

## Supplementary Material S1: Search strategy

### PUBMED\*

1. Protein intake AND Sarcopenia [MESH] AND Aged [MESH]
2. Protein intake AND Sarcopenia [MESH] AND Older Adults
3. Protein intake AND Sarcopenia [MESH] AND Elderly
4. Protein intake AND Sarcopenia [MESH] AND Seniors
5. Protein consumption AND Sarcopenia [MESH] AND Aged [MESH]
6. Protein consumption AND Sarcopenia [MESH] AND Older Adults
7. Protein consumption AND Sarcopenia [MESH] AND Elderly
8. Protein consumption AND Sarcopenia [MESH] AND Seniors

\*The search was conducted using terms as MESH and free words.

### EMBASE\*

1. Protein intake AND Sarcopenia AND Aged
2. Protein intake AND Sarcopenia AND Older Adults
3. Protein intake AND Sarcopenia AND Elderly

\*All searches were conducted using the filter *Title, Abstract, Author Keywords*

### SCOPUS\*

1. Protein intake AND Sarcopenia AND Aged
2. Protein intake AND Sarcopenia AND Older Adults
3. Protein intake AND Sarcopenia AND Elderly
4. Protein consumption AND Sarcopenia AND Aged
5. Protein consumption AND Sarcopenia AND Older Adults
6. Protein consumption AND Sarcopenia AND Elderly

\*All searches were conducted using the filter *Article title, Abstract, Keywords*

### EBSCO (AgeLine, CINAHL, Food Science Source)

1. Protein intake AND Sarcopenia AND Aged
2. Protein intake AND Sarcopenia AND Older Adults
3. Protein intake AND Sarcopenia AND Elderly
4. Protein intake AND Sarcopenia AND Senior
5. Protein intake AND Sarcopenia AND Geriatrics
6. Protein consumption AND Sarcopenia AND Aged
7. Protein consumption AND Sarcopenia AND Older Adults
8. Protein consumption AND Sarcopenia AND Elderly
9. Protein consumption AND Sarcopenia AND Senior
10. Protein consumption AND Sarcopenia AND Geriatrics

## Supplementary Material S2: Reasons for study exclusion

### Age

1. Celis-Morales, C.; Petermann-Rocha, F.; Chen, M.; Gray, S.R.; Ho, F.K.; Pell, J.P. Factors associated with sarcopenia: A cross-sectional analysis using UK Biobank. *Maturitas* **2020**, *133*, 60–67. <https://doi.org/doi:10.1016/j.maturitas.2020.01.004>.

### Did not assess protein intake

2. Li, C.; Kang, B.; Zhang, T.; Gu, H.; Song, P.; Chen, J.; Wang, X.; Xu, B.; Zhao, W.; Zhang, J. Dietary Pattern and Dietary Energy from Fat Associated with Sarcopenia in Community-Dwelling Older Chinese People: A Cross-Sectional Study in Three Regions of China. *Nutrients* **2020**, *12*, 3689. <https://doi.org/10.3390/nu12123689>.

### Sarcopenia based on muscle mass only

3. Hong, J.; Shin, W.K.; Lee, J.W.; Kim, Y. Relationship Between Protein Intake and Sarcopenia in the Elderly with Nonalcoholic Fatty Liver Disease Based on the Fourth and Fifth Korea National Health and Nutrition Examination Survey. *Metab. Syndr. Relat. Disord.* **2021**, *19*, 452–459. <https://doi.org/10.1089/met.2021.0011>.
4. Oh, C.; Jeon, B.H.; Storm, S.N.R.; Jho, S.; No, J.K. The most effective factors to offset sarcopenia and obesity in the older Korean: Physical activity, vitamin D, and protein intake. *Nutrition* **2017**, *33*, 169–173. <https://doi.org/10.1016/j.nut.2016.06.004>.

## Supplementary Material S3: Quality analysis

<i>Cross-sectional studies</i>															
Authors	1	2	3	4	5	6	7	8	9	10	11	12	13	14	Overall score (0/11)
Beaudart et al. [35]	Y	Y	Y	Y	N	NA	NA	N	Y	NA	Y	NR	NA	Y	7
Das et al. [34]	Y	Y	Y	Y	N	NA	NA	N	Y	NA	Y	NR	NA	Y	7
Jyväkorpi et al. [33]	Y	Y	Y	Y	N	NA	NA	Y	Y	NA	Y	NR	NA	N	7
Montiel-Rojas et al. [32]	Y	Y	Y	Y	N	NA	NA	Y	Y	NA	Y	NR	NA	N	7
Rahman et al. [31]	Y	Y	N	Y	N	NA	NA	N	Y	NA	Y	NR	NA	Y	6
<i>Longitudinal study</i>															
Granic et al. [36]	Y	Y	Y	Y	Y	Y	Y	N	Y	N	Y	NR	N	Y	10
<i>Case-control study</i>															
	1	2	3	4	5	6	7	8	9	10	11	12	Overall score (0/11)		
Veerlan et al. [37]	Y	Y	N	Y	Y	Y	Y	Y	N	Y	N	N	8		

Y= Yes; N= No; NA= Not applicable; NR= Not reported