



Which individual demographic characteristics may help to reach 100?

Michel POULAIN



Eesti Demograafia Instituut Estonian Institute for Population Studies



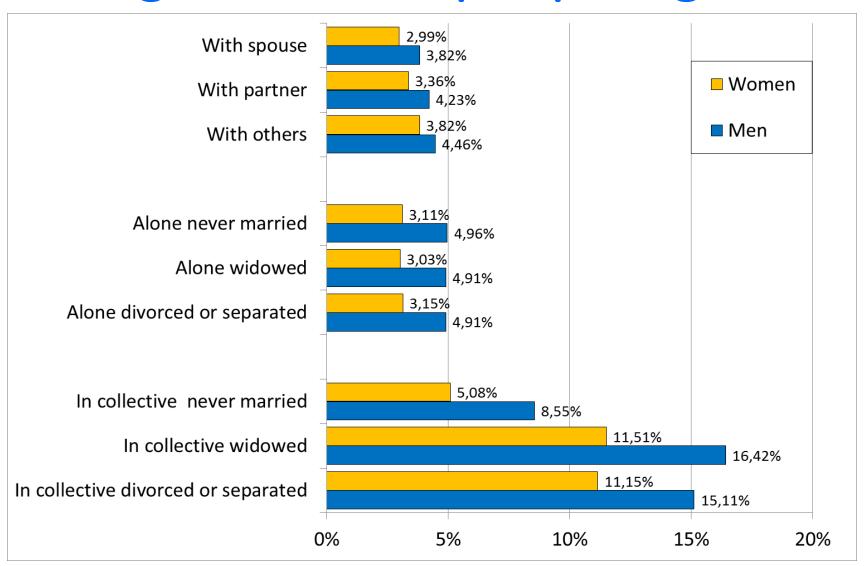
The demographic traits are...

- Age
- Sex
- Marital status
- Living arrangements

Living arrangements: with whom people are living as co-residents

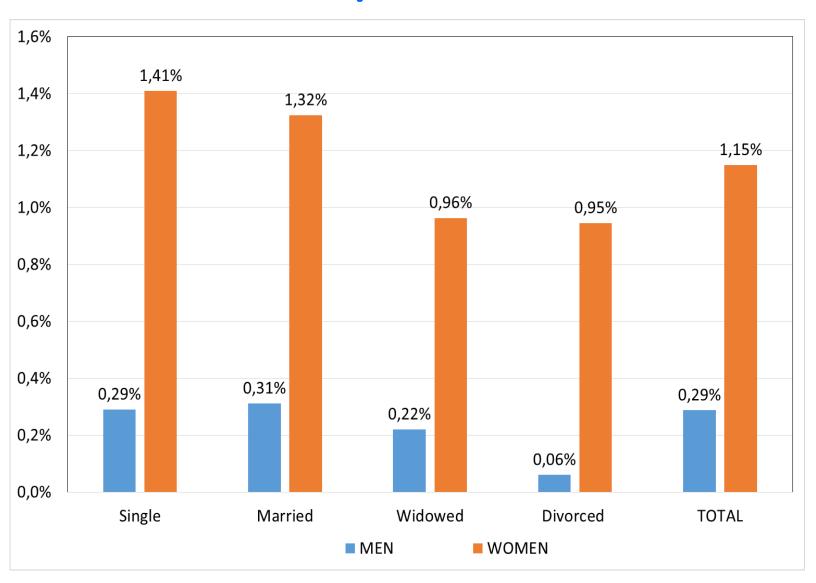
- Living with spouse
- Living with others but not with spouse
- Living alone
- Living in nursing home or other residential facilities for oldest olds
- Living in religious community (monks and nuns)

Annual mortality risk by living arrangements for people aged 60

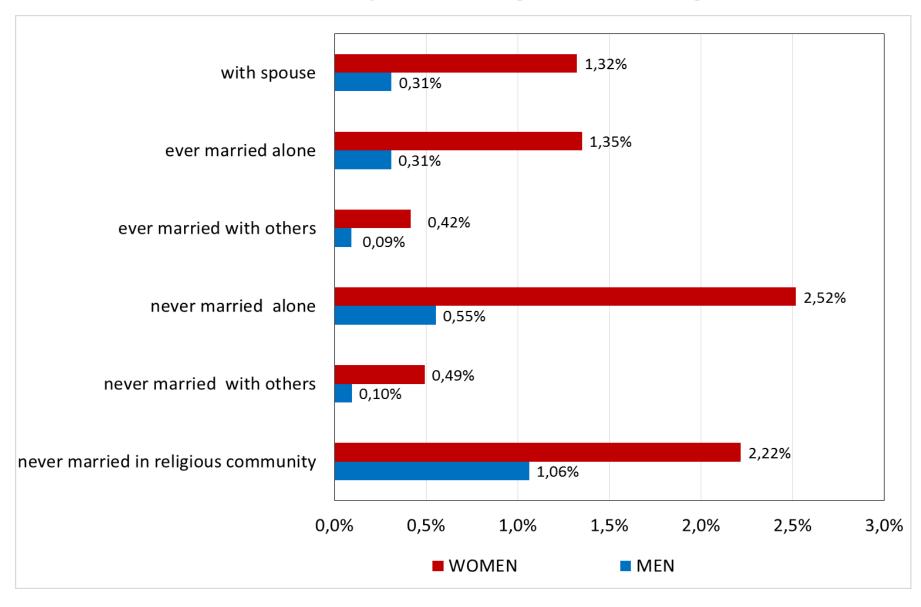


The probability to reach 100 years of age according the status at 60

Survival to 100 by marital status at 60



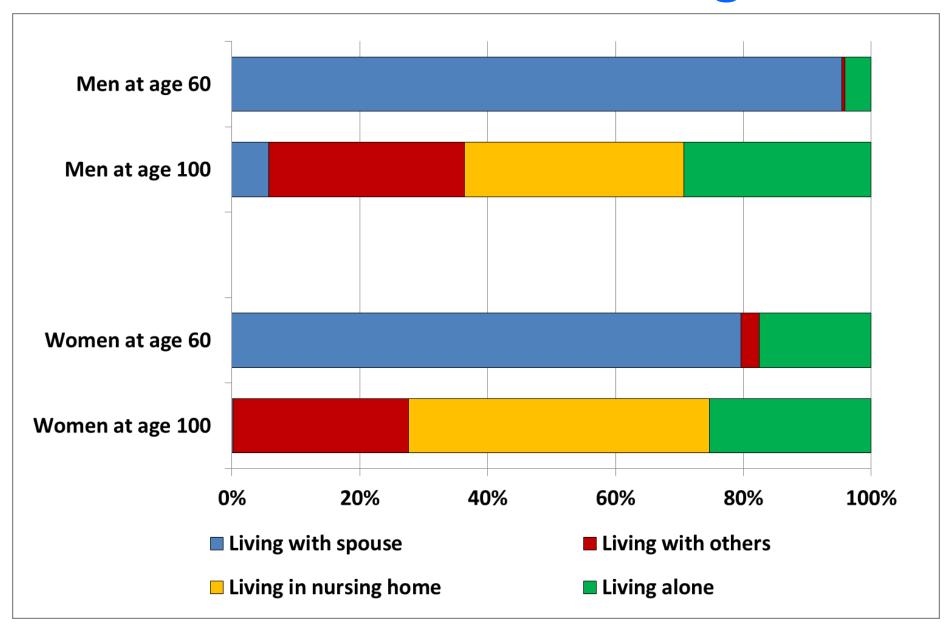
Survival to 100 by living arrangements at 60



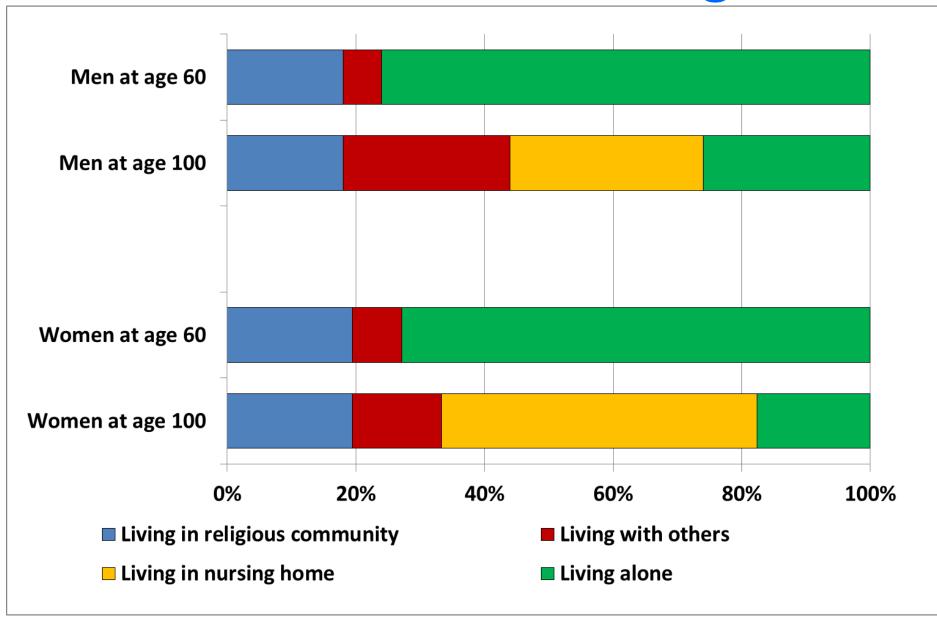
The share by living arrangements of centenarians at 60 and 100

- Ever-married centenarians
- Never-married centenarians

Ever-married Centenarians at ages 60 and 100



Never-married Centenarians at ages 60 and 100



Trajectories of centenarians from age 60 to 100 for those who lived with spouse at age 60

Trajectory (sequence of LAs)	Absolute	number	Perce	ntage
	Women	Men	Women	Men
With spouse until 100	3	39	0.2	6.0
With spouse – alone	411	191	25.8	29.5
With spouse – with others	173	120	10.9	18.5
With spouse – nursing home	83	49	5.2	7.6
With spouse – alone – with others	241	78	15.1	12.0
With spouse – alone – nursing home	491	113	30.8	17.4
With spouse – others – nursing home	49	25	3.1	3.9
With spouse – alone – others – nursing home	141	33	8.9	5.1
Total	1,592	648	100	100

Trajectories of centenarians from age 60 to 100 for those who lived with spouse at age 60

Trajectory (sequence of LAs)	Absolute	number	Perce	ntage
	Women	Men	Women	Men
With spouse until 100	3	39	0.2	6.0
With spouse – alone	411	191	25.8	29.5
With spouse – with others	173	120	10.9	18.5
With spouse – nursing home	83	49	5.2	7.6
With spouse – alone – with others	241	78	15.1	12.0
With spouse – alone – nursing home	491	113	30.8	17.4
With spouse – others – nursing home	49	25	3.1	3.9
With spouse – alone – others – nursing home	141	33	8.9	5.1
Total	1,592	648	100	100

Trajectories of centenarians from age 60 to 100 for those who lived with spouse at age 60

Trajectory (sequence of LAs)	Absolute	number	Perce	ntage
	Women	Men	Women	Men
With spouse until 100	3	39	0.2	6.0
With spouse – alone	411	191	25.8	29.5
With spouse – with others	173	120	10.9	18.5
With spouse – nursing home	83	49	5.2	7.6
With spouse – alone – with others	241	78	15.1	12.0
With spouse – alone – nursing home	491	113	30.8	17.4
With spouse – others – nursing home	49	25	3.1	3.9
With spouse – alone – others – nursing home	141	33	8.9	5.1
Total	1,592	648	100	100

Ever- or never-married centenarians who lived alone at 60

Trajectories from 60 to 100	Ever-married		Never-married		
	Women	Men	Women	Men	
Alone	24.9	28.6	21.6	26.3	
Alone – with others	28.9	28.6	17.6	36.8	
Alone – nursing home	33.4	21.4	38.7	21.1	
Alone – others – nursing home	12.9	21.4	22.1	15.8	
Total	100	100	100	100	

Ever- or never-married centenarians who lived alone at 60

Trajectories from 60 to 100	Ever-married		Never-married		
	Women	Men	Women	Men	
Alone	24.9	28.6	21.6	26.3	
Alone – with others	28.9	28.6	17.6	36.8	
Alone – nursing home	33.4	21.4	38.7	21.1	
Alone – others – nursing home	12.9	21.4	22.1	15.8	
Total	100	100	100	100	

Ever- or never-married centenarians who lived alone at 60

Trajectories from 60 to 100	Ever-married		Never-married		
	Women	Men	Women	Men	
Alone	24.9	28.6	21.6	26.3	
Alone – with others	28.9	28.6	17.6	36.8	
Alone – nursing home	33.4	21.4	38.7	21.1	
Alone – others – nursing home	12.9	21.4	22.1	15.8	
Total	100	100	100	100	

In which living arrangements centenarians lived between ages 60 and 100?

	With spouse	Alone	With others	In nursing home	Total number of years
Men	21.7	10.6	5.9	1.9	40
never-married	-	21.8	13.9	4.3	40
ever-married	23.2	9.8	5.3	1.7	40
Women	10.5	18.7	7.3	3.5	40
never-married	-	24.5	9.4	6.1	40
ever-married	11.9	17.9	7.0	3.2	40

	With spouse	Alone	With others	In nursing home	Total number of years
Men	21.7	10.6	5.9	1.9	40
never-married	_	21.8	13.9	4.3	40
ever-married	23.2	9.8	5.3	1.7	40
Women	10.5	18.7	7.3	3.5	40
never-married	-	24.5	9.4	6.1	40
ever-married	11.9	17.9	7.0	3.2	40

	With spouse	Alone	With others	In nursing home	Total number of years
Men	21.7	10.6	5.9	1.9	40
never-married	-	21.8	13.9	4.3	40
ever-married	23.2	9.8	5.3	1.7	40
Women	10.5	18.7	7.3	3.5	40
never-married	-	24.5	9.4	6.1	40
ever-married	11.9	17.9	7.0	3.2	40

	With spouse	Alone	With others	In nursing home	Total number of years
Men	21.7	10.6	5.9	1.9	40
never-married	-	21.8	13.9	4.3	40
ever-married	23.2	9.8	5.3	1.7	40
Women	10.5	18.7	7.3	3.5	40
never-married	-	24.5	9.4	6.1	40
ever-married	11.9	17.9	7.0	3.2	40

	With spouse	Alone	With others	In nursing home	Total number of years
Men	21.7	10.6	5.9	1.9	40
never-married	-	21.8	13.9	4.3	40
ever-married	23.2	9.8	5.3	1.7	40
Women	10.5	18.7	7.3	3.5	40
never-married	-	24.5	9.4	6.1	40
ever-married	11.9	17.9	7.0	3.2	40

Centenarians: proportion of time lived in each age group and LA from age 60 to 100 (%)

	With spouse	Alone	With others	In nursing home	Total
Men					
from age 60 to 72	83.5	14.4	1.9	0.2	100
from age 73 to 84	61.1	24.2	13.7	1.0	100
from age 85 to 99	25.6	35.8	26.4	12.2	100
Women					
from age 60 to 72	56.8	32.8	10.1	0.3	100
from age 73 to 84	24.1	50.5	23.6	1.8	100
from age 85 to 99	3.8	44.9	29.1	22.2	100

Centenarians: proportion of time lived in each age group and LA from age 60 to 100 (%)

With spouse	Alone	With others	In nursing home	Total
83.5	14.4	1.9	0.2	100
61.1	24.2	13.7	1.0	100
	35.8	26.4	12.2	100
56.8	32.8	10.1	0.3	100
24.1	50.5	23.6	1.8	100
3.8	44.9	29.1	22.2	100
	\$3.5 61.1 25.6 56.8 24.1	spouse Alone 83.5 14.4 61.1 24.2 25.6 35.8 32.8 32.8 24.1 50.5	spouse Alone others 83.5 14.4 1.9 61.1 24.2 13.7 25.6 35.8 26.4 56.8 32.8 10.1 24.1 50.5 23.6	spouse Alone others home 83.5 14.4 1.9 0.2 61.1 24.2 13.7 1.0 25.6 35.8 26.4 12.2 56.8 32.8 10.1 0.3 24.1 50.5 23.6 1.8

Centenarians: proportion of time lived in each age group and LA from age 60 to 100 (%)

	With spouse	Alone	With others	In nursing home	Total
Men					
from age 60 to 72	83.5	14.4	1.9	0.2	100
from age 73 to 84	61.1	24.2	13.7	1.0	100
from age 85 to 99	25.6	35.8	26.4	12.2	100
Women					
from age 60 to 72	56.8	32.8	10.1	0.3	100
from age 73 to 84	24.1	50.5	23.6	1.8	100
from age 85 to 99	3.8	44.9	29.1	22.2	100

Conclusions

Most centenarians lived a significant period of their long life <u>alone</u>, especially in old ages, and more women compared to man.

Half of female centenarians lived in <u>nursing home</u> when reaching age 100 but only one third of male centenarians.

Nevertheless both entered in care facilities <u>very late</u>, at 98 years in average So they did not stay so long in this living arrangement and some even enter after the age of 100.

... and recommendations

For <u>men</u>, living with a spouse as long as possible, and, if widowed, remarrying with a younger wife favors longevity.

For <u>women</u>, staying single and living alone, or loosing a husband very early and thereafter living alone seems beneficial for living longer.

But still the most profitable is to join a religious community.