should include a number of basic features such as navigation and search functionality, user comment facility, entity creation and modification, as well as advanced features including linkage to other classifications and terminologies, and a URI-based API.

This is what in the last years has been developed for ICD10 and ICF (browsers and update platforms), and later ICD11 (iCat and Revision platform) (1). Aim of the present poster is to describe a similar prototype platform that has been developed for ICHI too.

ICHI <i>tool</i> ^{alpha}	🛎 Guest 👂 Comments 🔒 Login		
Q SEARCH	•		
BROWSER	^	ICHI code	ATA HH BO
Any \$		ICHI descriptor	Acupressure - head and neck
		Target	ATA: Head and neck
E - II - Functioning Interventions		Action	HH: Manual therapy
ALY LI AE: Direct/skeletal traction - spine		Means	B0: Acupressure
		Section	II - Functioning Interventions

been very useful for content review and revision.

The ICHItool currently has the following features:

Storage facility for all required information that makes up ICHI
Content box for code titles and to have fields for definition, includes, excludes, and code also notes

•Content box for axis titles and to have fields for definition, includes, and excludes-notes

Deletion/retiring of concepts capability
Access/password for limited users in the development period
Ability to download files to xls or txt
Ability to download either small sections, individual chapters or the whole of ICHI

Accessible to reviewers to enable commenting during the revision process
Format that will enable commenting, storage and revision of comments during the revision process.
Three user profiles access the system:
guest users may only browse and search ICHI entities,
registered users may also comment,
administrators can create and modify ICHI entities.

include:

Ability to 'attach' a comment to an entity being created/updated to provide reasons for the change
A change history record to see the changes to a concept over time
Ability to search includes and excludes notes and annotations, as well as code titles

Parameter field for addition of modifiers and qualifiers applicable to specific interventions
Ability to output to CTK Birch
Ability for an URI API system for automated access from other software programs

•A tool to be developed to allow terminology/ontology comparison with other classifications

•A linerarisation function to permit production of various subsets.

These additional features would allow the ICHItool to act as a production platform for ICHI development. Such a platform is urgently required as the scope of ICHI expands and additional reviewers need to be accommodated (there is little prospect of capacity being available to adapt iCAT for this purpose in the short term). To date, the resources to allow ICHItool to be developed as a production platform have not been available.

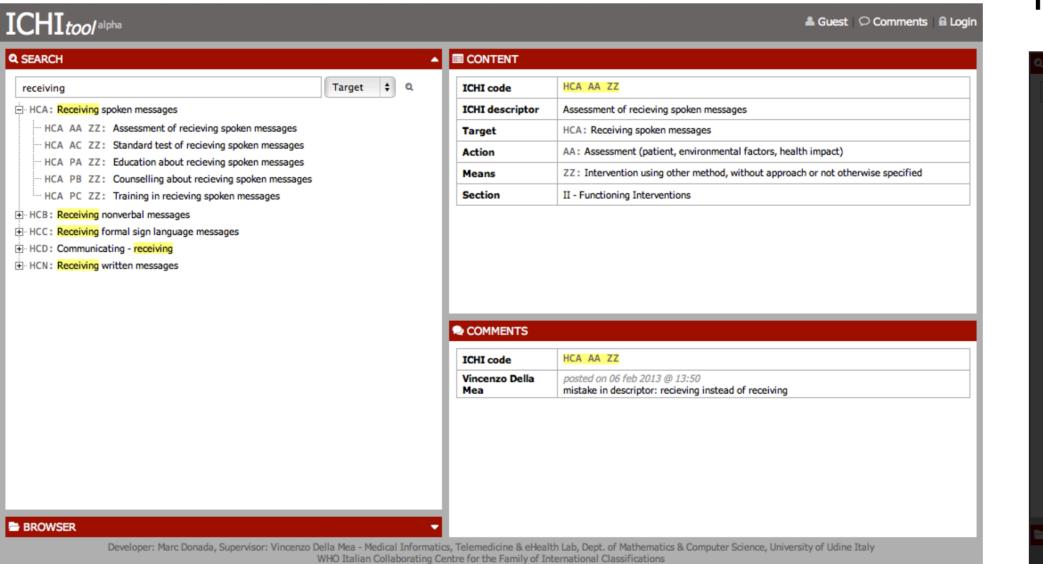


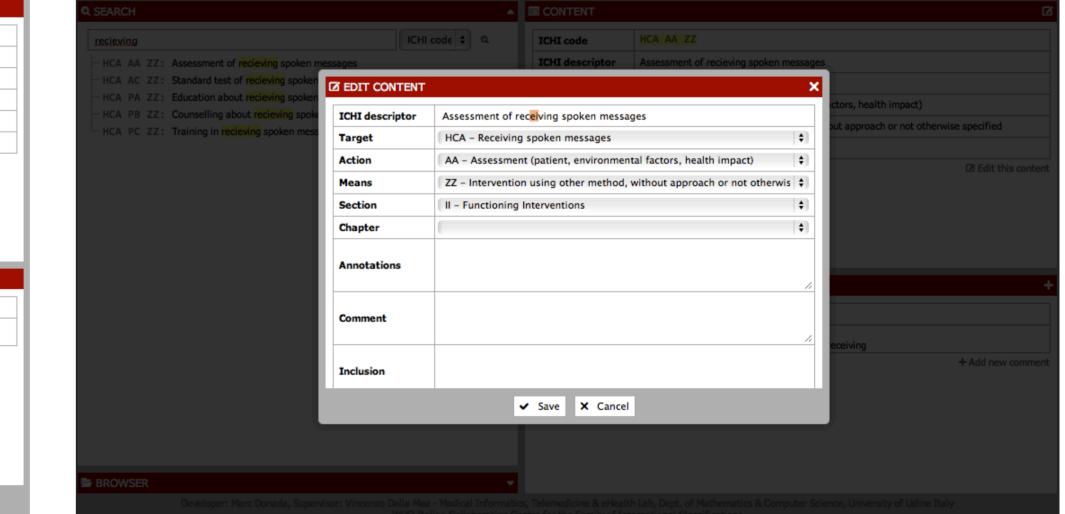
Methods & Materials

To experiment with above mentioned features in the case of ICHI, the Australian WHO-FIC Collaborating Centre developed a list of requirements for an ICHI platform, based on the already known experiences that are at the basis of ICD11.

The Italian WHO-FIC Collaborating Center translated this list into a working prototype.

Iterations have been made among





development team and ICHI management, including people from the Australian and German Collaborating centres, to ensure requirements were met.

CHI <i>tool</i> ^{alpha}		🛔 Guest 🖓 Comments 🔒 Login
SEARCH		
BROWSER	ICHI code	AAA AF AH
Combined Av.	ICHI descriptor	Electrophysiological measurement of brain
Combined Axe +	Target	AAA: Brain (Encephalon)
Target: AAA – Brain (Encephalon)	Action	AF: Mapping
Action: any value	+ Means	AH: External
Means: AH - External	Section	I - Medical and Surgical Interventions
··· AAA AF AH: Electrophysiological measurement of brain	Chapter	1 - Interventions on the Nervous System
AAA AF AH: Electrophysiological measurement of brain	Annotations	Electrocorticography; Electroencephalography (EEG); Mapping, brain; Mapping, cortical
	Exclusion	that with polysomnogram
	ICD9	89.14
	COMMENTS	
Developer: Marc Donada, Supervisor: Vincenzo Della Mea - Medical Info WHO Italian Collaborati	matics, Telemedicine & eHea ing Centre for the Family of 1	Ith Lab, Dept. of Mathematics & Computer Science, University of Udine Italy nternational Classifications

The platform, developed using PHP and MySQL, is hosted at the Medical Informatics Lab of the University of Udine, Italy, on a Linux Web server (2).

ADD NEW ITEM		×
ICHI descriptor	Change of beer brand	
Target	MAA – Alcohol use	(*)
Action	VI - Dietary modification	(\$)
Means	PI – Market based	\$
Section	II - Functioning Interventions	¢)
Chapter		(*)
Annotations		
Comment		
Inclusion		
	✓ Save X Cancel	

References

 Tudorache T. et al. Supporting the Collaborative Authoring of ICD-11 with WebProtégé. AMIA Annu Symp Proc. 2010 Nov 13;2010:802-6.
 ICHItool.

http://mitel.dimi.uniud.it/ichi/

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