





Federaal Kenniscentrum voor de Gezondheidszorg Centre Fédéral d'Expertise des Soins de Santé Belgian Health Care Knowledge Centre

### BelRAI suite of instruments:

an exploratory study on applicability for individual care planning and budget allocation in rehabilitation care

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### Belgian rehabilitation care

#### **Current situation:**

- Mix of patients: e.g. child with autism, adult with a leg amputation, elderly recovering from a CVA, etc
- Mix of types of care settings: e.g. hospital care (Sp), long term care facilities, home care, ambulatory care, etc.
- 6th State Reform: rehabilitation divided across federal and defederated level

### Belgian rehabilitation care

#### **Both policymakers and clinicians:**

- need for a patient classification system based on patient multidimensional functional status for organisation and financing of care settings
- 2005-2015: Already many decisions taken on the use of the InterRAI and the development of the BelRAI suite of instruments







InterRAI suite of instruments for adults	BelRAI suite of instruments for adults	InterRAI suite of instruments for children	BelRAI suite of instruments for children
Acute care			
Post-acute care			
Home care	$\square$	Pediatric home care	
Community health assessment - Assisted living - Deafblind - Functional			
Long-term care facilities			
Contact assessment			
Palliative care			
<ul> <li>Mental health</li> <li>Brief mental health screener</li> <li>Community mental health</li> <li>Intellectual disability</li> <li>Correctional facilities</li> <li>In-patient psychiatry</li> <li>Emergency screener for psychiatry</li> <li>Quality of life</li> </ul>		Child and youth mental health Intellectual and developmental disability Adolescent supplement	
	BelRAI screener		



### Research questions

InterRAI/ BelRAI suite of instruments also applicable in rehabilitation care for:

- assessment of rehabilitation needs of the individual patient?
- financing purposes (budget allocation)?

# Belgian rehabilitation care

# KCE report: focus on 2 main sectors in transferred rehabilitation competences

- specialised rehabilitation services (Sp services)
   e.g. patients with musculoskeletal impairments, brain injury patients, patients with amputations, patients with Parkinson's
- NIHDI convention for Centres for Ambulatory Rehabilitation (CAR/CRA)

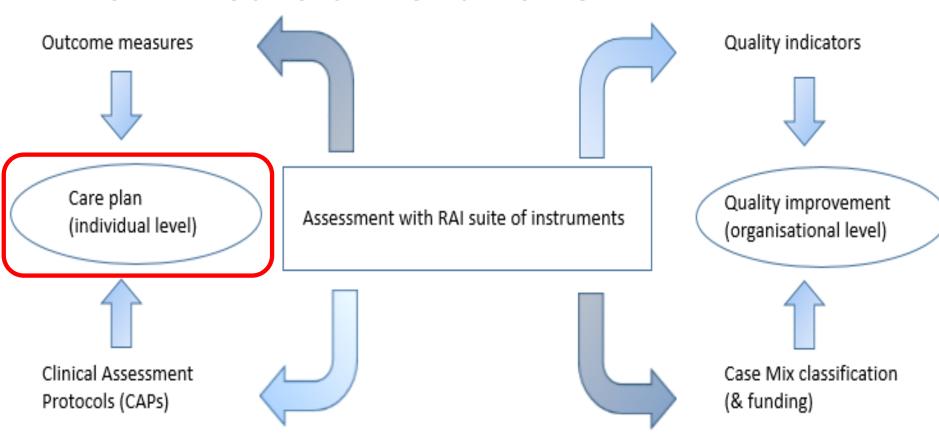
Main population: children with mental handicap, complex developmental disorders, autism, ADHD, children or adults with hearing disorders

#### Mixed method approach including:

- Literature review
- policy decision analysis
- Site visits
- Stakeholders consultation



#### interRAI suite of instruments



Source: adapted from Nedrai.org



# RQ 1: Applicability in rehabilitation?

- specialised rehabilitation services (Sp services):
  - already applied in similar population
  - some interRAI instruments already adapted to Belgian context (BelRAI HC, LTCF)
- NIHDI convention for Centres for Ambulatory Rehabilitation (CAR/CRA)
  - already applied in similar population
  - none already adapted to Belgian context
  - for some specific groups: not yet determined which InterRAI instrument is the most suitable

#### Comparison InterRAI suite vs ICF and FIM:

equivalent measures but InterRAI suite more operationalized



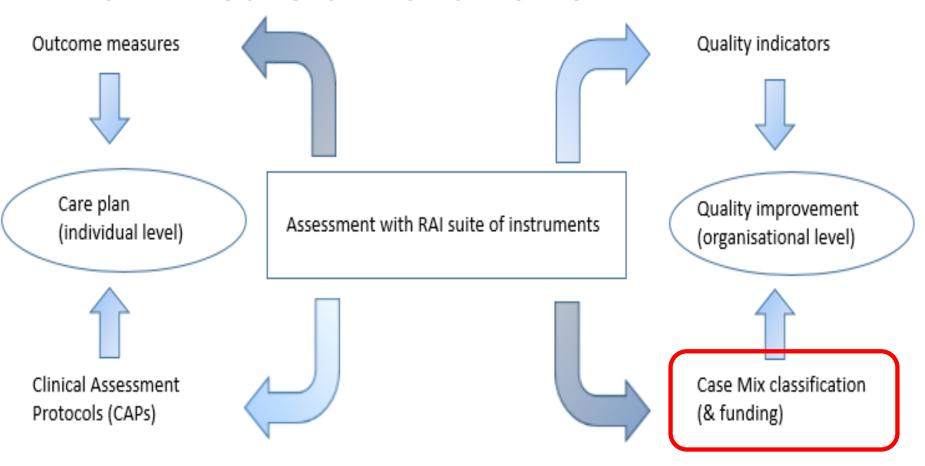
# RQ 1: applicability in rehabilitation?

Yes but... further steps needed:

- Further development of other InterRAI/BeIRAI instruments (postacute care, specific groups of (pediatric) patients)
- Validation in Belgian care setting (translation, pilot testing)
- Implementation in clinical practice (ICT, training, (multidisciplinary) care planning)



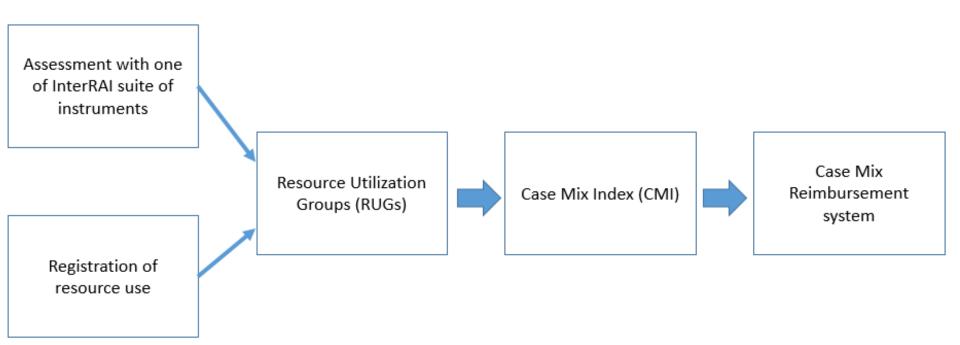
#### interRAI suite of instruments



Source: adapted from Nedrai.org



# RQ 2: Applicability for financing purposes?





InterRAI suite of instruments	InterRAI RUGs	BelRAI suite of instruments	BelRAI RUGs
Acute care		$\overline{\square}$	
Post-acute care			
Home care	$\square$		
Community health assessment - Assisted living - Deafblind - Functional			
Long-term care facilities	$\square$		
Contact assessment			
Palliative care			
<ul> <li>Mental health</li> <li>Brief mental health screener</li> <li>Community mental health</li> <li>Intellectual disability</li> <li>Correctional facilities</li> <li>In-patient psychiatry</li> <li>Emergency screener for psychiatry</li> <li>Quality of life</li> </ul>	☑		
		BelRAI screener	



# RQ 2: applicability for financing purposes?

- Belgian rehabilitation care settings (Sp services):
  - Already validated and applied (HC and LTCF)
  - Other RUGs under development
- NIHDI convention for Centres for Ambulatory Rehabilitation (CAR/CRA)
  - No validation studies found for pediatric population
  - RUGs under development
- Yes but... multiple steps needed before implementation of a casemix financing system

#### Conclusions

#### InterRAI suite of instruments:

- suitable for assessment of the functioning of various types of patients, in many different care settings, in many countries
- various applications: care planning, care intensity calculations, patient classification, quality indicators, budget allocation, etc.

#### **BelRAI** suite of instruments:

 (previous and recent) political decisions, at the federal and defederated level, on its development and implementation

#### Rehabilitation care:

- recommendations e-health plan on development of specific interRAI instruments for rehabilitation care
- potentials for a casemix financing system (RUGs)



#### Main recommendations

# Ministers of Health

- Validation of Belgian RUGs
- Validation of interRAI/BelRAI as triage system
- Mutual agreement between federal and defederated levels on the use of interRAI data across the rehabilitation sector

# Privacycommission and sectoral committee

- Advisory role in the set up of regulations to facilitate the collection, the storage, processing of the BelRAI data for patients, care providers, care settings and researchers
- Facilitation of the exchange of data between
   Belgium and the internal collaboration of interRAI



#### Recommendations

### IMC Public Health

- Continue consultation on the uniformization of budgetallocation methods for rehabilitation patients
- Confirmation of the implementation goals formulated in the ehealth-plan

RIZIV - INAMI and defederated authorities  Exploration of the inclusion of the interRAI/BelRAI assessment instruments in the determination of the NIHDI conventions and in the determination of the NIHDI nomenclature of care services related to rehabilitation care



### Colophon

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