

## Reference

- Aoki, M., & Yasuda, T. (2021). Fact-finding survey of the life plan and fertility knowledge among Japanese high school students. *Journal of Japanese Society of Psychosomatic Obstetrics and Gynecology*, 26 (2), 189-195. <https://search.jamas.or.jp/link/ui/2022266963>
- Adachi, T. (2022). Sex education: Current status and issues of sex education in Japan. *Practice in obstetrics and gynecology*, 71 (10), 1157-1163.
- Akamatsu, R., Ohtake, E., & Shimai, T. (2003). A decisional balance measure and the stages of change model of weight loss: Development and the reliability of the Japanese edition of the Decisional Balance Inventory. *The Japanese Journal of Health Psychology*, 16 (2), 1-9. <https://doi.org/10.11560/jahp.16.2>
- Al Sayah, F., Majumdar, S. R., Williams, B., Robertson, S., & Johnson, J. A. (2013). Health literacy and health outcomes in diabetes: A systematic review. *Journal of General Internal Medicine*, 28 (3), 444-452. <https://doi.org/10.1007/s11606-012-2241-z>
- Arata, N. (2020). What is preconception care? Introduction to preconception care. *Obstetrics and Gynecology*, 87(8), 873-880.
- Arias, A., Ladner, J., & Tavoracci, M. (2022). Perception and coverage of conventional vaccination among university students from rouen (normandy), france in 2021. *Vaccines*, 10 (6), 908. <https://doi.org/10.3390/vaccines10060908>
- Arshad, D., Joyia, U. M., Fatima, S., Khalid, N., Rishi, A. I., Rahim, N. U. A., Bukhari, S. F., Shairwani, G. K. & Salmaan, A. (2021). The adverse impact of excessive smartphone screen-time on sleep quality among young adults: A prospective cohort. *Sleep Science*, 14 (4), 337-341. <https://doi.org/10.5935/1984-0063.20200114>

Atta, C. A., Fiest, K. M., Frolkis, A. D., Jette, N., Pringsheim, T., St Germaine-Smith, C., Rajapakse, T., Kaplan, G. G. & Metcalfe, A. (2016). Global Birth Prevalence of Spina Bifida by Folic Acid Fortification Status: A Systematic Review and Meta-Analysis. *American Journal of Public Health*, 106 (1), e24-34. <https://doi.org/10.2105/AJPH.2015.302902>

Ayele, A. D., Belay, H.G., Kassa, B.G., Worke, M.D. (2021). Knowledge and utilization of preconception care and associated factors among women in Ethiopia: systematic review and meta-analysis. *Reprod Health*, 18 (1), 78. <https://doi.org/10.1186/s12978-021-01132-9>

Baba, K., Niitsu, A., Nishizawa, Y., & Aoki, Y. (2022). Consideration of the diet of young women these days. *Shinshu Journal of Public Health*, 17 (1), 2022.

Barker, D. J. P. (1995). Mothers, Babies and Health in Later Life. Edinburgh: *Churchill Livingstone*, 88 (8), 458.

Berkman, N. D., Sheridan, S. L., Donahue, K. E., Halpern, D. J., & Crotty, K. (2011). Low health literacy and health outcomes: An updated systematic review. *Annals of Internal Medicine*, 155 (2), 97-107. <https://doi.org/10.7326/0003-4819-155-2-201107190-00005>

Botto, L. D., Moore, C. A., Khoury, M. J., & Erickson, J. D. (1999). Neural-tube defects. *The New England Journal of Medicine*, 341 (20), 1509-1519. <https://doi.org/10.1056/NEJM19991113412006>

Bundy, D. A. P., de Silva, N., Horton, S., Patton, G. C., Schultz, L., Jamison, D. T., & Disease Control Priorities-3 Child and Adolescent Health and Development Authors Group. (2018). Investment in child and adolescent health and development: Key messages from disease control priorities, 3rd edition. *Lancet (London, England)*, 391 (10121), 687-699. [https://doi.org/10.1016/S0140-6736\(17\)32417-0](https://doi.org/10.1016/S0140-6736(17)32417-0)

- Bunting, L., Tsubulsky, I., & Boivin, J. (2013). Fertility knowledge and beliefs about fertility treatment: Findings from the international fertility decision-making study. *Human Reproduction (Oxford, England)*, 28 (2), 385-397. <https://doi.org/10.1093/humrep/des402>
- Cha, E., Smart, M. J., Braxter, B. J., & Faulkner, M. S. (2021). Preconception care to reduce the risks of overweight and obesity in women of reproductive age: An integrative review. *International Journal of Environmental Research and Public Health*, 18 (9), 4582. <https://doi.org/10.3390/ijerph18094582>
- De Buhr, E., & Tannen, A. (2020). Parental health literacy and health knowledge, behaviors and outcomes in children: A cross-sectional survey. *BMC Public Health*, 20 (1), 1096-5. <https://doi.org/10.1186/s12889-020-08881-5>
- Domey, E., Boyle, J. A., Walker, R., Hammarberg, K., Musgrave, L., Schoenaker, D., Jack, B. & Black, K. I. (2022). A systematic review of clinical guidelines for preconception care. *Seminars in Reproductive Medicine*, 40 (3-04), 157-169. <https://doi.org/10.1055/s-0042-1748190>
- Endo, T., Suzuki, E., Kuboya, T., Baba, Ayaka (2022). Impact of COVID-19 pandemic on physical activity and lifestyle of university students in Japan “Survey before and after the emergency declaration issued in April 2020”. *Bulletin of Education and Health Sciences, Uekusa-Gakuen University*, 14, 37-43. [https://doi.org/10.24683/uekusad.14.0\\_37](https://doi.org/10.24683/uekusad.14.0_37)
- Elsborg, L., Krossdal, F., & Kayser, K. (2017). Health literacy among Danish university students enrolled in health related study programmes. *Scandinavian Journal of Public Health*, 45 (8), 831-838.
- Eriksson, J., Forsén, T., Tuomilehto, J., Osmond, C., & Barker, D. (2001). Size at birth, childhood growth and obesity in adult life. *International Journal of Obesity and Related Metabolic Disorders. Journal of the International Association for the Study of Obesity*, 25 (5), 735-740. <https://doi.org/10.1038/sj.ijo.0801602>

Fujiwara, T., Ono, M., Iizuka, T., Sekizuka-Kagami, N., Maida, Y., Adachi, Y., Fujiwara, H., & Yoshikawa, H. (2020). Breakfast skipping in female college students is a potential and preventable predictor of gynecologic disorders at health service centers. *Diagnostics (Basel, Switzerland)*, 10 (7), 476. <https://doi.org/10.3390/diagnostics10070476>.

Fukuhara, S., & Suzukamo, Y. (2005). Health-related Quality of Life Scale-SF-8 and SF-36.

Fukuhara, S., & Suzukamo, Y. (Eds.). (2019). Health-related Quality of Life Scale-SF-8 Japanese version of the manual, Qualitest corporation.

Furukawa, Yoko, Itaya, Yumi, Fujihira, Mariko, and Hamano, Hiroka (2021). Preconception care practice and evaluation for high school students. *The bulletin of Graduate School of Human Nursing*, 19, 1-9. [https://doi.org/10.24795/nk019\\_001-009](https://doi.org/10.24795/nk019_001-009)

Gallè, F., Calella, P., Napoli, C., Liguori, F., Parisi, E. A., Orsi, G. B., Liguori, G., & Valerio, G. (2020). Are health literacy and lifestyle of undergraduates related to the educational field? an Italian survey. *International Journal of Environmental Research and Public Health*, 17 (18), 6654. <https://doi.org/10.3390/ijerph17186654>.

Gotoh, D., Aoki, K., Morizawa, Y., Hori, S., Itami, Y., Miyake, M., Torimoto, K., Momose, H. & Fujimoto, K. (2020). A Japanese man with spina bifida who successfully fathered a child following fertility treatment. *IJU Case Report*, 3 (3), 90–92. <https://doi.org/10.1002/iju5.12149>

Hashiya, A., & Hirai, M. (2019). A Concept Analysis of Health Literacy among University Students. *Memoirs of Osaka Kyoiku University: Humanities and Social Science, Natural Science*, 67, 229-234. <https://doi.org/10.32287/TD00031047>

Hensing N., Greaves, L., & Poole, N. (2017). Preconception health care interventions: A scoping review. *Sex Reprod Healthc*, 14, 24-32. <https://doi.org/10.1016/j.srhc.2017.08.004>

- Huang, C. H., Talley, P. C., Lin, C. W., Huang, R. Y., Liu, I. T., Chiang, I. H., Lu, I. C., Lai, Y. C. & Kuo, K. M. (2020). Factors associated with low health literacy among community-dwelling women in Taiwan. *Women & Health*, 60 (5), 487–501. <https://doi.org/10.1080/03630242.2019.1662872>
- Ishibashi, Y., Harada, S., Fujita, T., Fukunaga, K. (2021). Comprehensive and long-term surveys of COVID-19. sequelae in japan, an ambidirectional multicentre cohort study: Study protocol. *BMJ Open Respiratory Research*, 8 (1), e001015. <https://doi.org/10.1136/bmjresp-2021-001015>
- Ishida, T., Nishiyama, M., & Maruyama, A. (2015). Influence of the difference in women's style of working on the habit for healthy eating. *Hort Research*, 69 (2015), 17-23.106(1), e24-34. <https://doi.org/10.2105/AJPH.2015.302902>
- International Confederation of Midwives. (2019). *Essential Competencies for Midwifery Practice 2018. UPDATE*. An official website of the ICN. [https://www.internationalmidwives.org/assets/files/generalfiles/2019/02/icmcompetencies\\_english\\_nal\\_jan-2019-update\\_final-web\\_v1.0.pdf](https://www.internationalmidwives.org/assets/files/generalfiles/2019/02/icmcompetencies_english_nal_jan-2019-update_final-web_v1.0.pdf)
- Imura, N., Yoshida, A., and Oda, M. (2019). Basic survey on body image and dietary intake of the female college students aiming for a registered dietitian. *Bulletin of Shubun University*, 10, 49-58. <https://search.jamas.or.jp/link/ui/2019344048>
- Inoue, K., Kobayashi, M., & Nagasawa, N. (2014). Consideration of effective nutrition education that leads to the improvement of young adult female's desire of slenderness and breakfast skipping. *Bulletin of the Faculty of Human Life Studies, Jumonji University*12, 43-53.
- Iwasa, K., Hirasugi, K., Tatsumi, H., Iwabaki, K., & Kitawaki, J. (2012). Association between BMI and bone mineral density in premenopausal women. *Osteoporosis Japan*, 20 (3), 487-488.
- Johanson, K., Posner, S.F., Biermann J., Cordero, J.F., Atrash, H.K., Parker, C.S., Boulet, S., Curtis, M.G., &

- CDC/ATSDR Preconception Care Work Group; Select Panel on Preconception Care. (2006). Recommendations to improve preconception health and health care—United States. A report of the CDC/ATSDR preconception care work group and the select panel on preconception care. *MMWR.Recommendations and Reports: Morbidity and Mortality Weekly Report. Recommendations and Reports*, 55 (RR-6), 1-23.
- Joshi Suresh, C., Jay, W. & Steven, W. (2022). Nighttime cell phone use and sleep quality in young adults. *Sleep and Biological Rhythms*, 20 (1), 97–106. <https://doi.org/10.1007/s41105-022-00388-3>
- Kamimura, S. (2022). Sex education: Concept and practice of sex education in developed countries. *Practice in obstetrics and gynecology*, 71 (10), 1164-1169.
- Kancherla, V., Wagh, K., Priyadarshini, P., Pachón, H., & Oakley, G. P. J. (2022). A global update on the status of prevention of folic acid-preventable spina bifida and anencephaly in year 2020: 30-year anniversary of gaining knowledge about folic acid's prevention potential for neural tube defects. *Birth Defects Research*, 114 (20), 1392-1403. <https://doi.org/10.1002/bdr2.2115>
- Katayama, Y., Mizuno-Matsumoto, Y., Inada, H. (2014). The relationship between lifestyles and mental health in young adults. *Health Evaluation and Promotion*, 41 (2), 25-35. <https://doi.org/10.7143/jhep.41.283>
- Kawata, S., Hatashita, H., & Kinjo, Y. (2014). Development of a health literacy scale of reproductive age: An examination of reliability and validity among female workers. *Japanese Journal of Public Health*, 61 (4), 18. [https://doi.org/10.11236/jph.61.4\\_186](https://doi.org/10.11236/jph.61.4_186)
- Kitur, H., Horowitz, A. M., Beck, K., & Wang, M. Q. (2022). HPV knowledge, vaccine status, and health literacy among university students. *Journal of Cancer Education: The Official Journal of the American Association for Cancer Education*, 37 (6), 1606-1613. <https://doi.org/10.1007/s13187-021-01997-1>
- Koikawa, N., Shimada, S., Suda, S., Murata A., & Kasai Takatoshi. (2016). Sex differences in subjective sleep

quality, sleepiness, and health-related quality of life among collegiate soccer players.

*Sleep and Biological Rhythms*, 14 (4), 377-386.

Koike, Y., Fujitsuka, S., Sato, K., Motegi, A., Ohkawa, T., Akagi, M., & Sekine, I. (2002). Primary Amenorrhea in an 18-Year Old Patient with Premenarcheal Onset Anorexia Nervosa after Reaching an Appropriate Body Weight. *Clinical Pediatric Endocrinology*, 11 (2), 67-70.  
<https://doi.org/10.1297/cpe.11.67>

Kondo, A., Shimosuga, Y., Oguchi, H., Shibata, K., Kurauchi, O., Ichiko, S., Inoue, H., Tada, K., Yamada, M., Kaseki, N., Narita, O., Kusanishi, H., Yamada, Y., Yamamoto, S., Ooura, K., Takemura, M., Watanabe, T., Ishihara, O., Takeda, A., & Folic Acid Awareness Promoting Group. (2008). Folic acid reduces the risk of neural tube defects: Awareness and folate intake among pregnant women in 2006. *Hinyokika Kyo*, 54 (8), 537-542.

Kondo, A., Okai, I., Hayakawa, C., & Shimosuga, Y. (2009). How to decrease incidence of neural tube defects in Japan: Awareness of a role of folate, intake of folate supplements and dietary folate consumption among pregnant women (2003-2007). *Vitamins (Japan)*, 83 (5-6), 250-255.

Kondo, A., Asada, Y., Shibata, K., Kihira, M., Ninomiya, K., Suzuki, M., Oguchi, H., Hayashi, Y., Narita, O., Watanabe, J. & Shimosuga, Y. (2011). Dietary folate intakes and effects of folic acid supplementation on folate concentrations among Japanese pregnant women. *The Journal of Obstetrics and Gynaecology Research*, 37 (4), 331-336.  
<https://doi.org/10.1111/j.1447-0756.2010.01358.x>

Kondo, A., Tada, K., Wada, S., Yokomine, M., Ishikawa, H., Kato, S., Mimura, K., Myauchi, A., Sase, M., Itoh, T., Morota, N., Ichi, S. (2021). Prevalence of neural tube defects with folic acid: Prevalence, risk factors, folic acid supplementation, and recommendations for the government. *Japan Society of Perinatal and Neonatal Medicine*, 57 (1), 8-18.

- Khan, N. N., Boyle, J. A., Lang, A. Y. & Harrison, C. L. (2019). Preconception Health Attitudes and Behaviors of Women: A Qualitative Investigation. *Nutrients*, 11 (7), 1490. <https://doi.org/10.3390/nu11071490>
- Kilfoyle, K.A., Vitko., M, O'Connor, R., Bailey, S.C. (2016). Health Literacy and Women's Reproductive Health: A Systematic Review. *J Womens Health (Larchmt)*, 25 (12), 1237-1255. <https://doi.org/10.1089/jwh.2016.5810>
- Kitagawa, M., Wakasugi, A., Yasutomo, Y., Ito, Y., & Higure, Y. (2020). A study of thinness desire and nutritional intake status of female university students. *Annual Report of the Institute of Health and Nutrition, Nagoya Gakuzei University*, 12, 1-16.
- Kühn, L., Bachert, P., Hildebrand, C., Kunkel, J., Reitermayer, J., Wäsche, H., & Woll, A. (2022). Health Literacy among university students: A systematic review of cross-sectional studies. *Frontiers in Public Health*, 9, 680999. <https://doi.org/10.3389/fpubh.2021.680999>
- Li, Y., Wang, A., Wu, Y., Han, N., & Huang, H. (2021). Impact of the COVID-19 pandemic on the mental health of college students: A systematic review and meta-analysis. *Frontiers in Psychology*, 12, 669119. <https://doi.org/10.3389/fpsyg.2021.669119>
- Lin, S., Gao, K., Gu, S., You, L., Qian, S., Tang, M., Wang, J., Chen, K. & Jin, M. (2021). Worldwide trends in cervical cancer incidence and mortality, with predictions for the next 15 years. *Cancer*, 127 (21), 4030–4039. <https://doi.org/10.1002/cncr.33795>
- Linna, M. S., Raevuori, A., Haukka, J., Suvisaari, J. M., Suokas, J. T., & Gissler, M. (2014). Pregnancy, obstetric, and perinatal health outcomes in eating disorders. *American Journal of Obstetrics and Gynecology*, 211 (4), 392.e1-392.e8. <https://doi.org/10.1016/j.ajog.2014.03.067>
- Liu, C., Wang, D., Liu, C., Jiang, J., Wang, X., Chen, H., Ju, X., & Zhang, X. (2020). What is the meaning of health literacy? A systematic review and qualitative synthesis. *Family Medicine and Community Health*, 8

(2), e000351. <https://doi.org/10.1136/fmch-000351>

Ma, X., Chen, Q., Pu, Y., Guo, M., Jiang, Z., Huang, W., Long, Y. & Xu, Y. (2020). Skipping breakfast is associated with overweight and obesity: A systematic review and meta-analysis. *Obesity Research & Clinical Practice*, 14 (1), 1-8. <https://doi.org/10.1016/j.orcp.2019.12.002>

Maeda, E., Arata, N., Sato, Y., Mito, A., Kaneko, K., Okazaki, Y., Honda, Y. (2018). Health, Labour and Welfare Science Research Grant (Research Project for Comprehensive Support Policies for Women's Health) A Study of Definition and Goals of Preconception Care in Japan. [https://mhlwgrants.niph.go.jp/system/files/2019/192041/201910002A\\_upload/201910002A0015.pdf](https://mhlwgrants.niph.go.jp/system/files/2019/192041/201910002A_upload/201910002A0015.pdf)

Maeda, E., Sugimori, H., Nakamura, F., Kobayashi, Y., Green, J., Suka, M., Okamoto, M., Boivin, J., & Saito, H. (2015). A cross sectional study on fertility knowledge in japan, measured with the japanese version of cardiff fertility knowledge scale (CFKS-J). *Reproductive Health*, 12, 10-10. <https://doi.org/10.1186/1742-4755-12-10>

Mato, M., & Tsukasaki, K. (2020a). Modeling the factors associating with health-related habits among japanese students. *Health Promotion International*, 34 (2), 300-311. <https://doi.org/10.1093/heapro/dax077>

Mato, M., & Tsukasaki, K. (2020b). Relationship between breakfast consumption and health-related habits among university students in japan. *Japanese Journal of Public Health*, 67 (11), 791-799. [https://doi.org/10.11236/jph.67.11\\_791](https://doi.org/10.11236/jph.67.11_791)

Matsuzaki, K., Hasegawa, H., Takaishi, K., & Toyama, Y. (2006). Analysis of bone metabolism in growing Japanese: Bone mineral density in juvenile-onset anorexia nervosa. *Osteoporosis Japan*, 14 (4), 723-725.

- Maurya, C., Muhammad, T., Maurya, P., & Dhillon, P. (2022). The association of smartphone screen time with sleep problems among adolescents and young adults: Cross-sectional findings from india. *BMC Public Health*, 22 (1), 1686-x.  
<https://doi.org/10.1186/s12889-022-14076-x>
- Miama, S., Machiura, M., & Saho, M. (2013). Actual conditions of eating habits, knowledge about thinness, and values of working women in their 20s and 30s before pregnancy: Comparison of skinny and normal body size groups. *Japanese Journal of Maternal Health*, 53 (4), 522-529.
- Minato-Inokawa, S., Hayashi, I., Nirengi, S., Yamaguchi, K., Takakura, K., Sakane, N., & Nagai Narumi. (2020). Association of Dietary Change during Pregnancy with Large-for-Gestational Age Births: A Prospective Observational Study. *Journal of Nutritional Science and Vitaminology*, 66 (3), 246-254.  
<https://doi.org/10.3177/jnsv.66.246>
- Miyachi, T., Sugano, Y., Tanaka, S., Hirayama, J., Yamamoto, F., & Nomura, K. (2022). COVID-19 vaccine intention and knowledge, literacy, and health beliefs among japanese university students. *Vaccines*, 10 (6), 893. <https://doi.org/10.3390/vaccines10060893>.
- Ministry of Education, Culture, sports, science and Technology japan (MEXT). (2017). *The junior high school curriculum guideline 2017*. An official website of MEXT.  
[https://www.mext.go.jp/a\\_menu/shotou/new-cs/1384661.htm](https://www.mext.go.jp/a_menu/shotou/new-cs/1384661.htm)
- Ministry of Health, Labour and Welfare. (2015). *The National Health and Nutrition Survey in Japan 2015 p61 Smoking status*. An official web site of MHLW. An official web site of MHLW. <https://www.mhlw.go.jp/content/10900000/000687163.pdf>.
- Ministry of Health, Labour and Welfare. (2018), *Comprehensive survey of living conditions. 2018. Number of cervical cancer examinations, by city, town, and village, number of examinations, screening method, and age group*. e-Stat, the government's statistics resource center.

Ministry of Health, Labour and Welfare. (2019a). *The National Health and Nutrition Survey in Japan 2019 p47 Obesity and Thinness Status*. An official web site of MHLW.  
<https://www.mhlw.go.jp/content/10900000/000687163.pdf>

Ministry of Health, Labour and Welfare. (2019b). *The National Health and Nutrition Survey in Japan 2019 p70. Nutrient Intakes - Energy and Nutrient Intakes, by Age Group, Mean, Standard Deviation, and Median Nutrient Intake Survey Results*. An official web site of MHLW.  
<https://www.mhlw.go.jp/content/10900000/000687163.pdf>

Ministry of Health, Labour and Welfare. (2019c). *Distribution of hemoglobin level - Classification of hemoglobin level by age group, number of persons, percentage - males and females, age 20 years and older (Including users of medicines for treatment of anemia). The National Health and Nutrition Survey in Japan 2019 p129*. An official web site of MHLW.  
<https://www.mhlw.go.jp/content/10900000/000687163.pdf>

Ministry of Health, Labour and Welfare. (2019d). *The National Health and Nutrition Survey in Japan 2019. p104 Nutrient Intakes Breakfast, lunch, and dinner, meal status, by age group, number of persons. Median* An official web site of MHLW.  
<https://www.mhlw.go.jp/content/10900000/000687163.pdf>

Ministry of Health, Labour and Welfare. (2019e). *The National Health and Nutrition Survey in Japan 2019 p54. Status of persons with exercise habits*. An official web site of MHLW.  
<https://www.mhlw.go.jp/content/10900000/000687163.pdf>

Ministry of Health, Labour and Welfare. (2019f). *The National Health and Nutrition Survey in Japan 2019. p70. Nutrient Intakes - Energy, Nutrients, etc., by Age Group, Mean, Standard Deviation, Median*. An official web site of MHLW. <https://www.mhlw.go.jp/content/10900000/000687163.pdf>

Ministry of Health, Labour and Welfare. (2019g). *The National Health and Nutrition Survey in Japan 2019 p59. Smoking status*. An official web site of MHLW.

<https://www.mhlw.go.jp/content/10900000/000687163.pdf>

Ministry of Health, Labour and Welfare. (2019h). *The Study Group on the Interim Evaluation, of "Healthy Parents and Children 21 (the 2nd term) p6 Indicator 6: Smoking rate of parents during child care.* <https://www.mhlw.go.jp/content/11908000/000524248.pdf>

Ministry of Health, Labour and Welfare. (2019i). *The Study Group on the Interim Evaluation, of "Healthy Parents and Children 21 (the 2nd term) p7 Indicator 7: Percentage of pregnant women drinking during pregnancy* <https://www.mhlw.go.jp/content/11908000/000524248.pdf>

Ministry of Health, Labour and Welfare. (2020a). *Vital Statistics Fixed Figures: Number of Births, Fertility Rate (in thousands of populations), Fertility Sex Ratio, and Total Fertility Rate by Year.* e-Stat, the government's statistics resource center. <https://www.e-stat.go.jp/dbview?sid=0003411595>

Ministry of Health, Labour and Welfare. (2020b). *Vital statistics Fixed Figures: Average age at marriage and age difference between husband and wife by year for all marriages and first marriages 1918-2020.* Stat, the government's statistics resource center. [https://www.e-stat.go.jp/stat-search/database?statdisp\\_id=0003411844](https://www.e-stat.go.jp/stat-search/database?statdisp_id=0003411844)

Ministry of Health, Labour and Welfare. (2020c). *Vital Statistics Fixed Figures: Average age of father and mother by birth order by year 1950-2020.* e-Stat, the government's statistics resource center. [https://www.e-stat.go.jp/stat-search/database?statdisp\\_id=0003411609](https://www.e-stat.go.jp/stat-search/database?statdisp_id=0003411609)

Ministry of Health, Labour and Welfare. (2020d). *Vital Statistics Fixed Figures: Annual number and percentage of live births and fertility rate by mother's age 1985-2020 (5th age group) (rate per 1000 female population).* e-Stat, the government's statistics resource center. [https://www.e-stat.go.jp/stat-search/database?statdisp\\_id=0003411599](https://www.e-stat.go.jp/stat-search/database?statdisp_id=0003411599)

Ministry of Health, Labour and Welfare. (2020e). *Report of the Study Group on the Formulation of*

- the Dietary Reference Intakes for Japanese (2020 Edition)*. An official website of MHLW. <https://www.mhlw.go.jp/content/10904750/000586553.pdf>
- Ministry of Health, Labour and Welfare. (2020f). “*Promotion of Appropriate Information on Folic Acid Intake for Women of Childbearing Potential to Reduce the Risk of Neural Tube Closure Disorder*”. [https://www.mhlw.go.jp/www1/houdou/1212/h1228-1\\_18.html](https://www.mhlw.go.jp/www1/houdou/1212/h1228-1_18.html).
- Ministry of Health, Labour and Welfare (2021a). “*The Basic Law for Child and Maternal Health and Child Development for the Provision of Medical Care for Live Births, etc*”. <https://www.mhlw.go.jp/content/000735844.pdf>.
- Ministry of Health, Labour and Welfare. (2021b). *Summary of Vital Statistics for Fiscal 2021. Special Report on Vital Statistics p18 Number and composition of births by average birth weight 1985-2019*. An official web site of ministry health labor welfare. <https://www.mhlw.go.jp/toukei/saikin/hw/jinkou/tokusyuu/syussyo07/dl/gaikyou.pdf>
- Ministry of Health, Labour and Welfare. (2022). *the National Health and Nutrition Survey. questionnaire in Japan*. <https://www.mhlw.go.jp/toukei/itiran/gaiyo/k-eisei.html>
- Ministry of Internal Affairs and Communications (MIC). (2020). *Population by sex (as of October 1 of each year) - Total population, Japanese population (2000-2020)*. An official website of MIC. <https://www.e-stat.go.jp/stat-search/files?tclass=000001039703>
- Ministry of Agriculture, Forestry and Fisheries (MAFF). (2022). *Survey on attitudes toward food education 2022*. An official website of AMFF. <https://www.maff.go.jp/j/syokuiku/ishiki.html>
- Mukai, T., Masda, M., Yamamiya, Y. (2018). Dieting behaviors and the media influence in females: A cross-sectional study with females students in an elementary, junior and senior high schools, and college. *The Japanese journal of adolescent psychology*, 30 (1), 41–51.

[https://doi.org/10.20688/jsyap.30.1\\_41](https://doi.org/10.20688/jsyap.30.1_41)

Miyazaki, S. (2016). Guideline for the management of obesity disease 2016. *The journal of the Japanese Society of Internal Medicine*, 107 (2), 262-268.

<https://doi.org/10.2169/naika/107.262>

Nakayama, K., Osaka, W., Togari, T., Ishikawa, H., Yonekura, Y., Sekido, A., & Matsumoto, M. (2015). Comprehensive health literacy in japan is lower than in europe: A validated japanese-language assessment of health literacy. *BMC Public Health*, 15, 505-x.

<https://doi.org/10.1186/s12889-015-1835-x>

Nagusa M, Sasaki A (2020). Preconception care health education for female workers of reproductive age. evaluation up to 3 months after the program. *Japanese Journal of Health Education and Promotion*, 28(2), 81-91. <https://doi.org/10.11260/kenkokyoiku.28.81>

Nakagawara, K., Namkoong, H., Terai, H., Masaki, K., Tanosaki, T., Shimamoto, K., Lee, H., Tanaka, H., Okamori, S., Kabata, H., Chubachi, S., Ikemura, S., Kamata, H., Yasuda, H., Kawada, I., Ishii, M., Nakanishi, J., Suematsu, Y., Arimura, T., Kuwano, T., Shiga, Y., Kitajima, K., Morito, N., Nii, T., Saku, K. & Miura, S. I. (2018). Recommendations of lifestyle modification according to a survey of first year university students. *Journal of Clinical Medicine Research*, 10(10), 772-780.

<https://doi.org/10.14740/jocmr3574w>

National Institute of Infectious disease. (2022, September 30). *IASR Measles Surveillance in Japan*. An official website of the National Institute of Infectious disease.

<https://www.niid.go.jp/niid/ja/typhi-m/iasr-reference/2569-related-articles/related-articles-511/11518-511r07.html>

National Institute of Health and Nutrition. (2022). *Healthy Japan 21 (the Second term) List of Target*. An official web site of NIHN.

<https://www.nibiohn.go.jp/eiken/kenkounippon21/kenkounippon21/mokuhyou.html>

Nawabi, F., Krebs, F., Vennedey, V., Shukri, A., Lorenz, L., & Stock, S. (2021). Health literacy in pregnant women: A systematic review. *International Journal of Environmental Research and Public Health*, 18 (7), 3847. <https://doi.org/10.3390/ijerph18073847>

Nomura Research Institute. (2020). Research Study on the Actual Condition of Infertility Treatment Final Report. p9 number of births. <https://www.mhlw.go.jp/content/000766912.pdf>

Nutbeam, D. (2000). Health literacy as a public health goal: a challenge for contemporary health education and communication strategies in to the 21st century, *HEALTH PROMOTION INTERNATIONAL*, 15 (3), 259-267. <https://doi.org/10.1093/heapro/15.3.259>

Nishiyama, T. (2013). Development of Dietary Pattern Questionnaire for Epidemiological Surveys. [https://www.s-kenko.org/dls/rep\\_h25\\_08.pdf](https://www.s-kenko.org/dls/rep_h25_08.pdf).

Obara T, Nishigori H, Nishigori T, Metoki H, Ishikuro M, Tatsuta N, Mizuno S, Sakurai K, Nishijima I, Murai Y, Fujiwara I, Arima T, Nakai K, Mano N, Yaegashi N, Kuriyama S., & JECS group. (2017). Prevalence and determinants of inadequate use of folic acid supplementation in Japanese pregnant women: the Japan Environment and Children's Study (JECS). *J Matern Fetal Neonatal Med*, 30(5), 588-593. <https://doi.org/10.1080/14767058.2016.1179273>

Organization for Economic Cooperation and Development. (2020). *Balancing paid work, unpaid work and leisure 2020; Unpaid work for men & women, Time spent eating and drinking*. OECD.Stat. [https://stats.oecd.org/Index.aspx?datasetcode=TIME\\_USE](https://stats.oecd.org/Index.aspx?datasetcode=TIME_USE)

Orihara, S. (2000). An attempt to create a self-efficacy scale on diet, smoking and exercise. *Pedagogy. Review/Kokushikan University Educational Society*, 18, 110-116.

Pan, Y., Zhang, S., Wang, O., Shen, H., Zhang, Y., Li, Y., Yan, D., Sun, L. (2016). Investigating the association.

between prepregnancy body mass index and adverse pregnancy outcomes: a large cohort study of 536098 Chinese pregnant women in rural China. *BMJ Open*, 2016 (6), e011227.

<https://doi.org/10.1136/bmjopen-2016-011227>

Peake, J. N., Copp, A. J., & Shawe, J. (2013). Knowledge and periconceptional use of folic acid for the prevention of neural tube defects in ethnic communities in the united kingdom: Systematic review and meta-analysis. *Birth Defects Research. Part A, Clinical and Molecular Teratology*, 97 (7), 444-451.

<https://doi.org/10.1002/bdra.23154>

Publications Office of the European Union (PHAC). (2019). *Publication detail: Sexuality education across the European*. An official website of the European Union.

<https://op.europa.eu/en/publication-detail/-/publication/5724b7d8-764f-11eb-9ac9-01aa75ed71a1>

Public health agency of Canada. (2017). *Family-centred maternity and newborn care: National guidelines chapter2 preconception care*. An official web site of public health agency of Canada. <https://www.canada.ca/content/dam/phac-aspc/documents/services/publications/healthy-living/maternity-newborn-care/maternity-newborn-care-guidelines-chapter-2-eng.pdf>

Rababah, J. A., Al-Hammouri, M. M., Drew, B. L., & Aldalaykeh, M. (2019). Health literacy: Exploring disparities among college students. *BMC Public Health*, 19 (1), 1401-2.

<https://doi.org/10.1186/s12889-019-7781-2>

Rodrigues, V. B., Silva, E. N. d., & Santos, M. L. P. (2021). Cost-effectiveness of mandatory folic acid fortification of flours in prevention of neural tube defects: A systematic review. *PloS One*, 16 (10), e0258488. <https://doi.org/10.1371/journal.pone.0258488>

Runk, L., Durham, J., Vongxay, V., & Sychareun, V. (2017). Measuring health literacy in university students in Vientiane, Lao PDR. *Health Promotion International*, 32 (2017), 360-368.

<https://doi.org/10.1093/heapro/daw087>

- Sase, M., & Fujino, T. (2017). Attitude of pregnant Japanese women and folic acid intake for the prevention of neural tube defect: A nationwide Internet survey. *Journal of Japan Society of Perinatal and Neonatal Medicine*, 53 (1), 99-103.
- Sato, Y., Nakanishi, A., Chiba, T., Umegaki, K. (2014). Achievements and Challenges of Food Education Research in Agricultural Economics and Implications from Relevant Disciplines through Interdisciplinary Literature Review. *Japanese Journal of Public Health*, 61 (7), 321-332. <https://search.jamas.or.jp/link/ui/2014315188>
- Schwarzer, R., & Jerusalem, M. (1995). Generalized Self-Efficacy scale. In J. Weinman, S. Wright, & M. Johnston, *Measures in health psychology: A user's portfolio. Causal and control beliefs* (pp. 35-37). Windsor, UK: NFER-NELSON.
- Shawe, J., Patel, D., Joy, M., Howden, B., Barrett, G., & Stephenson, J. (2019). Preparation for fatherhood: A survey of men's preconception health knowledge and behavior in England. *PloS One*, 14 (3), e0213897. <https://doi.org/10.1371/journal.pone.0213897>
- Shigeta K., Sasada Y., Suzuki K., Kashimura, O. (2008). Effect of desire for slenderness on anemia based on blood levels among young women. *Journal for the integrated study of dietary habits*, 19, 155-162. <https://doi.org/10.2740/jisdh.19.155>
- Shimizu, S., & Dai, Y. (2021). Concept analysis of healthy eating literacy in adolescence and early adulthood. *Japanese journal health education promotion*, 29 (1), 16-27.
- Sørensen, K.; van den Broucke, S.; Fullam, J.; Doyle, G.; Pelikan, J.; Slonska, Z.; Brand, H. (2012). Health literacy and public health: A systematic review and integration of definitions and models. *BMC Public Health*, 12, 80. <https://doi.org/10.1186/1471-2458-12-80>
- Suto, M., Mitsunaga, H., Honda, Y., Maeda, E., Ota, E., & Arata, N. (2021). Development of a health literacy

- scale for preconception care: A study of the reproductive age population in japan. *BMC Public Health*, 21 (1), 2057-0. <https://doi.org/10.1186/s12889-021-12081-0>
- Suzuki, K. (2016). The trends about body image and eating behavior among female college students. *Bulletin of the faculty of health and welfare. Kobe Women's University*, 8, 29-40.
- Takayanagi, Shigemi, Sugiyama, K., & Matsushita, T. (2017). Epidemiological Study on the Actual Condition and Related Factors of Mental Health among College Students. *Journal of health and welfare statistics*, 64 (2), 14-22.
- Takebe K. (2004). A study on the application of the transtheoretical model to the improvement of dietary habits of female students. Master's Thesis, Department of Behavioral Systems, Kyushu University.
- Takimoto, H. (2006). Pregnancy, Nutrition and Metabolism Toward Appropriate Nutritional Management during Pregnancy Current Situation of Undernutrition in Pregnancy and Suggestions for Improvement. 58 (9), 1514-1518. <https://dl.ndl.go.jp/pid/10716498/1/1>
- The world bank. (2020). *Fertility rate, total (births per woman) High income country*. An official website of the world bank. <https://data.worldbank.org/indicator/SP.DYN.TFRT.IN?locations=XD>
- Ueda, M., Stickley, A., Sueki, H., & Matsubayashi, T. (2020). Mental health status of the general population during the COVID-19 pandemic: A cross-sectional national survey in japan. *Psychiatry Clin Neurosci*, 74 (9):505-506. <https://doi.org/10.1101/2020.04.28.20082453>
- United Nations. (2020). *Sustainable development goals*. An official website of United Nations. [https://www.un.org/sustainabledevelopment/wpcontent/uploads/2019/01/SDG\\_Guidelines\\_AUG\\_2019\\_Final.pdf](https://www.un.org/sustainabledevelopment/wpcontent/uploads/2019/01/SDG_Guidelines_AUG_2019_Final.pdf)
- Vamos, S., Yeung, P., Bruckermann, T., Moselen, E F., Dixon, R., Osborne, R.H., Chapa, O., & Stringer, D.

- (2016). Exploring Health Literacy Profiles of Texas University Students. *Health Behavior Policy Review*, 3 (3), 209-225. <https://doi.org/10.14485/HBPR.3.3.3>
- WHO. (2012a). *Meeting to develop a global consensus on preconception care to reduce maternal and childhood mortality and morbidity: World Health Organization Headquarters, Geneva 6–7 February 2012 Meeting report*. An official website of WHO. [https://apps.who.int/iris/bitstream/handle/10665/78067/9789241505000\\_eng.pdf?sequence=1&isAllowed=y](https://apps.who.int/iris/bitstream/handle/10665/78067/9789241505000_eng.pdf?sequence=1&isAllowed=y)
- WHO. (2012b). *PROGRAMME ON MENTAL HEALTH WHOQOL User Manual*. An official website of WHO. <https://www.who.int/toolkits/whoqol>
- WHO. (2013). *Preconception care regional expert group consultation 6-8 August 2013, New Delhi, India 3 proceedings p10*. An official website of WHO. [file:///C:/Users/SLIU\\_User/Downloads/B5124%20\(2\).pdf](file:///C:/Users/SLIU_User/Downloads/B5124%20(2).pdf)
- Withanage, N. N., Botfield, J. R., Srinivasan, S., Black, K. I., & Mazza, D. (2022). Effectiveness of preconception interventions in primary care: A systematic review. *The British Journal of General Practice: The Journal of the Royal College of General Practitioners*, 72 (725), e865-e872. <https://doi.org/10.3399/BJGP.2022.0040>
- Yamato, T., Aomine, Y. (2002). Physical Characteristics and Living Environment in Female Students with Cold Constitution. *Health Evaluation and Promotion*, 29(5),878-884.
- Yamamoto, S., & Wada, Y. (2018). Awareness, use and information sources of folic acid supplementation to prevent neural tube defects in pregnant Japanese women. *Public Health Nutrition*, 21 (4), 732-739. <https://doi.org/10.1017/S1368980017003172>
- Yamamoto, R., Tomi, R., Shinzawa, M., Yoshimura, R., Ozaki, S., Nakanishi, K., Ide, S., Nagatomo, I., Nishida, M., Yamauchi-Takahara, K., Kudo, T. & Moriyama, T. (2021). Associations of skipping breakfast,

lunch, and dinner with weight gain and overweight/obesity in university students: A retrospective cohort study. *Nutrients*, 13 (1), 271. <https://doi.org/10.3390/nu13010271>

Yamashita, K., Kanba, H., Nakamura, H., and Maruyama, S. (2019). Smoking status of pregnant women and their family members living with them, evaluation of their attitudes toward smoking, and changes before and after the smoking cessation awareness lecture. *Japanese Journal for tobacco control*, 14(1), 4-11.

Yasutomo, Y., Yamanaka, M., Tachibana, E., Tsukahara, K., & Kitagawa, M. (2015). Study of body image and nutritional intake status among female students. *Annual Report of Institute of Health and Nutrition, Nagoya University of Arts and Sciences*, 7, 15-24.

Yomoda K., Soejima A. (2022). Relationship between sleep habits and lifestyle habits during online schooling due to COVID-19 pandemic among university students. *THE NAGOYA GAKUIN DAIGAKU RONSHU; Journal of Nagoya Gakuin University; MEDICAL, HEALTH, and SPORTS SCIENCES*, 10(1), 63-74. <https://doi.org/10.15012/00001396>

Zaçe, D., LA Gatta, E., Orfino, A., Viteritti, A. M., & DI Pietro, M. L. (2022). Knowledge, attitudes, and health status of childbearing age young women regarding preconception health - an Italian survey. *Journal of Preventive Medicine and Hygiene*, 63 (2), E270-E281. <https://doi.org/10.15167/2421-4248/jpmh2022.63.2.2571>

Zheng, M., Jin, H., Shi, N., Duan, C., Wang, D., Yu, X., & Li, X. (2018). The relationship between health literacy and quality of life: A systematic review and meta-analysis. *Health and Quality of Life Outcomes*, 16(1), 201-7. <https://doi.org/10.1186/s12955-018-1031-7>