2nd International Conference on Evidence-based Policy in Long-term Care

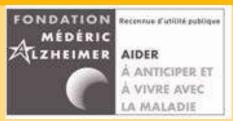
Economic Analysis of the Intangible Impacts of Informal Care for People with Alzheimer's Disease and Other Mental Disorders

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Summary

- I. Economic analysis of informal care
- II. Research question
- III. Materials and methods
- IV. Results
- V. Discussion
- VI. Conclusion

I. Economic analysis of informal care

- Three main methods to value informal care...
 - Opportunity cost method
 - Proxy good method
 - Contingent valuation method
- ...with advantages and defects
- Intangible impacts of caring :
 - Negative impacts: grief, anxiety, fatigue...
 - Positive impacts: strengthened family ties, feeling of accomplishment...

II. Research question

Are intangible impacts of informal care associated with caregiver's willingness to pay (WTP) to be replaced?

III. Materials and methods

- 1. Data Base and sample
- 2. Methods

1. Data Base and sample

- BVA-Novartis French family carers Panel data–
 4th wave– 2010
- 201 informal caregivers for care recipients with Alzheimer or related disease

Table 3 - Characteristics informal caregivers (N=201)

*Middle: secondary school or technical secondary school

Characteristics	Value	Characteristics	Valu
Informal caregivers			
Age (%)		Education level (%)	
More than 50 years old	69	Middle*	42
Female (%)	55	High*	42
Mean net household income (%)		Occupation (%)	
Less than €1500	22	Retired	50
Between €1500 and €2499	36	CR lives in institution (%)	33
Between €2500 and €3499	22	Other caregiver: yes (%)	89
More than €3500	20	Years dedicated to care (Median)	5
Relation to care recipient (%)		Caregiving frequency (%)	
Partner	6	More than one hour/day	32
Child	67	Few hours/week	43

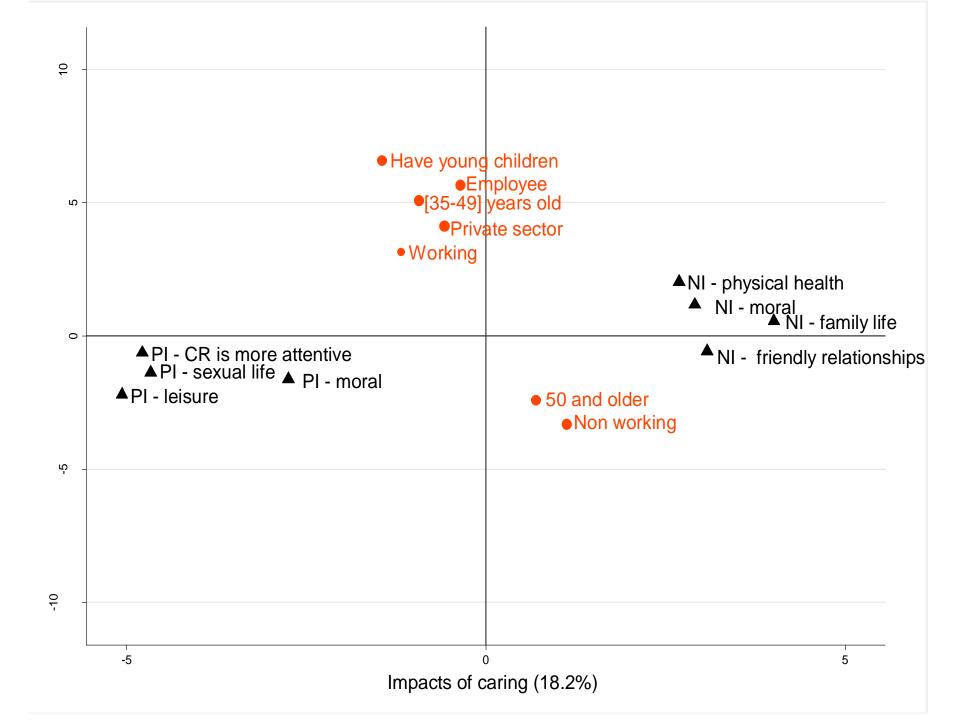
*High: University

2. Methods

- Assumptions
 - Intangible impacts of informal care affects caregiver's ability to estimate their WTP to be replaced for one hour of care.
 - Intangible impacts of informal care influence their WTP.
- Multiple correspondance analysis
- Model 1: binary dependent variable
- Model 2: dependent variable with 3 modalities

IV. Results

1. Multiple Correspondence Analysis



IV. Results

2. Binary logistic regression

Table 4 – Results logistic regression; dependent variable: in	nformal caregiver's ability to estimate WTP (N=201)
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	Coefficient	<i>t</i> -value
Intangible impacts of caring associated with ability to estimate WTP		
Dummy Delegating care to someone else is never possible (1 = yes)	1.543	2.34
Dummy Delegating care effect: sense of failure (1 = yes)	4.585	2.92
Dummy Caregiving effect on ICr's moral (1 = negative)	3.196	2.49
Dummies Caregiving motivations		
ICr's Values (1 = yes)	1.560	3.07
ICr's sense of Duty $(1 = yes)$	1.809	3.24
Dummies Caregiving's impacts		
Dummy Providing care makes CR more responsible (1 = yes)	2.031	2.02
Intangible impacts of caring associated with inability to estimate WTP		
Dummy ICr doesn't cope with his caregiver role (1 = yes)	-2.557	-2.64
Dummy Caring effect on family life: Negative (1 = yes)	-1.559	-2.42
Dummy Caregiving effect: feel valued (1 = yes)	-1.773	-2.89
Pseudo R^2	0.4622	

^{*}ICr : Informal caregiver *CR : Care Recipient

IV. Results

3. Ordered logistic regression

Table 5 – Results ordered logistic regression; dependent variable: informal caregiver's WTP (N=114)

	Coefficient	<i>t</i> -value
Intangible impacts of caring associated with a relatively lower WTP		
Dummy Cr's behavioral change: makes ICr feels guilty (1 = yes)	-1.507	-2.62
Dummy ICr doesn't cope with his caregiver role (1 = yes)	-1.356	-1.97
Dummy Since he/she receives informal care, CR became more responsible (1 = yes)	-2.089	-2.25
Pseudo R^2	0.2299	

*ICr: Informal Caregiver

*CR: Care Recipient

V. Discussion

• Assumptions validated:

 Some intangible impacts of caring influence caregiver's ability to estimate their WTP and their level of WTP to be replaced.

• Two interesting results:

- Some caregivers who derive utility from caring (approximated by positive intangible impacts of caring) can estimate their WTP.
- Some caregivers who derive burden of caring (approximated by negative intangible impacts of caring) can't estimate their WTP or have a relatively lower WTP.

VI. Conclusion - Is cash for care an optimal policy?

What do we think about burden of caring's financial compensation then?

This work questions its optimality from a societal perspective...