

ACTIVITY, FRAILITY AND WELL-BEING IN LATER LIFE: A TEN-YEAR LONGITUDINAL STUDY IN SWITZERLAND

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QUESTION

Is continuity in activity engagement related to well-being:
1) when frailty appears?
2) when frailty is worsening (increasing deficiencies)?

SAMPLE

SWILSO-O

(Swiss Interdisciplinary Longitudinal Study on the Oldest Old)

Participants¹⁾ 295 224 190 162 124 99 75 51 42

Mean Age 81.8 83.2 84.2 85.1 86.5 87.9 88.9 89.8 91.4

1994 1995 1996 1997 1999 2000 2001 2002 2004

¹⁾ First cohort, those living at home and directly interviewed

INDICATORS

The two Dimensions of Well-Being

Affective dimension

Affective Well-Being:
Standardised mean index of 8 items measuring frequency of positive and negative affects

Cognitive dimension

Perception of Health:
Standardised mean index of 2 items: self-rating health and frequency of worries about one's own health

Activities

Sum index of regular activities (0-16)

Listen to radio;
Watch television;
Read the newspaper;
Read books or magazines;
Play games with others;
Play solitary games;
Do gardening;
Do craftwork;
Go to walk;
Do physical exercise;
Visit coffees, restaurants;
Participate in trips or outings;
Attend cultural events;
Attend local fairs or celebrations;
Pray;
Attend religious services.

Health Status

Robust (R) no ADL incapacities and not more than one affected dimension of frailty (mobility, memory, energy, physical ailments, sensory capacities)

Frail (F)¹⁾ no incapacities on the ADL, but two or more deficiencies on the dimensions of frailty

¹⁾ ADL-Dependents, having one or more ADL incapacities, have been excluded of analyses

CONCLUSION

The entering into frailty or the worsening in frailty has a deleterious effect on well-being when it is accompanied with a decline in practices; but such a consequence is softened (if not eliminated) when there is a continuity in activity level.

The preservation of the oldest old well-being affected by the frailty process depends on the resources and the capability they have to cope with its impact.

RESULTS

A) Evolution in aggregate mean level of well-being between T_n and T_{n+1} for three types of health and activity trajectories (test of Wilcoxon)
B) Well-being in T_{n+1} by health and activity trajectories (multi-level models)

1) Entry into Frailty (R-F)

	A		B ¹⁾	
	Affective Well-Being	Perception of Health	Affective Well-Being	Perception of Health
Stability in Robustness (R-R) (=ref. group)	→	→		
Entry into Frailty (R-F) with Continuity in Activity	→	→	-0.06	-0.12
Entry into Frailty (R-F) with Decline in Activity	↘	↘	-0.14**	-0.24**

¹⁾ Multi-levels models. *p.<0.05; **p.<0.01; ***p.<0.001
Note. Controlled by gender, socio-economic status, region, age, living alone and well-being in T_n

2) Worsening Frailty (with increasing deficiencies) (F-F+)

	A		B ¹⁾	
	Affective Well-Being	Perception of Health	Affective Well-Being	Perception of Health
Stability in Frailty (F-F) (=ref. group)	→	↗		
Worsening Frailty (F-F+) with Continuity in Activity	→	→	-0.10	-0.05
Worsening Frailty (F-F+) with Decline in Activity	↘	↘	-0.20**	-0.40***

¹⁾ Multi-levels models. *p.<0.05; **p.<0.01; ***p.<0.001
Note. Controlled by gender, socio-economic status, region, age, living alone and well-being in T_n

When frailty appears or is worsening, a continuity in activity is:

A) related with no change in well-being, in contrast with a decline in activity which implies a decrease in well-being;

B) associated with no statistically significant difference in well-being when compared to a stable robustness or a stable frailty, whereas the difference is highly significant in case of a decline in activity.