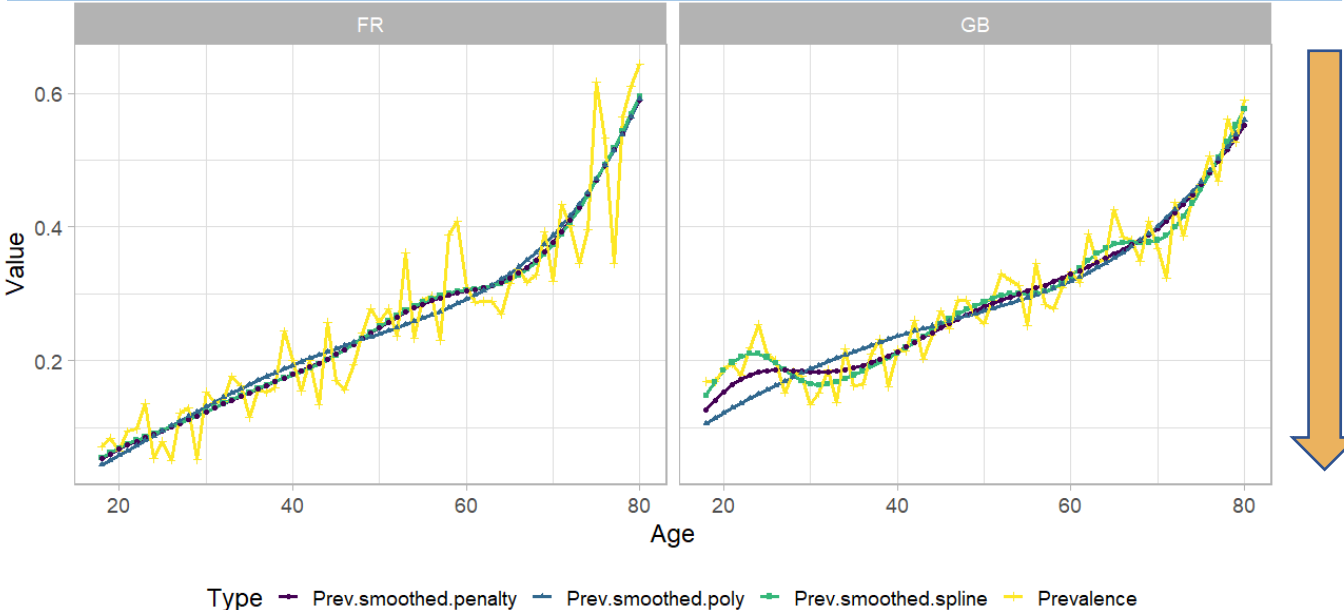


The sensitivity of the Healthy Life Years indicator: Approaches for dealing with age-specific prevalence data

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1. Motivation: age-specific prevalence is complex (noise or reality?)



2. Implications: different HLY values and rates of increase

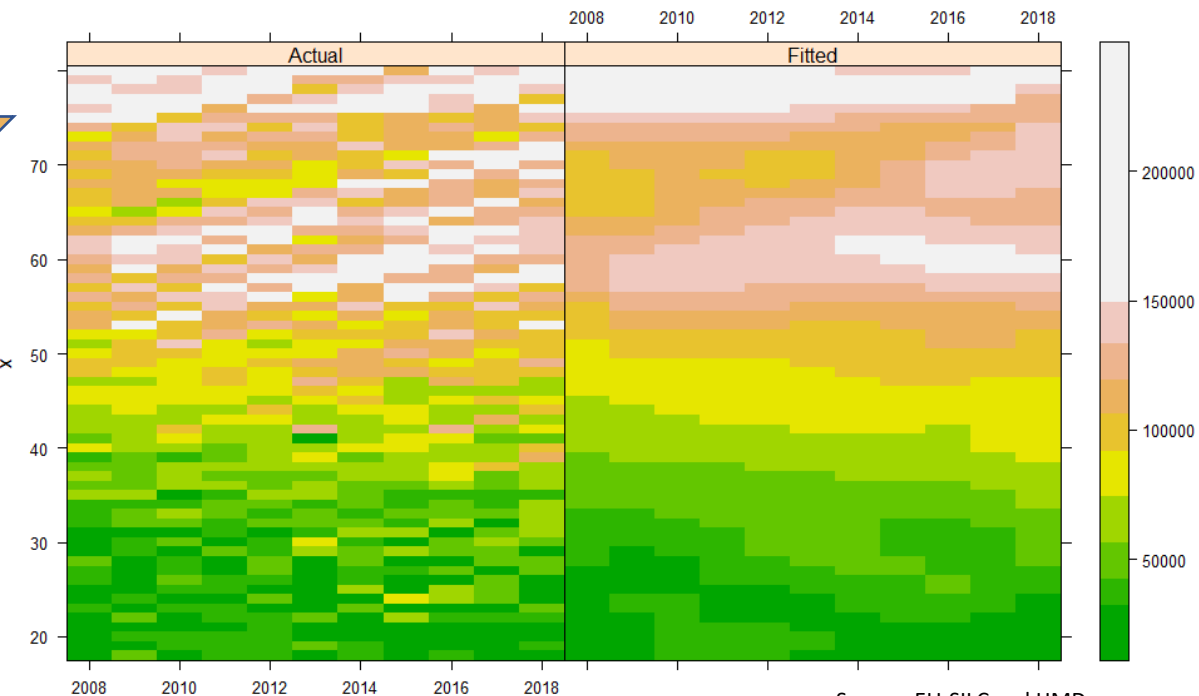
Table 1. HLY by different smoothing methods, year 2017, selected countries

Country	Age	Sex	HLY	Spline diff	Polynomial diff
Denmark	65	F	17.9	18.0 -0.1	18.7 -0.8
Spain	65	M	13.4	12.9 0.5	12.9 0.5
UK	0	M	63.8	64.1 -0.3	64.3 -0.5

3. Forthcoming : bidimensional smoothing, older ages

- There are random fluctuations year after year, so bidimensional smoothing can deal with noise.
- HLY estimates end at ages 80 or 85+. Extrapolate and employ several close-out procedures to evaluate how alternative approaches may affect HLY.

Figure 2. Smoothed age-specific counts of limited persons, France, Women



Source: EU-SILC and HMD

Research Group Health & Longevity. Internet: www.delag.eu