

UCL

Université catholique de Louvain



GéDAP Groupe d'étude de Démographie Appliquée

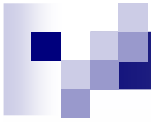
Lifetime use of nursing care in Belgium

– FP6 European Project MAGGIE

Christine Guilbault & Michel Poulain

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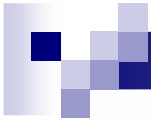
Plan

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1. Objectives

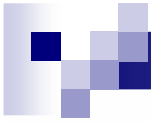
We seek to define for people aged 65+ living in Belgium:

- The amount of lifetime nursing home use
- Its distribution among different groups depending on socio-demographic characteristics such as:
 - Sex
 - Age at entry
 - Number of children
 - Education level
 - Marital status



2. Data

- **Administrative sources:**
 - National Register (1991 to 2006)
 - Census data (1991 & 2001)
- **Limitations:**
 - Delay in the registration of the entry in institution
 - A proportion of the population in nursing home is not registered in the NR
 - No medical data



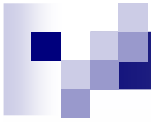
2. Data

■ Population

- All the population living in Belgium
- Criteria of exclusion: people who's first admission in institution is before the age of 65

■ Information about:

- Sex, date of birth
- Date of entry in institution
- Marital status from 1991 to 2006
- Number of children (in 1991 & 2001)
- Education level (in 1991 & 2001)



2. Data

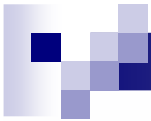
- Definition of institution:
 - Institution: nursing home with or without 24h care
 - We considered people as “institutionalized” if they were officially recorded in the institution on the National Register

3. Methods

- Calculation of lifetime use of nursing home:
 - Decedent cohorts of people who died in a 5-year-period (2001-2005)
- Number of periods of institutionalization: less than 1% of people had a second period of institutionalization

% of use and mean use of nursing home care – age at death

<i>Age at death</i>	% in institution		Mean use (years)	
	Men	Women	Men	Women
65 to 69	2,2%	3,0%	1,2	1,2
70 to 74	4,9%	9,1%	2,1	2,2
75 to 79	8,4%	17,9%	2,9	3,2
80 to 84	13,5%	28,6%	3,2	3,8
85 to 89	22,6%	40,7%	3,3	4,3
90 to 94	31,8%	49,6%	3,7	5,1
95 +	39,2%	55,0%	4,6	6,4
TOTAL	12,6%	31,9%	3,2	4,5

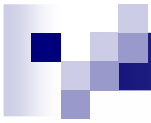


Mean use of nursing home care – age at entry

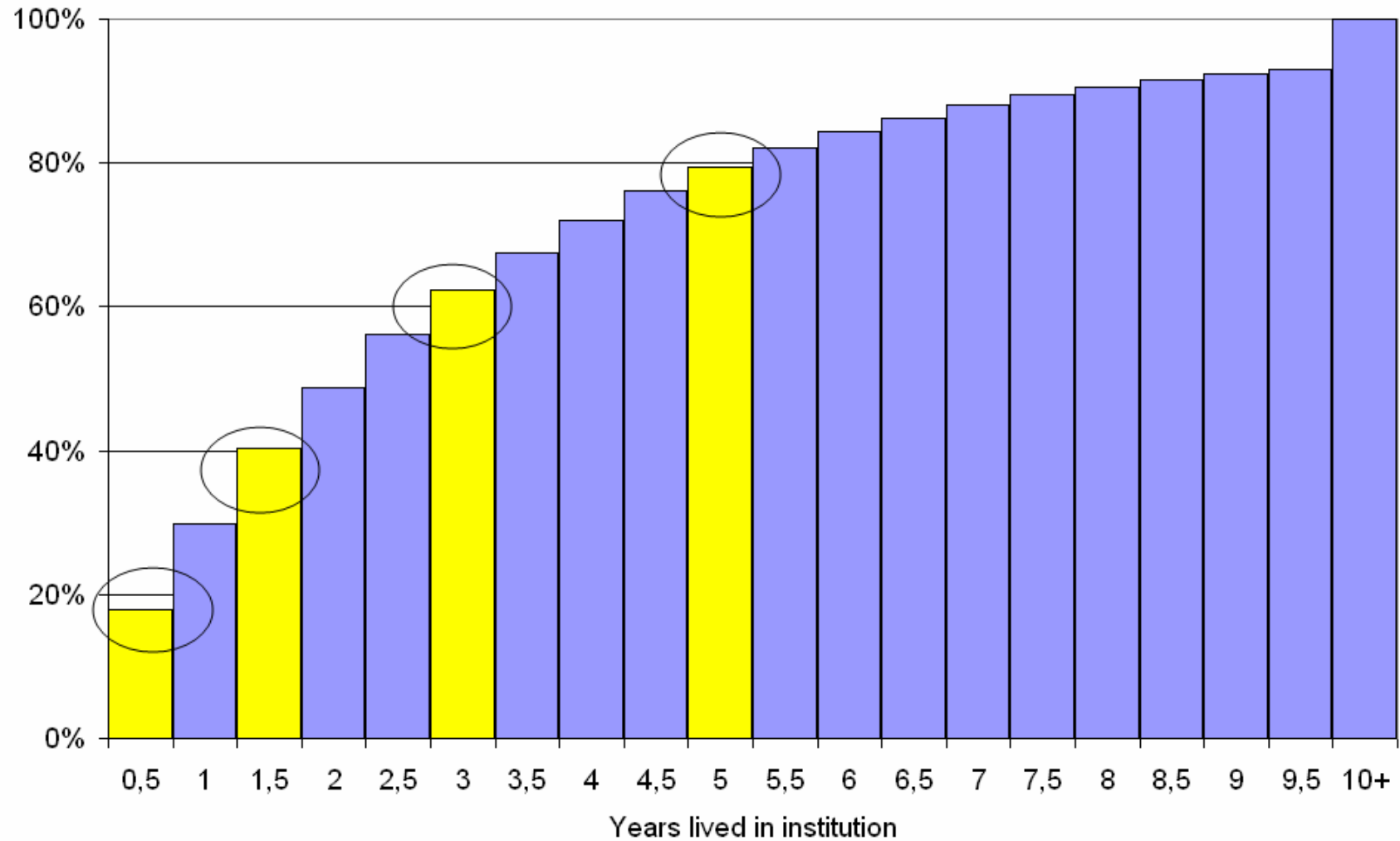
<i>Age at first entry</i>	Mean use (years)	
	Men	Women
65 to 69	6,1	8,2
70 to 74	4,4	6,3
75 to 79	3,5	5,5
80 to 84	2,9	4,8
85 to 89	2,5	3,8
90 to 94	2,0	2,8
95 +	1,6	2,1
TOTAL	3,2	4,5

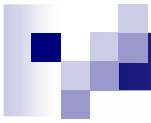
Distribution (%) of lifetime use

Age at first entry		Distribution (%)				
		< 6 months	< 1 year	< 5 years	5+ years	10 + years
Men	65 to 69	9,6	16,7	54,9	45,1	25,6
	70 to 74	14,1	23,7	68,5	31,5	12,0
	75 to 79	16,7	28,1	76,8	23,2	8,3
	80 to 84	19,7	31,7	80,2	19,8	3,9
	85 to 89	18,6	31,5	86,9	13,1	1,4
	90 to 94	22,3	37,4	92,3	7,7	0,3
	95 +	28,7	47,0	95,6	4,4	0,0
	TOTAL	17,9	29,8	79,4	20,6	6,3
Women	65 to 69	6,5	10,9	37,3	62,7	41,1
	70 to 74	7,9	13,9	49,8	50,2	23,7
	75 to 79	8,9	15,4	58,0	42,0	18,7
	80 to 84	10,0	17,7	60,9	39,1	11,5
	85 to 89	10,4	18,9	71,5	28,5	4,8
	90 to 94	14,5	25,6	83,0	17,0	1,4
	95 +	18,5	32,6	91,9	8,1	0,1
	TOTAL	10,5	18,6	65,4	34,6	11,3

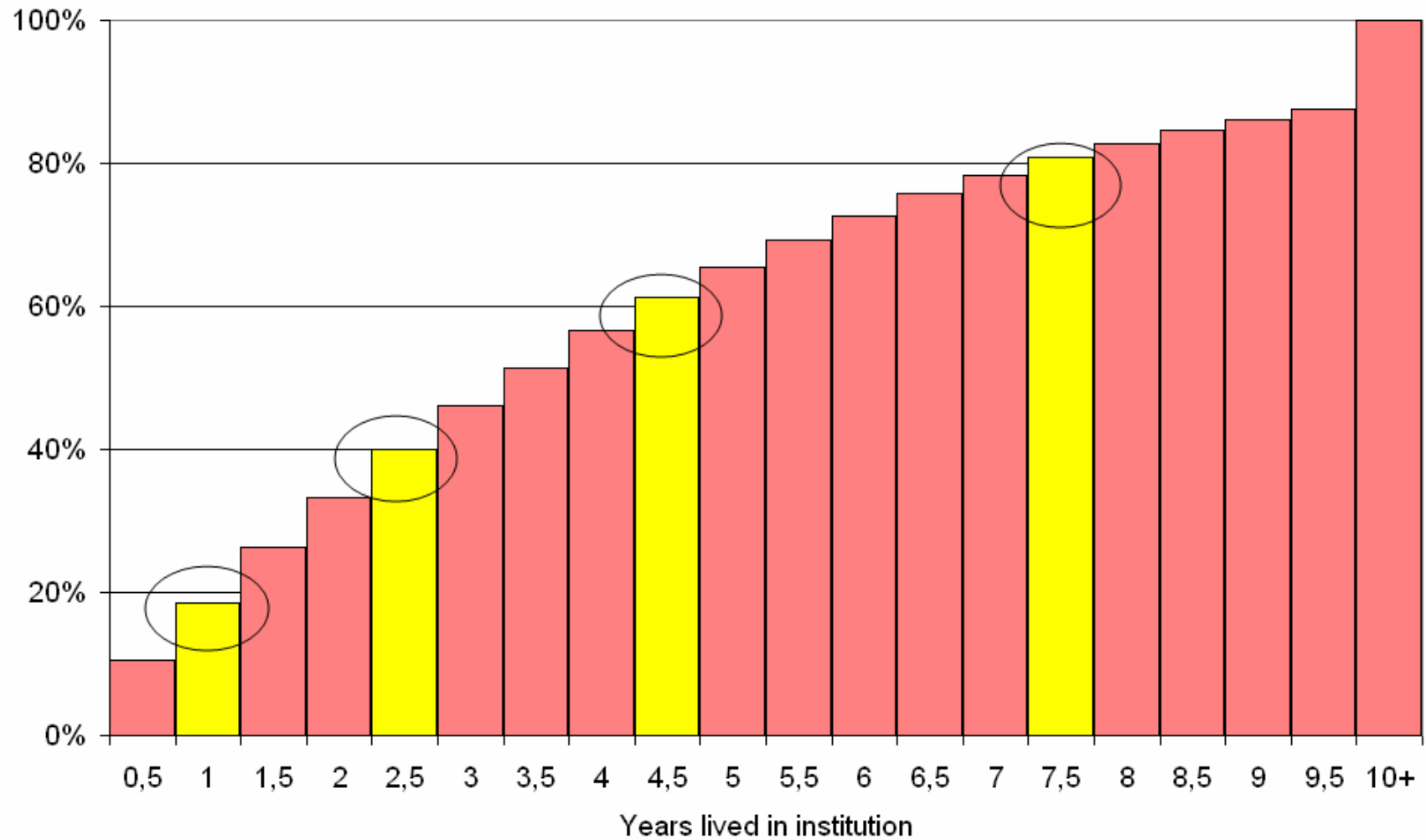


Cumulative % of lifetime use - men





Cumulative % of lifetime use - women

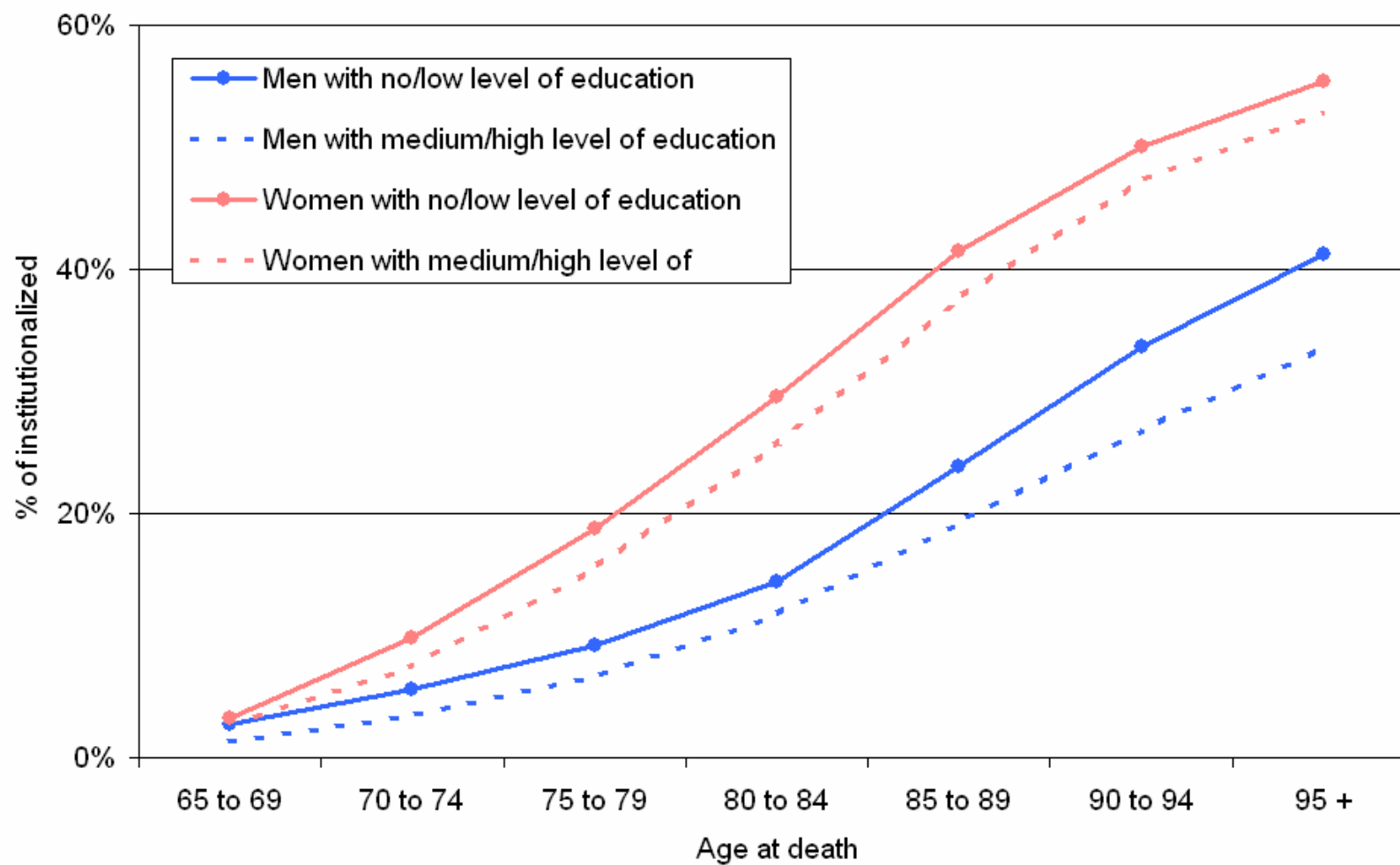


Distribution (%) of lifetime use by education level

		% in institution		Mean use (years)	
		No education and low level of education	Medium and high level of education	No education and low level of education	Medium and high level of education
<i>Men</i>	65 to 69	2,7%	1,3%	1,2	1,3
	70 to 74	5,6%	3,5%	2,2	1,9
	75 to 79	9,2%	6,7%	3,0	2,7
	80 to 84	14,4%	11,7%	3,1	3,3
	85 to 89	23,9%	19,3%	3,1	3,7
	90 to 94	33,6%	26,8%	3,6	4,0
	95 +	41,2%	33,6%	4,6	4,7
	TOTAL	13,5%	9,2%	3,2	3,4
<i>Women</i>	65 to 69	3,2%	2,7%	1,1	1,3
	70 to 74	9,8%	7,5%	2,2	2,2
	75 to 79	18,7%	15,5%	3,1	3,3
	80 to 84	29,6%	25,6%	3,6	4,3
	85 to 89	41,5%	37,5%	4,2	5,0
	90 to 94	50,1%	47,3%	5,0	5,6
	95 +	55,4%	52,9%	6,2	6,9
	TOTAL	33,1%	25,5%	4,4	4,9



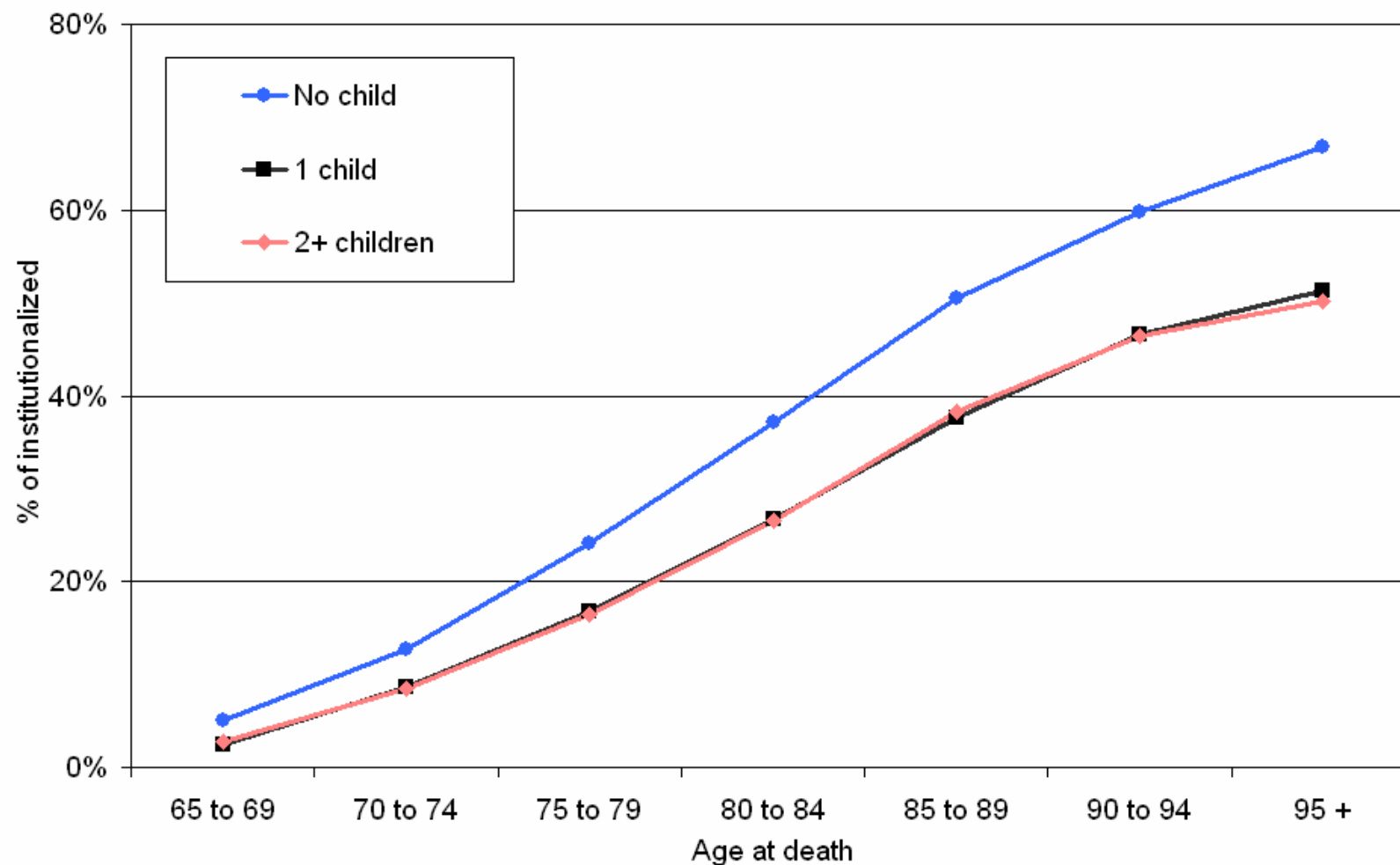
% in institution - education



% in institution & mean use – number of children

<i>Women</i>	% institutionalized			Mean use (years)		
	No child	1 child	2+ children	No child	1 child	2+ children
65 to 69	5,0%	2,5%	2,7%	1,2	1,2	1,1
70 to 74	12,7%	8,6%	8,4%	2,4	2,1	2,1
75 to 79	24,1%	16,8%	16,5%	4,5	2,8	2,7
80 to 84	37,2%	26,7%	26,5%	5,7	3,1	3,1
85 to 89	50,6%	37,7%	38,3%	6,1	3,7	3,6
90 to 94	59,9%	46,6%	46,5%	6,5	4,6	4,4
95 +	66,9%	51,3%	50,2%	7,7	5,7	5,6
TOTAL	42,6%	30,1%	28,8%	6,1	4,0	3,8

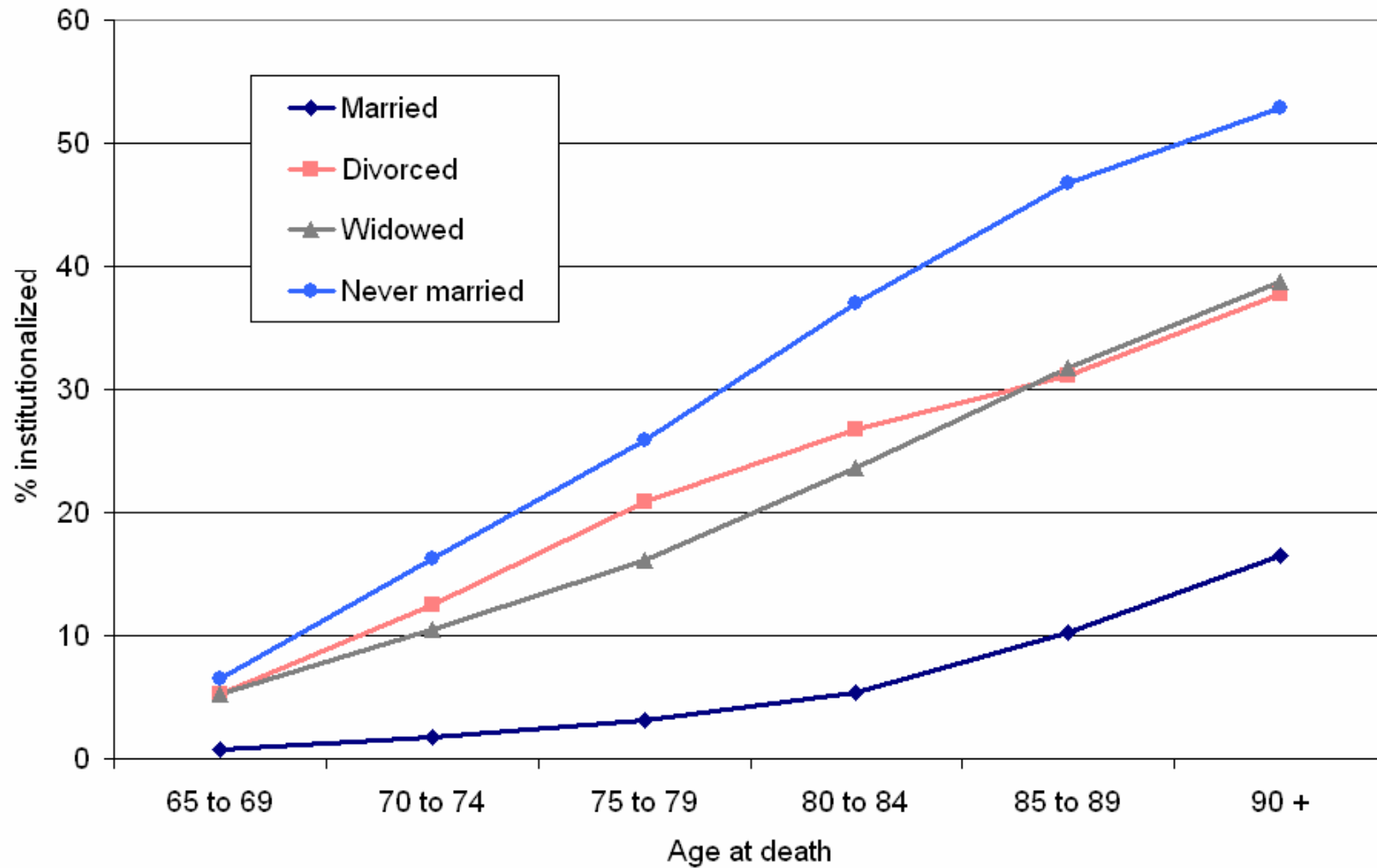
% in institution & mean use – number of children



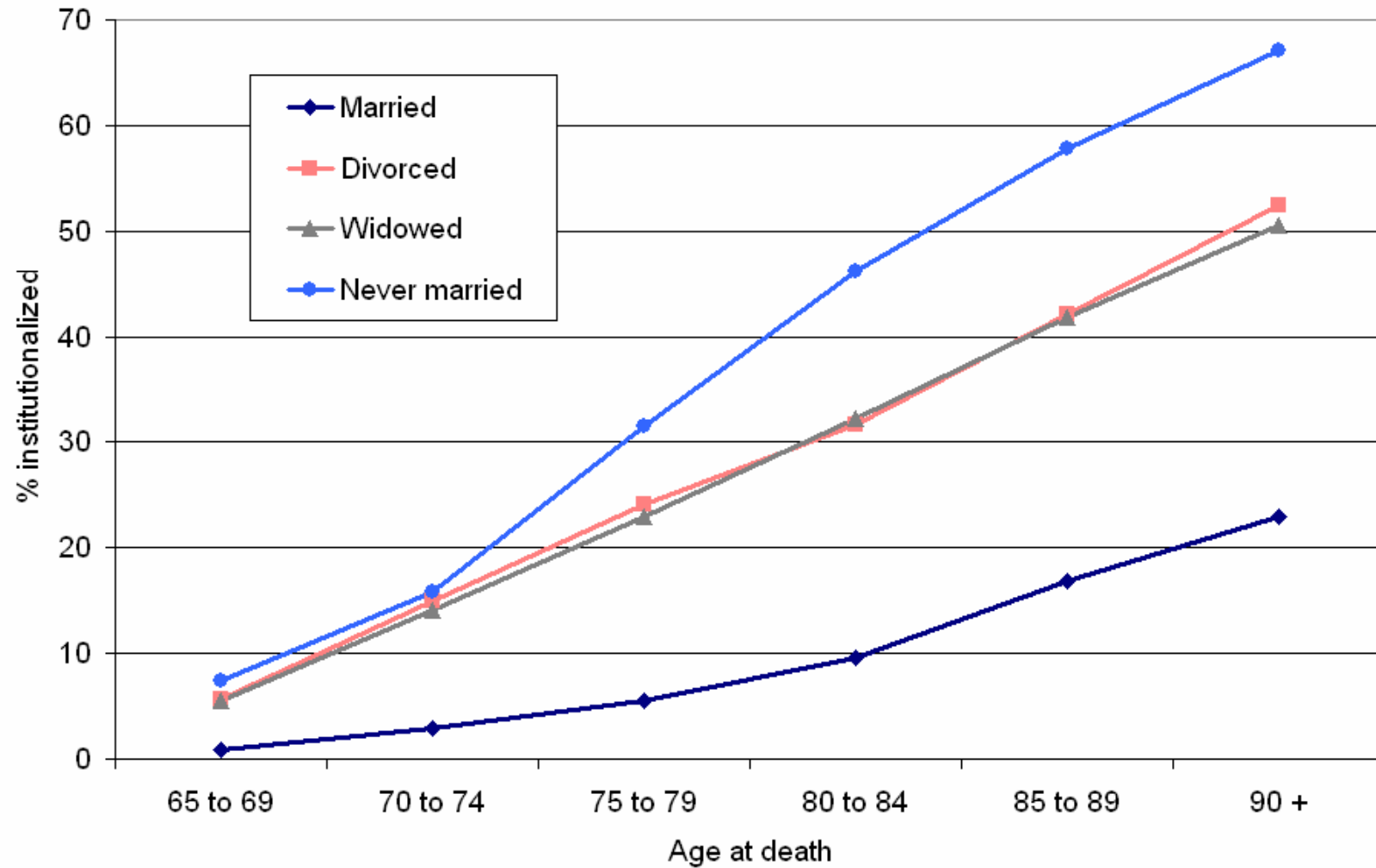
% in institution – marital status

		Married	Divorced	Widowed	Never married
<i>Men</i>	65 to 69	0,8	5,2	5,3	6,5
	70 to 74	1,7	12,5	10,5	16,2
	75 to 79	3,1	20,9	16,1	25,9
	80 to 84	5,4	26,7	23,6	37,1
	85 to 89	10,3	31,1	31,8	46,8
	90 +	16,5	37,7	38,8	52,9
	TOTAL	4,4	16,8	25,6	27,9
<i>Women</i>	65 to 69	0,9	5,7	5,5	7,3
	70 to 74	2,9	15,0	14,1	15,8
	75 to 79	5,6	24,1	22,9	31,6
	80 to 84	9,6	31,7	32,2	46,2
	85 to 89	16,8	42,2	41,8	57,8
	90 +	22,9	52,4	50,5	67,1
	TOTAL	6,8	28,7	37,4	49,6

% in institution – marital status (men)



% in institution – marital status (women)



Mean use (years) –marital status

<i>Age at death</i>		Married	Divorced	Widowed	Never married
<i>Men</i>	65 to 69	1,1	1,1	1,3	1,5
	70 to 74	1,6	2,2	2,0	2,6
	75 to 79	1,8	3,2	2,5	4,8
	80 to 84	1,7	3,9	2,6	6,6
	85 to 89	1,8	3,9	2,9	7,4
	90 +	2,4	4,6	3,7	7,1
	TOTAL	1,8	3,2	3,0	5,8
<i>Women</i>	65 to 69	0,8	1,3	1,2	1,2
	70 to 74	1,7	2,4	2,2	2,5
	75 to 79	2,0	3,4	2,8	6,3
	80 to 84	2,0	3,6	3,3	8,1
	85 to 89	2,3	4,2	3,9	8,3
	90 +	2,7	5,0	5,1	9,0
	TOTAL	2,1	3,9	4,2	8,2

5. Conclusion

- The lifetime use of nursing home is higher than what we see in other studies:
 - we have a large definition of “institutionalization”
 - the periods of institutionalization that we miss in our dataset are the shorter ones.
- It is a first step for a projection
- In the near future: estimate the lifetime use with admission cohorts & life table estimates