

Center for Gerontology and Social Science

Forty-eight original papers were published between April and June 2021 as follows.

Department of Preventive Gerontology

- 1) Shimada H, Lee S, Bae S, Hotta R.
A New Life Satisfaction Scale Predicts Depressive Symptoms in a National Cohort of Older Japanese Adults. *Frontiers in Psychiatry*, 11: 625, 2020.
- 2) Doi T, Tsutsumimoto K, Ishii H, Nakakubo S, Kurita S, Shimada H.
Association between Sarcopenia, Its Defining Indices, and Driving Cessation in Older Adults. *Journal of Nutrition Health & Aging*, 25(4): 462-466, 2021.
- 3) Kurita S, Doi T, Tsutsumimoto K, Nakakubo S, Ishii H, Shimada H.
Development of a Questionnaire to Evaluate Older Adults' Total Sedentary Time and Sedentary Time With Cognitive Activity. *Journal of Geriatric Psychiatry and Neurology*: 8919887211006468, 2021.
- 4) Makizako H, Nishita Y, Jeong S, Otsuka R, Shimada H, Iijima K, Obuchi S, Kim H, Kitamura A, Ohara Y, Awata S, Yoshimura N, Yamada M, Toba K, Suzuki T.
TRENDS IN THE PREVALENCE OF FRAILITY IN JAPAN: A META-ANALYSIS FROM THE ILSA-J. *The Journal of Frailty & Aging*, 10(3): 211-218, 2021.
- 5) Huang CH, Umegaki H, Makino T, Uemura K, Hayashi T, Kitada T, Inoue A, Shimada H, Kuzuya M.
Effect of Various Exercises on Intrinsic Capacity in Older Adults With Subjective Cognitive Concerns. *Journal of the American Medical Directors Association*, 22(4): 780-786.e2, 2021.
- 6) Kondo R, Miyano I, Lee S, Shimada H, Kitaoka H.
Association between self-reported night sleep duration and cognitive function among older adults with intact global cognition. *International Journal of Geriatric Psychiatry*, 36(5): 766-774, 2021.
- 7) Doi T, Tsutsumimoto K, Ishii H, Nakakubo S, Kurita S, Shimada H.
Frailty and driving status associated with disability: a 24-month follow-up longitudinal study. *BMJ Open*, 11(4): e042468, 2021.
- 8) Katayama O, Lee S, Bae S, Makino K, Chiba I, Harada K, Shinkai Y, Shimada H.
Participation in Social Activities and Relationship between Walking Habits and Disability Incidence. *Journal of Clinical Medicine*, 10(9): 1895, 2021.
- 9) Blumen HM, Schwartz E, Allali G, Beauchet O, Callisaya M, Doi T, Shimada H, Srikanth V, Verghese J.
Cortical Thickness, Volume, and Surface Area in the Motoric Cognitive Risk Syndrome. *Journal Of Alzheimers Disease*, 81(2): 651-665, 2021.

- 10) Makino K, Lee S, Bae S, Chiba I, Harada K, Katayama O, Shinkai Y, Shimada H.
Absolute Cardiovascular Disease Risk Is Associated With the Incidence of Non-amnestic Cognitive Impairment in Japanese Older Adults. *Frontiers in Aging Neuroscience*, 13(318), 2021.
- 11) Makizako H, [Shimada H](#), [Tsutsumimoto K](#), [Makino K](#), [Nakakubo S](#), [Ishii H](#), [Doi T](#).
Physical Frailty and Future Costs of Long-Term Care in Older Adults: Results from the NCGG-SGS. *Gerontology*, [Epub ahead of print].
- 12) [Makino K](#), [Lee S](#), [Bae S](#), [Chiba I](#), [Harada K](#), [Katayama O](#), [Shinkai Y](#), Makizako H, [Shimada H](#).
Diabetes and Prediabetes Inhibit Reversion from Mild Cognitive Impairment to Normal Cognition. *Journal of the American Medical Directors Association*, [Epub ahead of print].
- 13) Makino T, Umegaki H, Ando M, Cheng XW, Ishida K, Akima H, Oshida Y, Yoshida Y, Uemura K, [Shimada H](#), Kuzuya M.
Effects of Aerobic, Resistance, or Combined Exercise Training Among Older Adults with Subjective Memory Complaints: A Randomized Controlled Trial. *Journal of Alzheimers Disease*, [Epub ahead of print]
- 14) Sugimoto T, Sakurai T, Akatsu H, [Doi T](#), Fujiwara Y, Hirakawa A, Kinoshita F, Kuzuya M, [Lee S](#), Matsuo K, Michikawa M, Ogawa S, Otsuka R, Sato K, [Shimada H](#), Suzuki H, Suzuki H, Takechi H, Takeda S, Umegaki H, Wakayama S, Arai H.
The Japan-multimodal intervention trial for prevention of dementia (J-MINT): the study protocol for an 18-month, multicenter, randomized, controlled trial. *J Prev Alz Dis*, Jun 9 2021. **[Epub ahead of print]**

Department of Frailty Research

- 1) [Kojima M](#), Hasegawa M, Hirata S, Ito H, Kaneko Y, Kishimoto M, Kohno M, Kojima T, Matsushita I, Mori M, Morinobu A, Murashima A, Nishida K, Seto Y, Sobue Y, Sugihara T, Tanaka E, Nakayama T, Kawahito Y, Harigai M.
Patients' perspectives of rheumatoid arthritis treatment: a questionnaire survey for the 2020 update of the Japan college of rheumatology clinical practice guidelines. *Mod Rheumatol*, May 2021.
- 2) Sugihara T, Kawahito Y, Morinobu A, Kaneko Y, Seto Y, Kojima T, Ito H, Kohno M, Nakayama T, Sobue Y, Nishida K, Matsushita I, Murashima A, Mori M, Tanaka E, Hirata S, Kishimoto M, Yamanaka H, [Kojima M](#), Harigai M.
Systematic review for the treatment of older rheumatoid arthritis patients informing the 2020 update of the Japan College of Rheumatology clinical practice guidelines for the management of rheumatoid arthritis. *Mod Rheumatol*, May 2021.
- 3) Ito H, Murata K, Sobue Y, Kojima T, Nishida K, Matsushita I, Kawahito Y, [Kojima M](#), Hirata S, Kaneko Y, Kishimoto M, Kohno M, Mori M, Morinobu A, Murashima A, Seto Y, Sugihara T, Tanaka E, Nakayama T, Harigai M.

Comprehensive risk analysis of postoperative complications in patients with rheumatoid arthritis for the 2020 update of the Japan college of rheumatology clinical practice guidelines for the management of rheumatoid arthritis. *Mod Rheumatol*, Apr 2021.

- 4) Tanaka E, Kawahito Y, Kohno M, Hirata S, Kishimoto M, Kaneko Y, Tamai H, Seto Y, Morinobu A, Sugihara T, Murashima A, Kojima M, Mori M, Ito H, Kojima T, Sobue Y, Nishida K, Matsushita I, Nakayama T, Yamanaka H, Harigai M.

Systematic review and meta-analysis of biosimilar for the treatment of rheumatoid arthritis informing the 2020 update of the Japan College of Rheumatology clinical practice guidelines for the management of rheumatoid arthritis. *Mod Rheumatol*, Apr 2021.

- 5) Tsuji T, Kanamori S, Watanabe R, Yokoyama M, Miyaguni Y, Saito M, Kondo K.

Watching sports and depressive symptoms among older adults: A cross-sectional study from the JAGES 2019 survey. *Sci Rep*, May 2021.

- 6) Kinoshita K, Otsuka R, Takada M, Tsukamoto-Yasui M, Nishita Y, Tange C, Tomida M, Jinzu H, Shimokata H, Kuzuya M, Imaizumi A, Arai H.

Low Amino Acid Score at Breakfast is Associated with Cognitive Decline in Older Japanese Adults in a Community-Based Longitudinal Study. *The Journal of Prevention of Alzheimer's Disease*.

【Epub ahead of print】

- 7) Kinoshita K, Otsuka R, Tange C, Nishita Y, Tomida M, Ando F, Shimokata H, Arai H.

Relationship between Serum Fatty Acids and Physical Frailty in Community-Dwelling Older Japanese Adults. *Journal of Frailty & Aging*, 2021.

- 8) Uno C, Okada K, Matsushita E, Satake S, Kuzuya M.

Friendship-related social isolation is a potential risk factor for the transition from robust to prefrailty among healthy older adults: a 1-year follow-up study. *Eur Geriatr Med*, Apr 2021

Department of Social Science

- 1) Nakagawa T, Hülür G. Life Satisfaction during the Transition to Widowhood among Japanese Older Adults. *Gerontology*, 67 : 338-349, May 4 2021.

- 2) Shimoda M, Kaneko K, Nakagawa T, Kawano N, Otsuka R, Ota A, Naito H, Matsunaga M, Ichino N, Yamada H, Chiang C, Hirakawa Y, Tamakoshi K, Aoyama A, Yatsuya H.

Relationship between fasting blood glucose levels in middle age and cognitive function in later life: The Aichi Workers' Cohort Study. *Journal of Epidemiology*(epub ahead of print) ,May 22 2021.

- 3) Nakagawa T, Cho J, Yeung Y D.

Successful aging in East Asia: Comparison among China, Korea, and Japan. *The Journals of Gerontology: Series B*, 76 : S17-S26, June 8 2021.

- 4) Noguchi T, Nojima I, Inoue-Hirakawa T, Sugiura H.

Association between Social Frailty and Sleep Quality among Community-Dwelling Older Adults: A

- Cross-Sectional Study. *Physical Therapy Research*(epub ahead of print) , April 1 2021.
- 5) Noguchi T, Nojima I, Inoue-Hirakawa T, Sugiura H.
Role of non–face-to-face social contacts in moderating the association between living alone and mental health among community-dwelling older adults: a cross-sectional study. *Public Health*,194 : 25-28, April 10 2021.
 - 6) Noguchi T, Kubo Y, Hayashi T, Tomiyama N, Ochi A, Hayashi H.
Social isolation and self-reported cognitive decline among older adults in Japan: A longitudinal study in the COVID-19 pandemic. *Journal of the American Medical Directors Association*(epub ahead of print) , May 21 2021.
 - 7) Koyama S, Saito M, Cable N, Ikeda T, Tsuji T, Noguchi T, Abbas H, Miyashiro I, Osaka K, Kondo K, G Watt R, Aida, J.
Examining the associations between oral health and social isolation: A cross-national comparative study between Japan and England. *Social Science&Medicine*, Vol.277 113895, May 2021.
 - 8) Noguchi T, Kubo Y, Hayashi T, Tomiyama N, Ochi A, Hayashi H.
Social isolation and self-reported cognitive decline among older adults in Japan: A longitudinal study in the COVID-19 pandemic. *Journal of the American Medical Directors Association*(epub ahead of print) , May 21 2021.
 - 9) Noguchi T, Hayashi T, Kubo Y, Tomiyama N, Ochi A, Hayashi H.
Association between Family Caregivers and Depressive Symptoms among Community-Dwelling Older Adults in Japan: A Cross-Sectional Study during the COVID-19 Pandemic. *Archives of Gerontology and Geriatrics*(epub ahead of print), June 23 2021.

Department of Gerontological Evaluation

- 1) Shiba K, Aida J, Kondo K, Nakagomi A, Arcaya M, James P, Kawachi I.
Mediation of the relationship between home loss and worsened cardiometabolic profiles of older disaster survivors by post-disaster relocation: A natural experiment from the Great East Japan earthquake and tsunami. *Health Place*. 2020 Nov;66:102456. doi: 10.1016/j.healthplace.2020.102456. Epub 2020 Oct 1. 【Epub ahead of print】
- 2) Nagai M, Ohira T, Shirai K, Kondo K.
Does variety of social interactions associate with frequency of laughter among older people? The JAGES cross-sectional study. *BMJ Open*. 2021 Jan 7;11(1):e039363. doi: 10.1136/bmjopen-2020-039363. PMID: 33414141; PMCID: PMC7797251.
- 3) Ahmed A, Ehab S Eshak, Shirai K, Iso H, Kondo K.
Engaging in musical activities and the risk of dementia in older adults: A longitudinal study from the Japan Gerontological Evaluation Study. *Geriatrics & Gerontology International*, Apr 2021 Jun;21(6):451-457.

- 4) Saito K, Shobugawa Y, Aida J, Kondo K.
Frailty is associated with susceptibility and severity of pneumonia in older adults: A JAGES multilevel cross-sectional study. *Scientific Reports*. 11(1):7966, Apr 2021.
- 5) Koyama S, Saito M, Cable N, Ikeda T, Tsuji T, Noguchi T, Abbas H, Myashiro I, Osaka K, Kondo K, Watt G R, Aida J.
Examining the associations between oral health and social isolation: A cross-national comparative study between Japan and England. *Social Science & Medicine*. 277:113895, May 2021. (duplicate listing)
- 6) Tani Y, Fujiwara T, Kondo K.
Adverse Childhood Experiences and Dementia: Interactions With Social Capital in the Japan Gerontological Evaluation Study Cohort. *American Journal of Preventive Medicine*, May 2021. ahead of print.
- 7) Kanamori S, Kondo N, Takamiya T, Kikuchi H, Inoue S, Tsuji T, Kai Y, Muto G, Kondo K.
Social participation and mortality according to company size of the longest-held job among older men in Japan: A 6-year follow-up study from the JAGES. *Journal of Occupational Health*. 63(1):e12216, Apr 2021.
- 8) Tsuji T, Kanamori S, Watanabe R, Yokoyama M, Miyaguni Y, Saito M, Kondo K.
Watching sports and depressive symptoms among older adults: a cross-sectional study from the JAGES 2019 survey. *Sci Rep*. 2021 May 19;11(1):10612. doi: 10.1038/s41598-021-89994-8. PMID: 34011984. (duplicate listing)
- 9) Saito M, Kondo N, Aida J, Saito J, Anezaki H, Ojima T, Kondo K.
Differences in Cumulative Long-Term Care Costs by Community Activities and Employment: A Prospective Follow-Up Study of Older Japanese Adults. *Int J Environ Res Public Health*. 2021 May 19;18(10):5414. doi:10.3390/ijerph18105414.
- 10) Hirai H, Saito M, Kondo N, Kondo K, Ojima T.
Physical Activity and Cumulative Long-Term Care Cost among Older Japanese Adults: A Prospective Study in JAGES. *Int J Environ Res Public Health*. 2021 May 9;18(9):5004. doi: 10.3390/ijerph18095004. PMID: PMC8125926.
- 11) Miyaguni Y, Tabuchi T, Aida J, Saito M, Tsuji T, Sasaki Y, Kondo K.
Community social support and onset of dementia in older Japanese individuals: a multilevel analysis using the JAGES cohort data. *BMJ Open*. 2021 Jun 3;11(6):e044631. doi: 10.1136/bmjopen-2020-044631. PMID: 34083332.
- 12) Kusama T, Nakazawa N, Kiuchi S, Kondo K, Osaka K, Aida J.
Dental prosthetic treatment reduced the risk of weight loss among older adults with tooth loss. *J Am Geriatr Soc*. 2021 Jun 3. doi: 10.1111/jgs.17279. Epub ahead of print. PMID: 34081343.
- 13) Tsubokawa T, Shobugawa Y, Iguchi S, Suzuki T, Watanabe M, Saito R, Kondo K.

Do Community Social Capital and Built Environment Associate With Homebound in Older Adults? The JAGES Niigata Study. *J Epidemiol.* 2021 Jun 11. doi: 10.2188/jea.JE20200154. Epub ahead of print. PMID: 34121046.

- 14) Ozeki S, Takeuchi K, Yasuoka M, Kamiiji K, Kojima T, Waguri-Nagaya Y, Ojima T, Kondo K, Wakai K, Kojima M

Comparison of frailty associated factors between older adult patients with rheumatoid arthritis and community dwellers. *Arch Gerontol Geriatr.* 2021 Jun 2;96:104455. doi: 10.1016/j.archger.2021.104455. Epub ahead of print. PMID: 34126437.

- 15) Iwai-Saito K, Shobugawa Y, Kondo K.

Social capital and pneumococcal vaccination (PPSV23) in community-dwelling older Japanese: a JAGES multilevel cross-sectional study. *BMJ Open.* 2021 Jun 17;11(6):e043723. doi: 10.1136/bmjopen-2020-043723. PMID: 34140341.

Department of Epidemiology of Aging

- 1) Makizako H, Nishita Y, Jeong S, Otsuka R, Shimada H, Iijima K, Obuchi S, Kim H, Kitamura A, Ohara Y, Awata S, Yoshimura N, Yamada M, Toba K, Suzuki T.

Trends in the prevalence of frailty in Japan: A meta-analysis from the ILSA-J. *J Frailty Aging, Dec 22 2020.* 【Epub ahead of print】 (duplicate listing)

- 2) Uchida Y, Mise K, Suzuki D, Fukunaga Y, Hakuba N, Oishi N, Ogawa T, Takahashi M, Takumi Y, Fujimoto S, Maeda Y, Nishizaki K, Noda T, Komune N, Matsumoto N, Nakagawa T, Nishita Y, Otsuka R, Maegawa A, Kimizuka T, Miyata A, Gonda A, Ishikawa K, Higashino Y, Murakami S.

A multi-institutional study of older hearing aids beginners- a prospective single-arm observation on executive function and social interaction. *JAMDA, Mar 31 2021.* 【Epub ahead of print】

- 3) Suigura S, Uchida Y, Nishita Y, Teranishi M, Shimono M, Suzuki H, Nakashima T, Tange C, Otsuka R, Ando E, Shimokata H.

Prevalence of usage of hearing aids and its association with cognitive impairment in Japanese community-dwelling elders with hearing loss. *Auris Nasus Larynx, Apr 14 2021.* 【Epub ahead of print】

- 4) Mizuno T, Matsui Y, Tomida M, Suzuki Y, Nishita Y, Tange C, Shimokata H, Imagama S, Otsuka R, Arai H.

Differences in the mass and quality of the quadriceps with age and sex and their relationships with knee extension strength. *J Cachexia Sarcopenia Muscle, May 19 2021.* 【Epub ahead of print】

- 5) Kinoshita K, Otsuka R, Takada M, Tsukamoto-Yasui M, Nishita Y, Tange C, Tomida M, Jinzu H, Shimokata H, Kuzuya M, Imaizumi A, Arai H.

Low amino acid score of breakfast is associated with the incidence of cognitive impairment in older Japanese adults: A community-based longitudinal study. *J Prev Alz Dis, May 25 2021.* 【Epub ahead

of print】 (duplicate listing)

- 6) Zhang S, Otsuka R, Nishita Y, Nakamura A, Kato T, Iwata K, Tange C, Tomida M, Ando F, Shimikata H, Arai H.

Green tea consumption is associated with annual changes in hippocampal volumes: a longitudinal study in community-dwelling middle-aged and older Japanese individuals. Arch Gerontol Geriat, Jun 1 2021. 【Epub ahead of print】

- 7) Sugimoto T, Sakurai T, Akatsu H, Doi T, Fujiwara Y, Hirakawa A, Kinoshita F, Kuzuya M, Lee S, Matsuo K, Michikawa M, Ogawa S, Otsuka R, Sato K, Shimada H, Suzuki H, Suzuki H, Takechi H, Takeda S, Umegaki H, Wakayama S, Arai H.

The Japan-multimodal intervention trial for prevention of dementia (J-MINT): the study protocol for an 18-month, multicenter, randomized, controlled trial. J Prev Alz Dis, Jun 9 2021. 【Epub ahead of print】 (duplicate listing)