**SUPPLEMENTARY INFORMATION FOR**

**The prevalence and predictors of anxiety and depression in near-centenarians and centenarians: a systematic review**

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**Appendix 1: Search Strategy (run on the 1/07/2018)**

***Search strategy in Ovid Medline (terms were exploded when relevant)***

1. Centenarian\*.mp.
2. Oldest-old.mp.
3. (95 years old and over).mp.
4. Aged 95+.mp.
5. Longevity.mp. or exp LONGEVITY/
6. 1 or 2 or 3 or 4 or 5
7. Mental health.mp. or exp Mental Health/
8. Depress\*.mp.
9. Exp DEPRESSION/
10. Exp ANXIETY/or Anxiety.mp. or exp ANXIETY DISORDERS/
11. 7 or 8 or 9 or 10
12. 6 and 11
13. Limit 12 to (English language and humans and yr=1990-current).

***Search strategy in Ovid Embase (terms were exploded when relevant)***

1. Centenarian\*.mp.
2. Oldest-old.mp.
3. (95 years old and over).mp.
4. Aged 95+.mp.
5. Longevity.mp. or exp LONGEVITY/
6. 1 or 2 or 3 or 4 or 5
7. Mental health.mp. or exp Mental Health/
8. Depress\*.mp.
9. Exp DEPRESSION/
10. Exp ANXIETY/or Anxiety.mp. or exp ANXIETY DISORDERS/
11. 7 or 8 or 9 or 10
12. 6 and 11
13. Limit 12 to (English language and humans and yr=1990-current).

***Search strategy in Ovid PsychInfo (terms were exploded when relevant)***

1. Centenarian\*.mp.
2. Oldest-old.mp.
3. (95 years old and over).mp.
4. Aged 95+.mp.
5. Longevity.mp. or exp LONGEVITY/
6. 1 or 2 or 3 or 4 or 5
7. Mental health.mp. or exp Mental Health/
8. Depress\*.mp.
9. Exp DEPRESSIOn/
10. Exp ANXIETY/ or Anxiety.mp. or exp ANXIETY DISORDERS/
11. 7 or 8 or 9 or 10
12. 6 and 11
13. Limit 12 to (human and English language and yr=1990-current)

***Search strategy in EBSCO CINAHL***

1. Centenarian\*
2. Oldest-old
3. “95 years old and over”
4. “Aged 95+”
5. Longevity
6. (MH “Longevity”)
7. 1 or 2 or 3 or 4 or 5 or 6
8. Mental health
9. (MH “Mental Health”)
10. Depress\*
11. (MH “Depression+”)
12. Anxiety
13. (MH “anxiety+”)
14. (MH “Anxiety disorders+”)
15. 8 or 9 or 10 or 11 or 12 or 13 or 14
16. 7 and 15
17. Limit to English Language, Human and 1990 January.

***Search strategy in SCOPUS***

( TITLE-ABS-KEY ( centenarian\*  OR  "oldest old"  OR  "95 years old and over" )  AND  TITLE-ABS-KEY ( "Mental Health"  OR  depress\*  OR  depression  OR  anxiety  OR  "anxiety disorders" ) )  AND  PUBYEAR  >  1989  AND  ( LIMIT-TO ( EXACTKEYWORD ,  "Human" ) )  AND  ( LIMIT-TO ( LANGUAGE ,  "English" ) )

***Search strategy in Cochrane Library***

Title, abstracts, Keywords

Centenarian\* or Oldest-old or “95 years old and over” or “Aged 95” or Longevity AND “mental health” or mental health or depress\* or anxiety or “anxiety disorders”

Limit from January 1990 to July 2018

**Appendix 2: Modified Newcastle-Ottawa scale for cross-sectional and longitudinal studies**

Selection: (Maximum 3 stars)

1) Representativeness of the sample:

a) Truly representative of the average in the target population. \* (all subjects or random sampling)

b) Somewhat representative of the average in the target population. \* (non-random sampling)

c) Selected group of users.

d) No description of the sampling strategy.

2) Sample size:

a) Justified and satisfactory. \*

b) Not justified.

3) Non-respondents:

a) Comparability between respondents and non-respondents characteristics is established, and the response rate is satisfactory. \*

b) The response rate is unsatisfactory, or the comparability between respondents and non-respondents is unsatisfactory.

c) No description of the response rate or the characteristics of the responders and the non-responders.

Comparability: (Maximum 2 stars)

1) The subjects in different outcome groups are comparable, based on the study design or analysis. Confounding factors are controlled.

a) The study controls for the most important factor (select one). \*

b) The study control for any additional factor. \*

Outcome: (Maximum 3 stars)

1) Assessment of the outcome:

a) Independent assessment. \*\*

c) Self report. \*

d) No description.

2) Statistical test:

a) The statistical test used to analyze the data is clearly described and appropriate, and the measurement of the association is presented, including confidence intervals and the probability level (p value). \*

b) The statistical test is not appropriate, not described or incomplete.

This scale was based on the modified scale used by Herzog *et al.* (2013). It has been adapted from the Newcastle-Ottawa Quality Assessment Scale for cohort studies.