

Long-Term Care Coverage in Europe: How do Legislations Affect Inequality in Access?

BVSH HOVSE

Ludovico Carrino

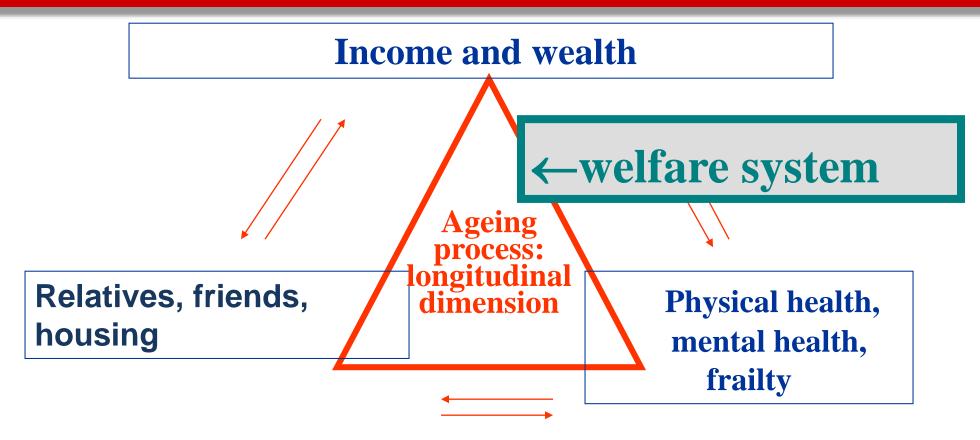
UNAM, Ciudad de Mexico, 1 April 2019

Long-Term Care

- Assistance for persons with reduced functional or cognitive capacity
 - <u>Domiciliary</u> vs Residential, <u>Nursing care</u> vs Domestic help, <u>Formal</u> vs informal
- Heterogeneity in use/spending data across countries (OECD 2016)
 - OECD average use: 13% in 2015. More than 50% are aged 80+
 - Average spending (1.5% GDP) will double by 2060
- Pressure from social, economic and demographic change
 - Healthy Ageing in-place (WHO 2015)
 - Dementia (OECD 2015)
 - Inequalities in LTC access: risk for Social Exclusion (OECD 2017)



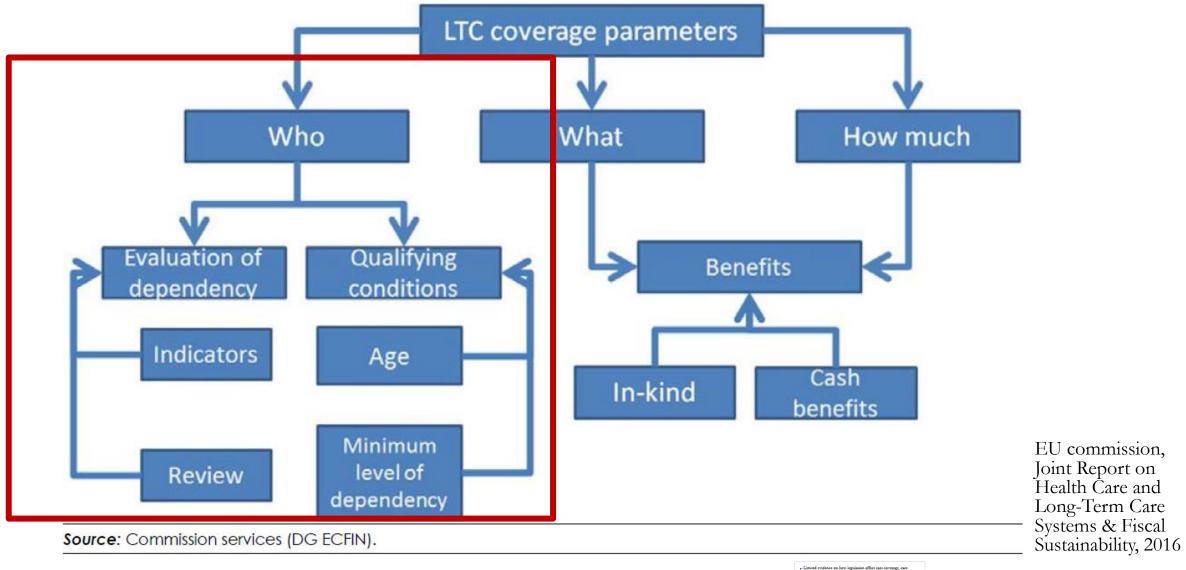
An economics framework



- Health is a stock that needs preserving through (costly) investment
- Individual insurance against loss of autonomy

Eligibility rules: a regulatory definition of care-need

- > Need-of-care (rather than ageing) important driver of LTC demand...
 - > What is "need"? E.g., 1+ ADL limitation (EU Ageing Report 2015).
- > ... but LTC legislations specifically define a «target» population:
 > Assessment of needs → eligibility rules
 - > a minimum condition of «objective vulnerability», to receive the benefit
- > RQ1: How is "objective vulnerability" operationalised?
 - > Lack of unique clinical definition. E.g., frailty as a "Holy Grail" (Conroy 2009)



Limited volumes on here lightains affer sets energing, sets
 angulary and sequentians, users to sets
 a fairs on (2016), Datal et al (2017), Datagenes (2017), Data (2017),
 Rainteires 2018), Visitannos (2017), Adalays et al (2016)
 a. Reviews on engularity frameworks of this focus on "what" and "here
 much", raintaing (2016) and "what"
 a. E., Anadel more peak, which ..., Octo & Parasakae 2019

 L., B., Anadel more peak, which ..., Octo & Parasakae 2019

7/12/2019

King's College London

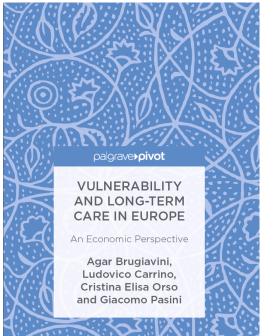
Review of European LTC legislations

We review national programmes (including reforms) in:

 Austria, Belgium, France, Germany, Czech Republic, England & Wales, Spain

Regional programmes

• Belgium, Italy



- Brugiavini, Carrino, Orso & Pasini (2017)
- Carrino, Orso & Pasini (2018)

How is vulnerability assessed?

• Large differences with the clinical perspective



- Number of criteria: some regulations have few, others more than 30
- Focus: ADL, iADL, cognitive/behavioural difficulties
- Weights assigned to specific deficits
- Availability of informal-care (ignored/beneficial/detrimental)
- Means-testing
- RQ2: How can such differences affect LTC coverage?
 - Horizontal vs Vertical equity
 - Lack of evidence in current literature
 - crucial for reforms and costs control

SHARE/ELSA data and LTC eligibility rules

• European microdata: SHARE and ELSA 2015 surveys, representative of population aged 65+ (Austria, Belgium, Czech Republic, England, France, Germany Italy and Spain).

ADL	iADL	others	
Bathing & hygiene 🗸	Communication 🗸	Behavioural/Cognitive impairment \checkmark	
Dressing 🗸	Shopping for groceries/medicines \checkmark	Other mobility limitations \checkmark	
Using the toilet \checkmark	Cooking 🗸	Informal-care utilisation \checkmark	
Transferring 🗸	Housekeeping 🗸	Marital status/living arrangement \checkmark	
Continence 🗸	Doing laundry	Advanced medications related to post-	
		surgical conditions ×	
Feeding 🗸	Moving outdoor	Visual/hearing impairment 🗸	
Moving indoor \checkmark	Responsibility for own medications \checkmark		

Geriatricians involved for a prudent and accurate correspondence between microdata information and actual LTC legislations.

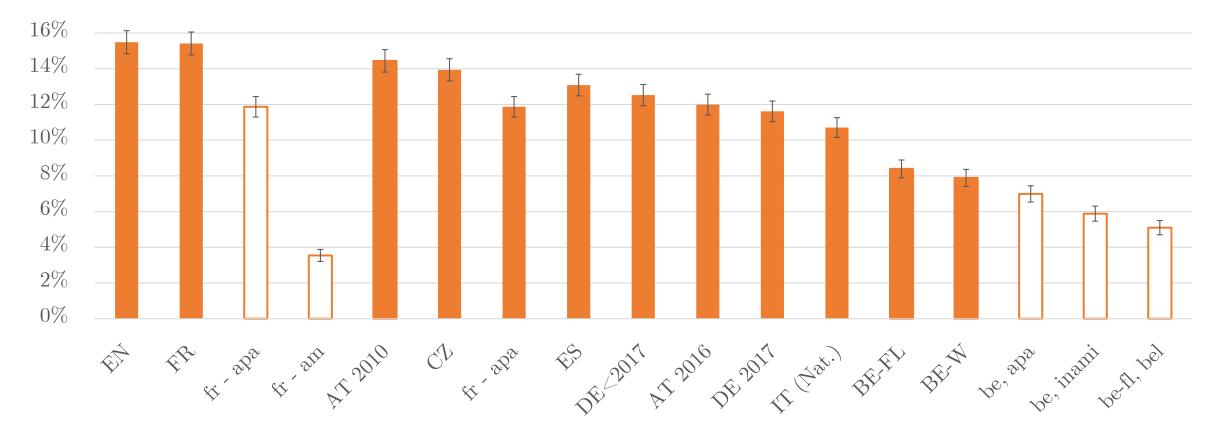
7/12/2019

Building the coverage index

- We compare respondents' clinical profiles to each LTC rule:
 - We determine respondents' eligibility status with respect to each LTC programme
- A directly-adjusted coverage index, by LTC programme:
 - % of our European sample that would be eligible under the programme's rules
- Limitations:
 - Community-level programmes are not reviewed
 - Local authorities' potential subjectivity and flexibility in applying the scales
 - Means testing not yet implemented
 - Extensive margin only, no info on intensity of support

Adjusted index of LTC coverage, by programme (2015)

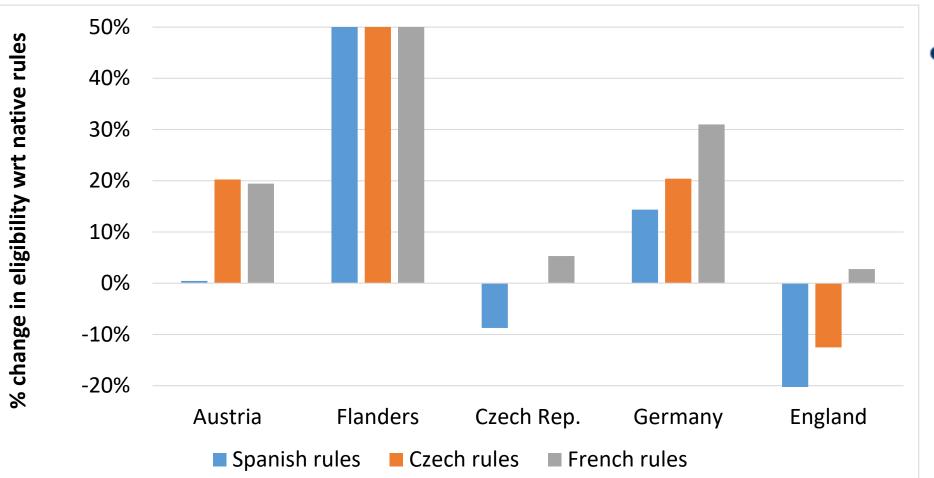
• % of European population that would be eligible to X-axis rules



• These adjusted coverage rates differ only due to eligibility rules 🛄 🗔

Counterfactual analysis

• How would LTC coverage change in 7 countries, if they applied Czech, Spanish or French definitions of eligibility? (with respect to native rule's coverage)



 Follow up: _____
 Microsimulation (Atella et al 2017)

Determinants of care-use among eligible population

- Eligibility \neq actual utilisation
 - Availability, accessibility, affordability of care-use
- Policy relevant: individuals eligible to local LTC, who do not receive it
 - Advantage of survey data: you can see people who *did not* apply for care, albeit potentially qualifying for it.
- Let's look at eligibility and care-use in SHARE wave 5

(% of total		Receiving formal home-care	
	Νο	Yes	
No	86.7 %	3.2 % (ii)	
Yes	5.5 % (i)	4.6 %	
•		No 86.7 %	

Carrino & Orso 2015

Source: Authors' elaboration from SHARE data

- Run simple probit model, among the sample of people eligible to LTC
 - Dependent variable: care-utilisation (yes/no)
 - Indep. variables: socio-demographic, health status
- Among eligible, probability of care use is determined by
 - Age (1 year \rightarrow +1.2% probability)
 - # children (+1 child \rightarrow +1.8%)
 - Education (+ 1 year \rightarrow +1%)
 - ADL, iADL, fractures

• See Carrino, Orso & Pasini 2018, Carrino & Orso 2015

Conclusions

- Vulnerability particularly relevant for loss of autonomy among older people
- Vulnerability is undesirable, yet not directly observable: no simple diagnosis.
- Lack of a common threshold of vulnerability for access to public LTC
- Eligibility rules determine legislation-based inequality in care-access
- Mechanisms driving lack of care-access can be further analysed by accounting for eligibility status

References to our work

- Brugiavini, A., Carrino, L., Orso, C.E., Pasini, G. (2017-forthcoming). Vulnerability and Long-term Care in Europe: an Economic perspective. *Palgrave MacMillan, London*.
- Carrino, L., & Orso, C. E. (2015). Eligibility regulations and formal home-care utilisation among the vulnerable older people in SHARE Wave 5. *Ageing in Europe-Supporting Policies for an Inclusive Society*, 343. De Gruyter
- Carrino, L., Orso, C. E., & Pasini, G. (2018). Demand of Long-Term Care and benefit eligibility across European countries. *Health Economics*.
- Atella, V., Belotti, F., Carrino, L., & Piano Mortari, A. (2017). The future of Long Term Care in Europe. An investigation using a dynamic microsimulation model. *Working Paper Tor Vergata University Roma*
- Thanks to Mauricio Avendaño, Agar Brugiavini, Karen Glaser, Cristina Orso and Giacomo Pasini



Ludovico Carrino

Research Associate Department of Global Health & Social Medicine, King's College London Affiliated with the Department of Economics, Ca'Foscari University of Venezia ludovico.carrino@kcl.ac.uk

© 2017 King's College London. All rights reserved