

## International Classification of Functioning Disability and Health. Possibile strumento in Psicologia Clinica?

Con il patrocinio di

Società scientifica  
**sipsot**  
Società Italiana di Psicologia  
dei Servizi Ospedalieri e Territoriali

Ordine  
degli Psicologi  
della Lombardia

16.11.2018  
DALLE 8.30 ALLE 17.30

SALA MARCO BIAGI  
Palazzo Lombardia  
Piazza Città di Lombardia  
Milano

Sistema Socio Sanitario  
Regione Lombardia  
ASST Niguarda / Ovest Milanese

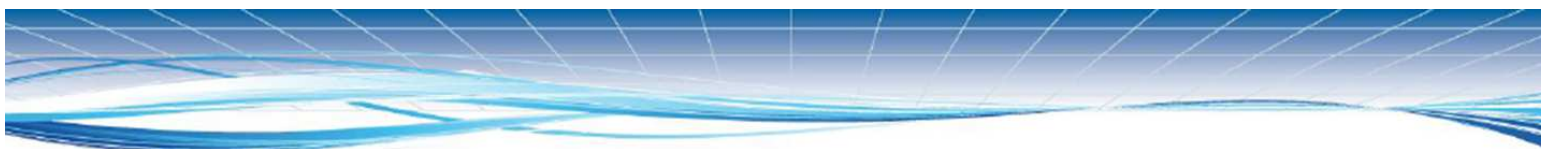


Istituti  
Clinici  
Scientifici  
Maugeri

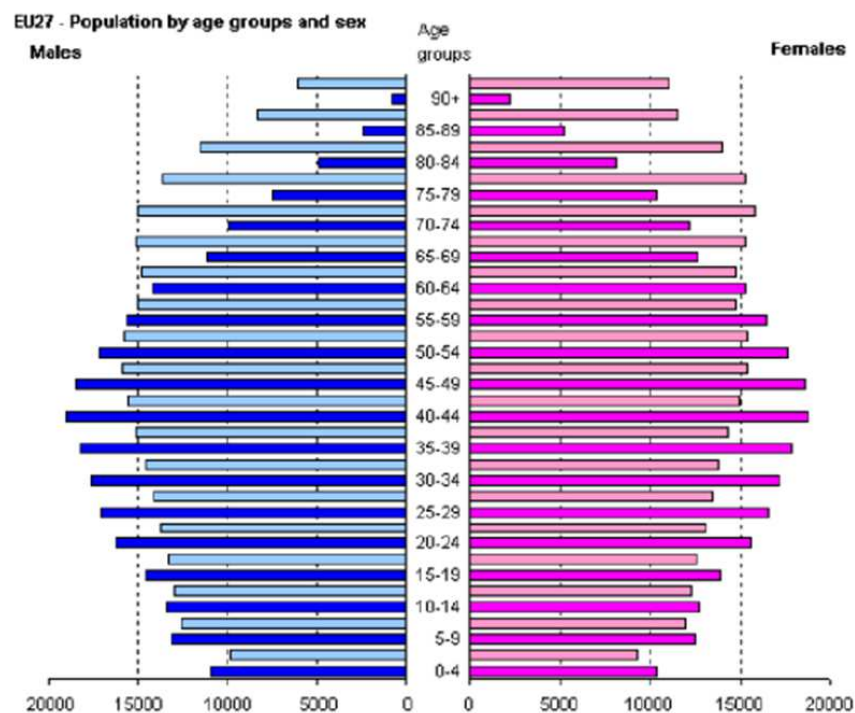
La Psicologia nel  
Sistema Sanitario  
Regionale:  
*Qualità ed Efficacia  
dei Servizi*



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## The challenge of health & social care in an ageing society



Population pyramid (thousands), EU-27, 2010 vs 2060  
Source: Eurostat, EUROPOP2010

- ↑ Long term health care conditions
- Healthy Life Years vs Life Expectancy
- ↑ Health inequalities
- ↓ Financial sustainability
- Adjustment of health professional profiles

2014 Italia – Aspettativa di vita a 65 anni: 21.6 anni per le donne, 18.1 per gli uomini

Life and health expectancies at age 65 based on activity limitation (Healthy Life Years), chronic morbidity and perceived health for Italy (Health data from SILC 2010\*)

Life Expectancy at age 65 and expected years

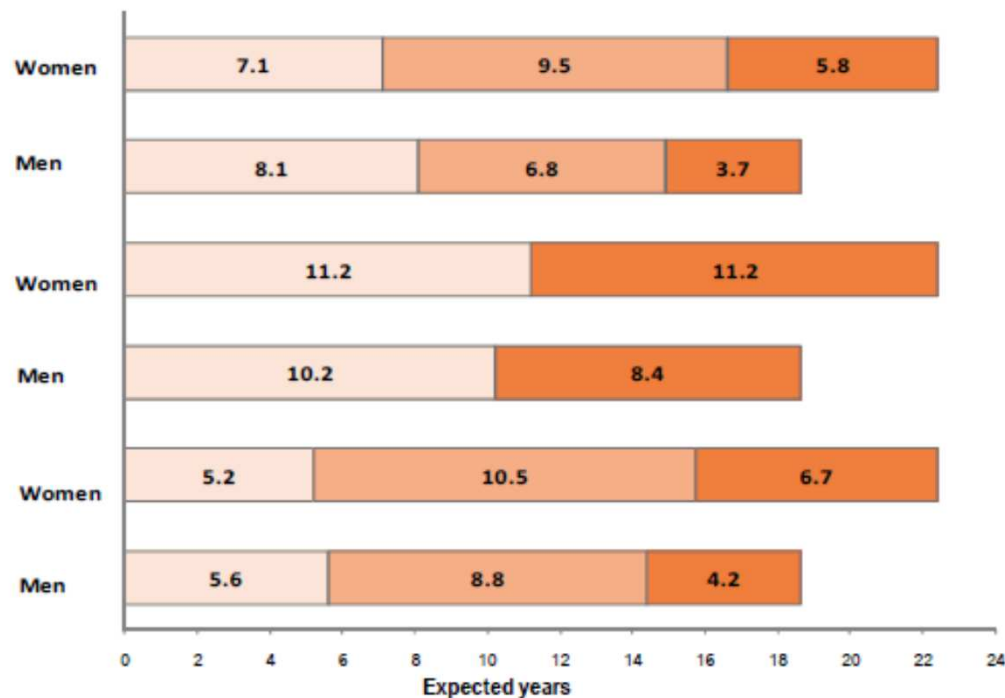
- Without activity limitation
- ▨ With moderate activity limitation
- With severe activity limitation

Life Expectancy at age 65 and expected years

- Without chronic morbidity
- With chronic morbidity

Life Expectancy at age 65 and expected years

- In very good or good perceived health
- ▨ In fair perceived health
- In bad or very bad perceived health



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# BIG DATA, ICT, IoT, digitalizzazione

Ethics and Information Technology (2005) 7:111–119  
DOI 10.1007/s10676-006-0008-0

© Springer 2006

## Why we need better ethics for emerging technologies

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New technological products are emerging.

Following three stages of technological revolutions:

introduction – permeation - power

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# PERCHE' CLASSIFICARE ?

- linguaggio comune
- permettere un raffronto dei dati fra:
  - Paesi
  - discipline sanitarie
  - servizi
  - periodi / coorti / regioni / nazioni
- fornire uno schema di codifica sistematica per i sistemi informativi sulla salute

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## La 54° Assemblea Mondiale della Sanità 22 maggio 2001



Approva e pubblica l'ICF

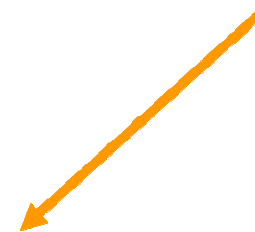
Raccomanda:

- l'uso dell' ICF negli Stati Membri per la ricerca, negli studi di popolazione e nei rapporti
- l'uso congiunto con l'ICD**
- adattamenti specifici per indagini ed incontri clinici
- revisioni periodiche

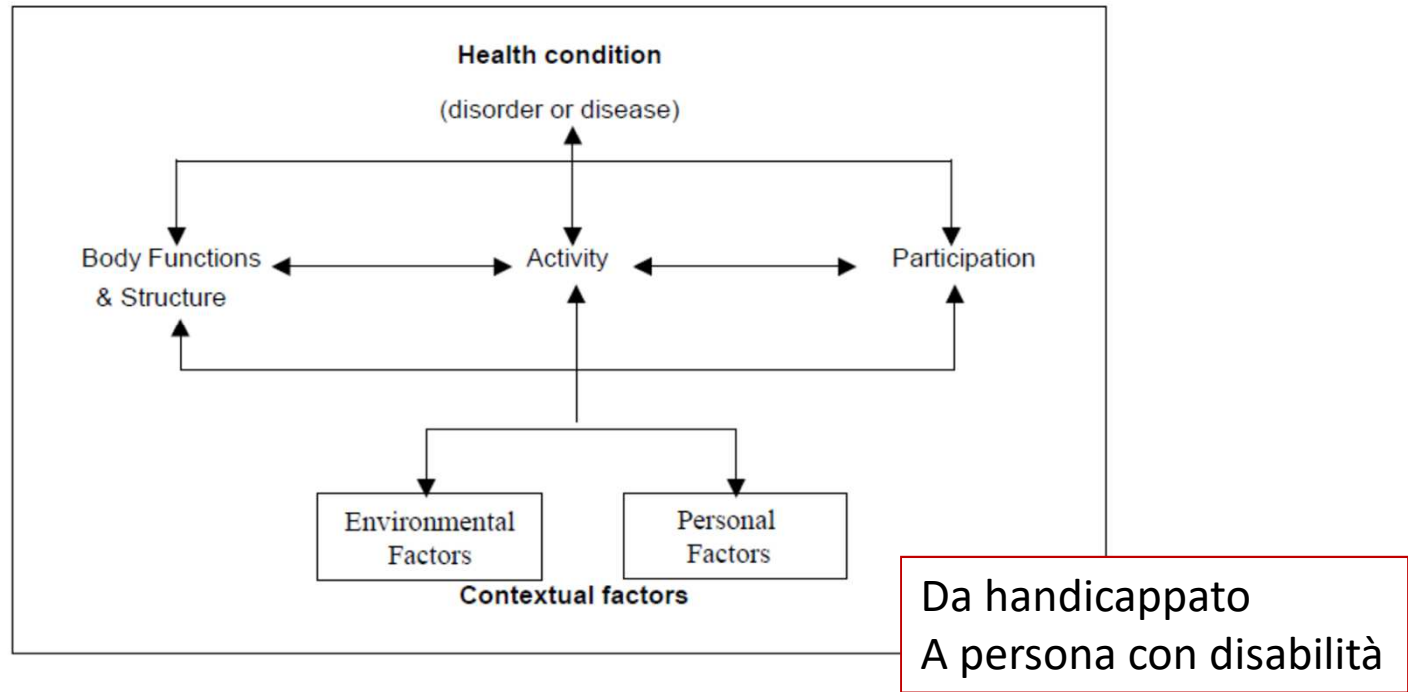
**ICIDH 1**  
(International  
Classification of  
Impairment,  
Disability and  
Handicap)  
OMS, 1980



**ICIDH 2**  
(1999)



**ICF**  
2001



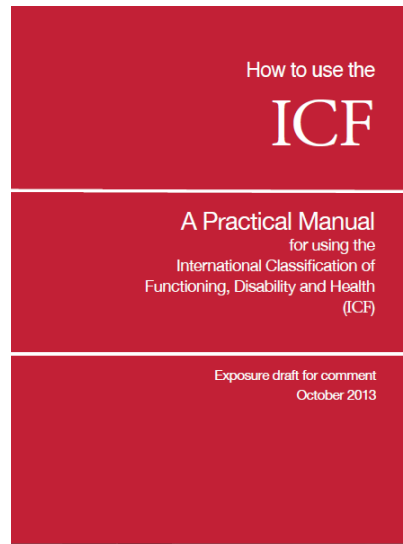
SALUTE E DISABILITA' condividono le stesse dimensioni concettuali.

La DISABILITA' è una condizione che ognuno può sperimentare durante la propria vita.

Tutti possono avere una condizione di salute che in un contesto ambientale sfavorevole causa disabilità.

**La Disabilità è indipendente dall'eziologia.**





The International Classification of Diseases (ICD) provides an aetiological framework for health conditions such as diseases, disorders, or injuries. Functioning and disability associated with these health conditions, however, are classified in ICF.

ICD and ICF are complementary and users are encouraged to use the two classifications together. While ICD provides a diagnosis of diseases, disorders or other health conditions, this information is enriched by additional information from ICF on functioning. If we use ICD alone we may not have the information we need for health planning and management purposes. Therefore, using ICF with ICD makes it possible to collect data providing a full picture of health and functioning in a consistent and internationally comparable manner.

Hopfe M et al . Capturing patients' needs in casemix: a systematic literature review on the value of adding functioning information in reimbursement systems. BMC Health Serv Res. 2016.

Madden R, Marshall R, Race S. ICF and casemix models for healthcare funding: use of the WHO family of classifications to improve casemix. Disabil Rehabil. 2013;35:1074-1977.

Selb M, Kohler F, Robinson Nicol MM, Riberto M, Stucki G, Kennedy C, et al. ICD-11: a comprehensive picture of health, an update on the ICD-ICF joint use initiative. J Rehabil Med. 2015;47:2-8.

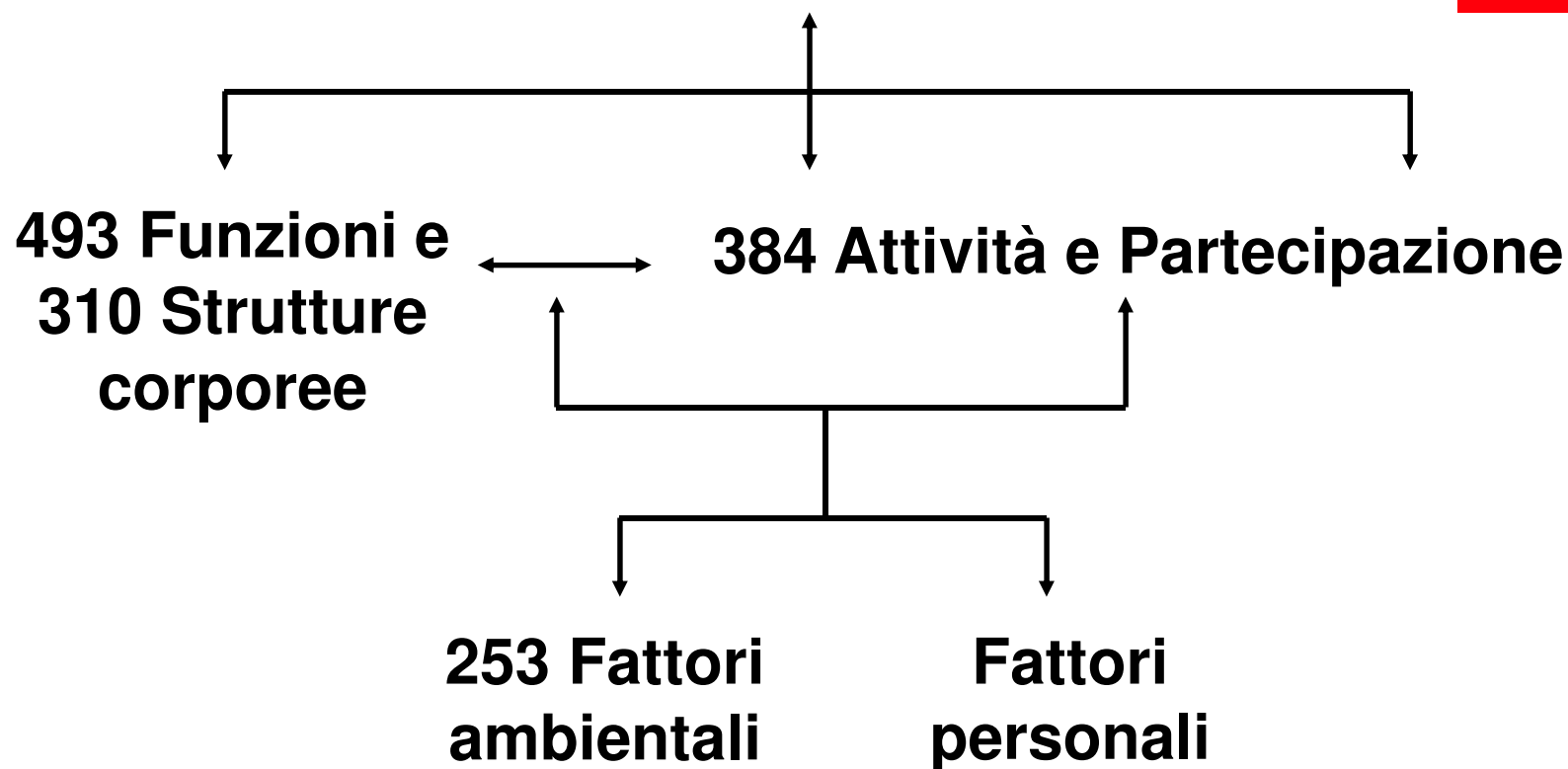
Scrutinio D, **Giardini** A, Spanevello A, Chiovato L, Vitacca M, Giorgi G. The new frontiers of rehabilitation medicine in people with chronic disabling illnesses. European Journal of Internal Medicine. In press

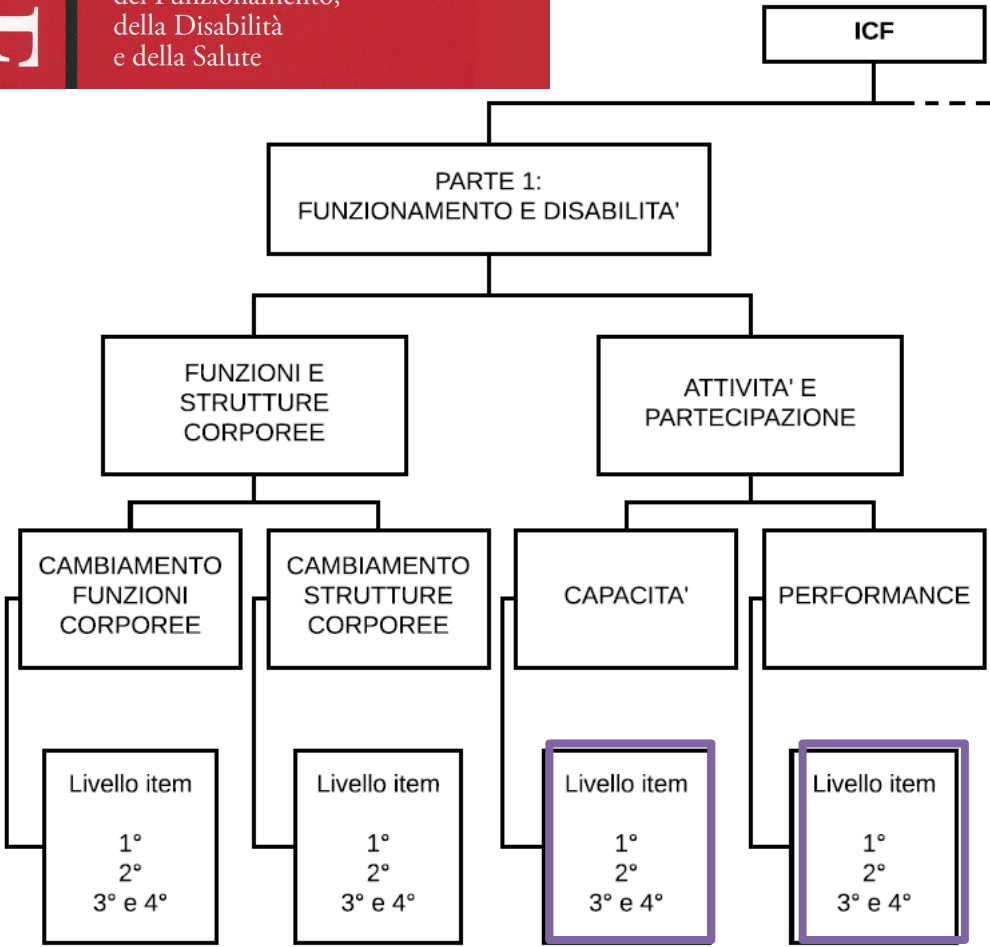
# Categorie ICF

ICF  
International  
Classification of  
Functioning,  
Disability  
and  
Health



**Condizione di salute  
(disturbo, malattia, trauma)**

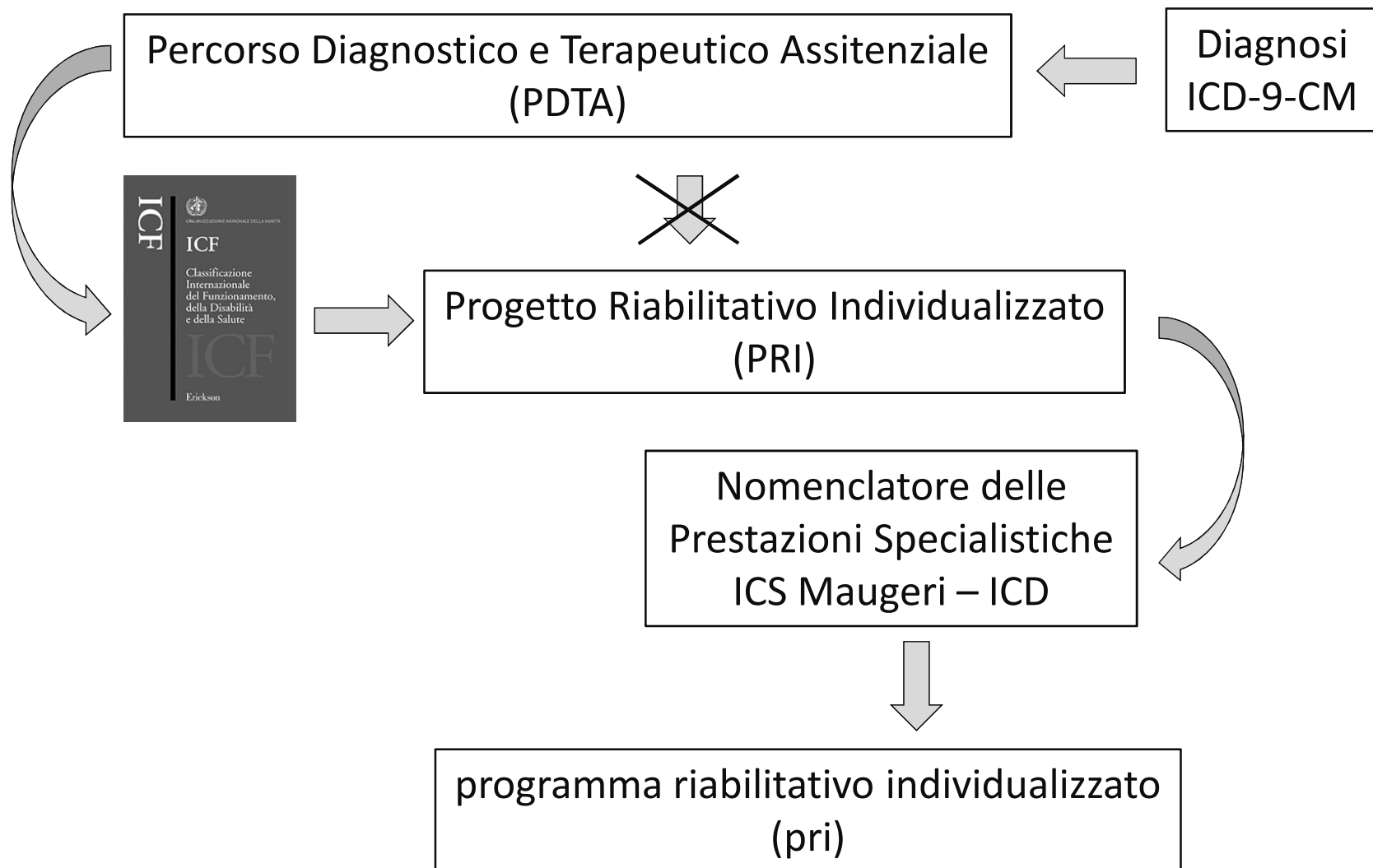




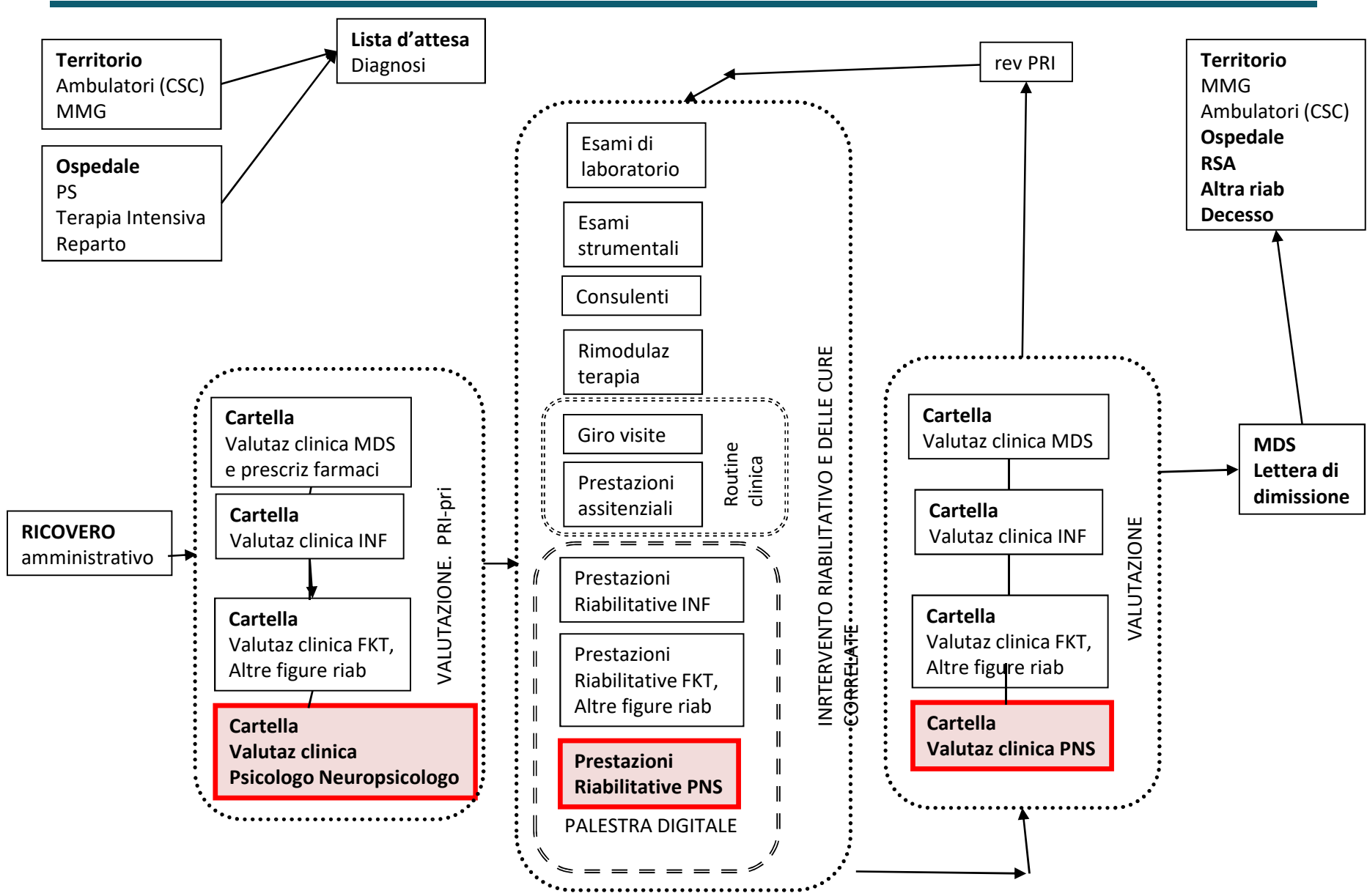
**Esempi categorie attività e partecipazione:**

**d4**  
 Mobilità  
**d455**  
 Spostarsi  
**d4551**  
 Salire

**d5**  
 Cura della propria persona  
**d510**  
 Lavarsi  
**d520**  
 Prendersi cura di singole parti del corpo  
**d530**  
 Bisogni corporali



(Giardini et al, GIMLE 2018)



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## Definizione di Palestra Riabilitativa Digitale

### DIGITAL COMPREHENSIVE REHABILITATION

Contesto di lavoro in cui vengono svolte le linee di attività terapeutica plastico funzionale (**fisioterapia, terapia occupazionale, psicologia, neuropsicologia, logopedia, nutrizionale, nursing riabilitativo**) parte essenziale dei percorsi di medicina riabilitativa

*Giornale Italiano di Medicina del Lavoro ed Ergonomia, volume XL supplemento a n.1*

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- Linden M. Definition and Assessment of Disability in **Mental Disorders** under the Perspective of the International Classification of Functioning Disability and Health (ICF). Behav Sci Law. 2017 Mar;35(2):124-134. doi: 10.1002/bsl.2283. Epub 2017 Mar 14. Review. PubMed PMID: 28295575
  - Gorostiaga A, Balluerka N, Guilera G, Aliri J, Barrios M. Functioning inpatients with **schizophrenia**: a systematic review of the literature using the International Classification of Functioning, Disability and Health (ICF) as a reference. Qual Life Res. 2017 Mar;26(3):531-543. doi: 10.1007/s11136-016-1488-y. Epub 2016 Dec 26. Review. PubMed PMID: 28025717
  - Willis C, Girdler S, Thompson M, Rosenberg M, Reid S, Elliott C. Elements contributing to meaningful participation for **children and youth** with disabilities: a scoping review. Disabil Rehabil. 2017 Aug;39(17):1771-1784. doi: 10.1080/09638288.2016.1207716. Epub 2016 Jul 21. Review. PubMed PMID: 27442686
  - Tran J, Dorstyn DS, Burke AL. **Psychosocial aspects** of spinal cord injury pain: a meta-analysis. Spinal Cord. 2016 Sep;54(9):640-8. doi: 10.1038/sc.2016.66. Epub 2016 May 10. Review. PubMed PMID: 27163453
  - Hudson JL, Bower P, Archer J, Coventry PA. Does collaborative care improve social functioning in adults with **depression**? The application of the WHO ICF framework and meta-analysis of outcomes. J Affect Disord. 2016 Jan 1;189:379-91. doi: 10.1016/j.jad.2015.09.034. Epub 2015 Oct 3. Review. PubMed PMID: 26476422.

## Diagnosi

- Diagnosi/ di **malattia/e** (principale e secondarie)
- Diagnosi/valutazione della **disabilità**

ICD9

ICF

## Intervento

- **Farmaci/presidi** (piano terapeutico)
- Protesi/ausili
- Procedure **interventistiche**
- Prestazioni **riabilitative**

Nomenclatore  
ICSM

## •Misurare/valutare

Mortalità, riacutizzazioni, revolving doors

+

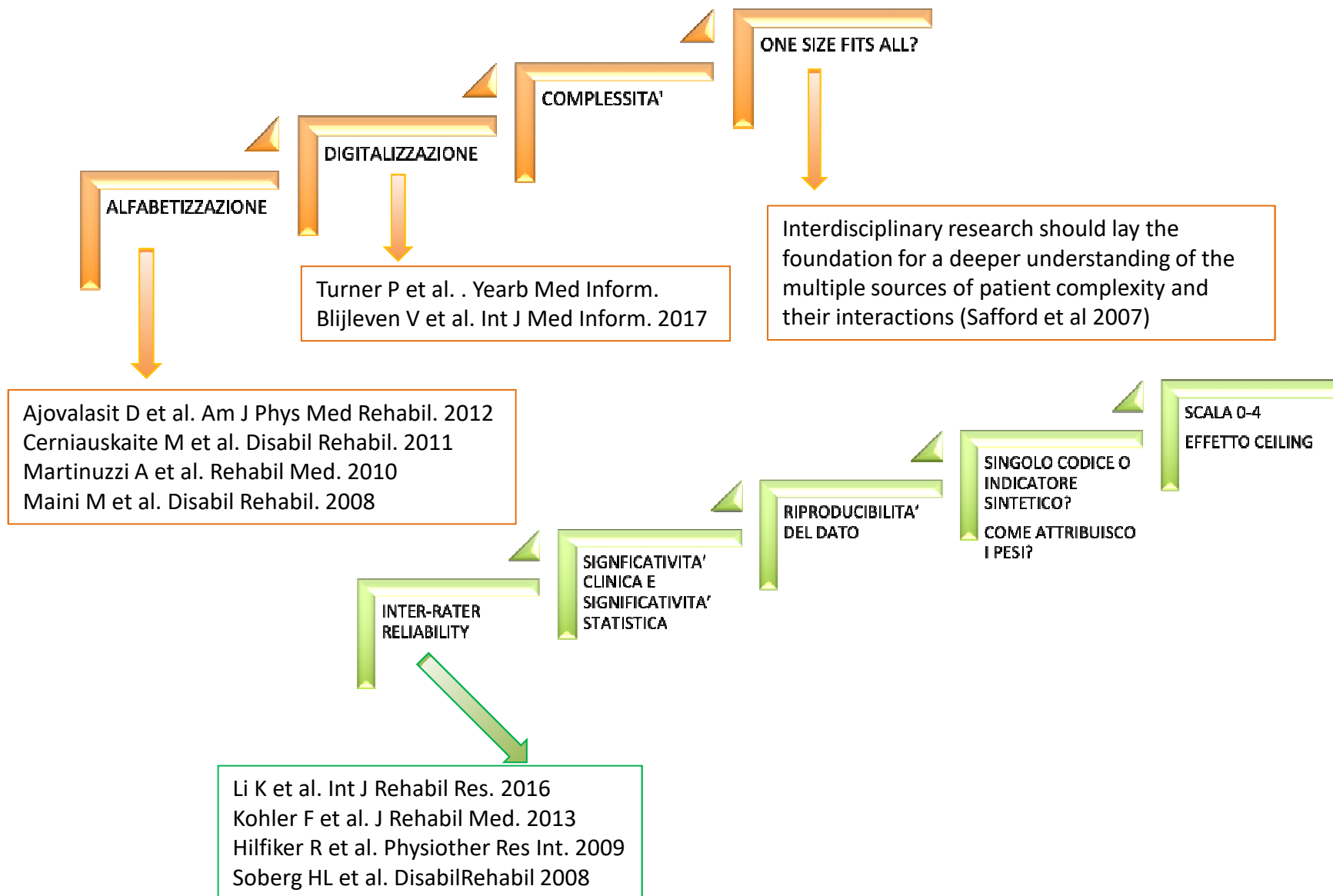
ICF

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# ICD-ICF: New wine or just a new bottle?



## Cambiamento nella domanda (Del Vecchio M. 2018)

- Cronicità
- Focus su aspetti socio-sanitari
- Prevenzione primaria e secondaria
- Maggiori attese del paziente

Complexity is not to be considered as a synonymous of complicated, but stays for the **necessary integration of interrelated information** (i.e. internal medicine issues, rehabilitation goals, pharmacotherapy, diagnostic and rehabilitation procedures, social environment, aids): the **computational models** that may describe rehabilitation medicine are necessarily **nonlinear** and **need to integrate networks of actors and multiple nodes of interrelations**.

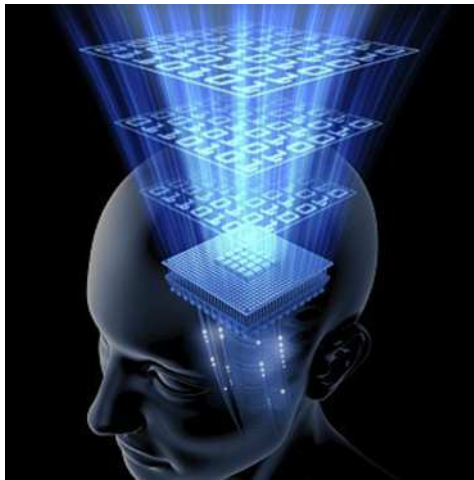
(Kannampallil TG, Schauer GF, Cohen T, Patel VL. Considering complexity in healthcare systems. J Biomed Inform. 2011;44:943-947)

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**PASSATO** team multidisciplinare (tutti operatori sanitari)

Poi team interdisciplinare

**PRESENTE** team E ingegneri - statistici - economisti - manager



Andiamo verso un pensiero computazionale  
Molteplici livelli di complessità

**FUTURO** Integrazione della complessità

