

保健医療学域

Nursing Science and Engineering

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URL

Other Faculty Members

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Major Scientific Interests of the Group

In the current medical care system, evidence-based medical practice is considered as the standard. Evidence-based practice of nursing is also required in the area of nursing. Our research group aimed to evaluate nursing practice objectively and investigate its safety and evidence of such safety by conducting a research that integrated medicine, science and, engineering. Further, we developed new technology and equipment by focusing on clinical needs, heeding the medical staff's voices such as *we could provide better care if certain equipment was available*. Our research has been guided by a respect for the viewpoints of clients, particularly those of women and children.

Projects for Regular Students in Doctoral or Master's Programs

- 1) Verification of a pelvic floor muscle training for a female pelvis bottom functional disorder
- 2) Change of female hormone and the quantitative evaluation of a cerebral blood flow
- 3) Research on the mental health of a maternal period, and the women's health nursing
- 4) Relationship between nursing practice and intelligence activities

Study Programs for Short Stay Students (one week – one trimester)

- 1) Study of Nursing Science and Engineering
- 2) Study of mental health of a maternal period, and the women's health nursing

Selected Publications

- 1) Okayama H, Ninomiya S, Naito K, Endo Y, Morikawa S. Effects of wearing supportive underwear versus pelvic floor muscle training or no treatment in women with symptoms of stress urinary incontinence: an assessor-blinded randomized control trial. *Int Urogynecol J*. 2019 Jan 9. DOI: 10.1007/s00192-018-03855-z.
- 2) Ninomiya S, Naito K, Nakanishi K, Okayama H: Prevalence and risk factors of urinary incontinence and overactive bladder in Japanese women. *Lower Urinary Tract Symptoms*, 2017 Aug 1. 1-7, DOI: 10.1111/luts.12185
- 3) Ninomiya S, Saito I, Masaki K, Endo Y, Morikawa S, Okayama H: Single-Arm Pilot Study to Determine the Effectiveness of the Support Power of Underwear in Elevating the Bladder Neck and Reducing Symptoms of Stress Urinary Incontinence in Women. *Lower Urinary Tract Symptoms*, 6(2), 2014, 81–87, DOI: 10.1111/lits.12023.
- 4) Asano Y, Kawaguchi T: Preliminary study of effect of readiness on circulatory regulation when standing up from low chair. *Journal of Nursing Science and Engineering*, 2(3)180-187, 2015.
- 5) Mizuno M, Asano Y, Sumi T, Inoue Y: Adaptation Status and Related Factors at 2 Time Points After Surgery in Patients With Gastrointestinal Tract Cancer. *Cancer Nursing*, 34(1), 41-48, 2011.
- 6) Asano Y: Air Change Rate near Patient Model in Unidirectional Airflow of Biological Clean Room: An Experimental Study. *Erozoru Kenkyu*, 24(1), 30-38, 2009

Oncology Nursing

Principal Investigator Michiyo Mizuno

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Major Scientific Interests of the Group

The main research topic of our team is the quality of life and physical and psychological wellbeing in cancer patients/survivors. We are trying to test the effect of support for cancer survivors' self-management.

Projects for Regular Students in Doctoral or Master's Programs

- 1) Quality of Life of Cancer Patients
- 2) Palliative Care and Spiritual Care for Cancer Patients

Study Programs for Short Stay Students (one week – one trimester)

Preparation in progress

Selected Publications

- 1) M. Mizuno: The changes and strategies adopted by the public health services and medical society in Japan. In Z. Lin (Eds.), *Asian Voices: Asian and Asian American health educators speak out*. Jones and Bartlett MA, 146-167, 1999
- 2) M. Mizuno, C. Onishi, F. Ouishi: Truth Disclosure of Cancer Diagnoses and Its Influence on Bereaved Japanese Families. *Cancer Nursing*, Vol.25, 396-403, 2002
- 3) M. Mizuno, H. Arita, M. Kakuta: Needs of Ambulatory Patients with Cancer Who Visited Outpatient Units in Japanese Hospitals. *Oncology Nursing Forum*, Vol.32, E63-E69, 2005
- 4) M. Mizuno, M. Kakuta, Y. Ono, A. Kato, Y. Inoue: Colorectal Cancer Patients' Perceptions of and Attitudes Toward Experiences During the First Six Months After Surgery. *Oncology Nursing Forum*, Vol.34, 2007
- 5) M. Mizuno, M. Kakuta, Y. Ono, A. Kato, Y. Inoue: Sense of Coherence, Demands of Illness, and Social Support Affects Quality of Life after Surgery in Patients with Gastrointestinal Tract Cancer. *Oncology Nursing Forum*, Vol.36, (p.E1-E9) 2009
- 6) M. Mizuno, Y. Asano, T. Sumi, Y. Inoue: Adaptation Status and Related Factors at 2 Time Points After Surgery in Patients with Gastrointestinal Tract Cancer. *Cancer Nursing*. Vol. 34: 41-48, 2011.
- 7) M. Mizuno, J. Kataoka, F. Oishi: Relationship between the Physical and Psychosocial Conditions of Postoperative Gastrointestinal Cancer Patients and their Responses to an Informational Material, *Asia-Pacific Journal of Oncology Nursing*, 4(1), 53-60, 2017.
- 8) M. Mizuno, J. Kataoka, F. Oishi: Longitudinal Study on Quality of Life and Psychosocial Conditions in Light of Responses to Illness-Related Information in Postoperative Cancer Patients, *Asia-Pacific Journal of Oncology Nursing*, 5(2) 208-206, 2017.
- 9) M. Mizuno, K. Sugimoto, T. Mayers, & C. E. Ferrans: Ensuring Cultural and Cognitive Integrity in Instrument Translation: Quality of Life Index for Japanese Cancer Patients. *Asia-Pacific Journal of Oncology Nursing*, 6(1) 64-71 13, 2018.

Psychiatric and Mental Health Nursing

Principal Investigator Chizuru Mori

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Major Scientific Interests of the Group

1. Rehabilitation Nursing for Patients with Mental Health disorders
2. Nursing Care for Drug and Alcohol Addicts
3. Study on Nursing for Eating Disorders
4. Child and Adolescent Psychiatric Nursing
5. Nursing Education

Projects for Regular Students in Doctoral or Master's Programs

- 1) Nursing intervention program for people with mental disorders
- 2) Development of psychological scale on nursing
- 3) Concepts and theories on psychiatric and mental health nursing
- 4) Investigation of current situation concerning psychiatric and mental health nursing

Study Programs for Short Stay Students (one week – one trimester)

- 1) Critique and discussion on psychiatric and mental health nursing papers and research

Selected Publications

- 1) **Sugaya T, Mori C.** A Study of Self-esteem in Junior High School Students with Mental Disorders: Relationship between social skills and sense of belonging. **Clinical Psychiatry**, 60, 1283-1292, 2018.
- 2) Nakatani S, **Mori C.** Relationship Between Nurses' Communication Skills and Their Self-Efficacy and Professional Autonomy. **Journal of Japan Society of Nursing Research**, 41(2), 171-183, 2018.
- 3) Fukuta D, **Mori C.** Intervention program to improve executive functions and enhance planning abilities of patients with mild cognitive disorder. **Rehabilitation Nursing**, 2018.
- 4) Tanaka R, **Mori C.** Evaluating the Efficacy of a Program for Increasing Self-Efficacy in Methamphetamine Psychotic In-Patients. **Japan Journal of Study in Addiction Nursing**, 15(2), 3-12, 2018.
- 5) Adachi H, **Mori C.** Structure of stress management in the elderly with depression. **Journal of Academy of Nursing Education Research**, 10(1), 3-15, 2018.
- 6) Sugawara H, **Mori C.** The self-concept of person with chronic schizophrenia in Japan. **Neuropsychopharmacology Reports**, 2018
- 7) Sumi T, **Mori C.** Developing an ethical sensitivity scale for clinical nurses, and reviewing its reliability and adequacy. **Journal of Japanese Nursing Ethics**, 10(1), 36-44, 2018.
- 8) Sato R, **Sugaya T, Mori C.** Feelings to Emotional Expression of Nurses in Medical Treatment and Supervision Act Ward: By interviews after Training Utilizing Emotion. **Journal of Practical Human Service**, 9, 33-40, 2018.
- 9) **Sugaya T, Mori C.** Interpersonal Relations and the Sense of Belonging in Junior High School Students with Mental Disorders. **Japanese Journal of Child and Adolescent Psychiatry**, 59(1), 86-99, 2018.
- 10) Omori Y, **Mori C**, White A H. Self-Stigma in Schizophrenia: A Concept Analysis. **Nursing Forum**, 49(4), 259-266, 2014.

International Community Care and Lifespan Development: Empowerment Sciences

Principal Investigator Tokie Anme, PhD.
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Major Scientific Interests of the Group

- 1) Community empowerment
- 2) Plasticity of lifespan development and implications
- 3) System sciences for health social services

Projects for Regular Students in Doctoral or Master's Programs

- 1) Cross-Cultural Perspectives on Community Care and Health-Social Services
- 2) Lifespan Development and Environment
- 3) Health Promotion and Community Empowerment
- 4) Child and Elderly Abuse Prevention
- 5) Human Interface with Universal Design: Artificial Intelligence, Assistive devices, Housing, and Community Environments

Study Programs for Short Stay Students (one week – one trimester)

- 1) Cross-Cultural Perspectives on Community Care and Health-Social Services
- 2) Health Promotion and Community Empowerment

Selected Publications

- 1) Empowerment science for professionals enhance inclusion and a world of possibilities, Nihon Shoni iji Shuppansyuh, 2018
- 2) Cunyoen Kim, Bailiang Wu, Emiko Tanaka, Taeko Watanabe, Kumi Watanabe, Wencan Chen, Sumio Ito, Rika Okumura, Tetsuaki Arai, Anme Tokie, Association between a Change in Social Interaction and Dementia among Elderly People, International Journal of Gerontology, 2016
- 3) Yusuke Takahashi, Kensuke Okada, Takahiro Hoshino, Tokie Anme, Developmental Trajectories of Social Skills during Early Childhood and Links to Parenting Practices in a Japanese Sample, PLOS ONE, 2015
- 4) Lian Tong, Ryoji Shinohara, Yuka Sugisawa, Emiko Tanaka, Taeko Watanabe, Tokie Anme, The buffering effect of parental engagement on the relationship between corporal punishments and children's emotional/behavioral problems, Pediatrics International, 2015
- 5) Culture, Care and Community Empowerment: International Applications of Theory and Methods, Kawashima Press, 2008

Public Health and Public Health Nursing

Principal Investigator Tomoko Sankai

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Other Faculty Members

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Major Scientific Interests of the Group

Researches on public health, public health nursing, epidemiology, occupational health and school health

Projects for Regular Students in Doctoral or Master's Programs

- 1) Epidemiological research on lifestyle-related diseases, especially cardiovascular disease and stroke
- 2) Long-term conducting cohort surveys and surveillances
- 3) Practical activities of disease prevention, such as health education

Selected Publications

- 1) Sankai T, Yamagishi K, Matsumura T, Iso H. Trends in Five-Year Survival Rates in Elderly People after Cerebral Stroke from 1981 to 2010 in a Japanese Rural Community. *The Asian Journal of Disable Sociology* 2017; 16:1-9.
- 2) Jinnouchi H, Kitamura A, Yamagishi K, Kiyama M, Imano H, Okada T, Cui R, Umesawa M, Muraki I, Hayama-Terada M, Kawasaki R, Sankai T, Ohira T, Iso H; for the CIRCS Investigators. Retinal vascular changes and prospective risk of disabling dementia: the Circulatory Risk in Communities Study (CIRCS). *J Atheroscler Thromb* 2017; 48:253-258.
- 3) Kitamura A, Yamagishi K, Imano H, Kiyama M, Cui R, Ohira T, Umesawa M, Muraki I, Sankai T, Saito I, Iso H; for the CIRCS Investigators. Impact of hypertension and subclinical organ damages on the incidence of cardiovascular disease among Japanese residents at the population and individual levels: The Circulatory Risk in Communities Study (CIRCS). *Circ J* 2017; 81:1022-1028.
- 4) Hori M, Kitamura A, Kiyama M, Imano H, Yamagishi K, Cui R, Umesawa M, Muraki I, Okada T, Sankai T, Ohira T, Saito I, Tanigawa T, Iso H; for the CIRCS Investigators. Fifty-year time trends in blood pressures, body mass index and their relations in a Japanese community: The Circulatory Risk in Communities Study (CIRCS). *J Atheroscler Thromb* 2017; 24:518-529.
- 5) Hayama-Terada M, Muraki I, Imano H, Kiyama M, Okada T, Yamagishi K, Cui R, Ohira T, Umesawa M, Sankai T, Sato S, Kitamura A, Iso H; for the CIRCS Investigators. Diabetes trends and impact on risk of cardiovascular disease in middle-aged Japanese people: the CIRCS Study. *Circ J* 2016; 80:2343-2348.
- 6) Kitamura A, Sankai T, Konishi M, Sato S, Imano H, Ohira T, Naito Y, Iso H, Tanigawa T, Yamagishi K, Saito M, Kishi M, Yamazaki T, Iida M, Shimamoto T. Trends for stroke incidence, severity, and prognosis in a rural community with a long-term stroke prevention program. *Jpn J Pub H* 2004;51:3-12. (in Japanese)
- 7) Sankai T, Iso H, Shimamoto T, Kitamura A, Naito Y, Sato S, Okamura T, Imano H, Iida M and Komachi Y. Prospective study on alcohol intake and risk of subarachnoid hemorrhage among Japanese men and women. *Alcoholism: Clin Experiment Res* 2000; 24:386-389.
- 8) Sankai T, Iso H, Shimamoto T, Kitamura A, Naito Y, Sato S, Okamura T, Imano H, Iida M, Komachi Y. Cohort study on risk factors for subarachnoid hemorrhage among Japanese men and women. *Jpn J Hyg* 1999; 53:587-595. (in Japanese)
- 9) Sanaki T, Iso H, Imano H, Ohira T, Tanigawa T, Shimamoto T, Kitamura A, Sato S, Naito Y, Kiyama M, Okamura

- T, Nakagawa Y, Iida M, Komachi Y. Survival and disability in stroke by stroke subtype based on computed tomographic findings in three rural Japanese communities. *Jpn J Pub H* 1998; 45:536-551. (in Japanese)
- 10) Kitamura A, Iso H, Sankai T, Naito Y, Sato S, Kiyama M, Okamura T, Nakagawa N, Iida M, Shimamoto T, Komachi Y. Alcohol intake and premature coronary heart disease in urban Japanese men. *Am J Epidemiol* 1998; 147:59-65.
 - 11) Sankai T, Iso H, Shimamoto T, Kitamura A, Naito Y, Sato S, Kiyama M, Iida M, Komochi Y. Changes in cardiovascular risk factors related with menopause in rural Japanese women. *J Epidemiol* 1995; 5:23-28.
 - 12) Sankai T, Iso H, Shimamoto T, Miyagaki T, Iida M, Tanigaki M, Naito Y, Sato S, Kiyama M, Kitamura A, Konishi M, Terao A, Doi M, Kojima S, Komachi Y. A nested case-control study of risk factors for intracerebral hemorrhage and cerebral infarction classified by computed tomographic findings. *Jpn J Pub H* 1992; 39:410-420. (in Japanese)
 - 13) Sankai T, Miyagaki T, Iso H, Shimamoto T, Iida M, Tanigaki M, Naito Y, Sato S, Kiyama M, Kitamura A, Konishi M, Terao A, Doi M, Komachi Y. A population-based study of the proportion by type of stroke determined by computed tomography scan. *Jpn J Pub H* 1991; 38:901-909. (in Japanese)

Global Health Nursing

Principal Investigator Professor Asako Takekuma Katsumata

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Major Scientific Interests of the Group

Clinical Nurse Leader, Respectful maternity care, Primary Health Care

Projects for Regular Students in Doctoral or Master's Programs

1. Nursing Leadership
2. Safety and Quality of care; Process improvement
3. Palliative Care
4. Postpartum depression; Posttraumatic stress
5. Respectful maternity care; “WHO recommendations: intrapartum care for a positive childbirth experience”
6. Nursing support for foreign patients; cultural competency

Study Programs for Short Stay Students (one week – one trimester)

1. Global health leadership program for nurses

Selected Publications

- 1) **Katsumata, A.T.** Why diversity is critical in nursing workforce? 28(8), 688-691. (2018).
- 2) Chikada, A., **Katsumata, A.T.**, Asase, M., Takenouchi, S., Arakawa, Y., and Nin, K. Lived experience in patients with recurrent glioblastoma in Japan: A narrative study. *Asian/Pacific Island Nursing Journal*, 2(4), 157-165.
- 3) **Sugimoto, K.** Pelvic examinations during labour and delivery. *The Japanese Journal for Midwives*, 72(12), 948-949. (2018).
- 4) **Sugimoto, K.** Vaginal cleansing during labour and delivery. *The Japanese Journal for Midwives*, 72(12), 950-951. (2018).
- 5) Bohren, M.A., Hofmeyr, G.J., Sakala, C., **Fukuzawa, R.K.**, and Cuthbert, A. Continuous support for women during childbirth. *Cochrane Database of Systematic Reviews*, Issue 7. Art. No.: CD003766. DOI: 10.1002/14651858.CD003766.pub6. (2017).
- 6) **Fukuzawa, R.K.** & Kondo, K.T. A holistic view from birth to the end of life: end-of-life doulas and new developments in end-of-life care in the West. *International Journal of Palliative Nursing*, 23, 12, 612-619. (2017).
- 7) **Togoobaatar Ganchimeg**, Chie Nagata, Joshua P. Vogel, et al. Optimal timing of delivery among low-risk women with prior caesarean section: a secondary analysis of the WHO multi-country survey on maternal and newborn health. *PLoS One* 11(2): e0149091, (2016).
- 8) **Fukuzawa, R.K.** and Kodate, N. Chapter 8: Japan. In *Maternity Services and Policy in an International Context: Risk, Citizenship and Welfare Regimes*. (Eds.) Kennedy, P. and Kodate, N. Routledge. UK. pp. 153-178. (2015).
- 9) **T Ganchimeg**, R Mori, E Ota, et al. Maternal and perinatal outcomes among nulliparous adolescents in low- and middle-income countries: a multi-country study. *BJOG*. 120(13): 1622-30; (2014).
- 10) **T Ganchimeg**, E Ota, N Morisaki, et al. Pregnancy and childbirth outcomes among adolescent mothers: a World Health Organization multicountry study. *Bjog-Int J Obstet Gy*. Vol. 121, 40-48, (2014).

- 11) **T Ganchimeg**, N Morisaki, JP Vogel, et al. Mode and timing of twin delivery and perinatal outcomes in low- and middle- income countries: a secondary analysis of the WHO Multicountry Survey on Maternal and Newborn Health. *Bjog-Int J Obstet Gy.* Vol. 121, 89-100, (2014).
- 12) **Sugimoto, K.** Social support, posttraumatic stress, and postpartum depressive symptomatology among Japanese women. Doctoral dissertation in nursing science, University of Illinois at Chicago. (2013).
- 13) **Katsumata, A.T.** The reverence for life movement - A community-based primary health care movement in Kumamoto, Japan. Doctoral dissertation in nursing science, University of Illinois at Chicago. (2011).

Rehabilitation Nursing, Chronic illness care

Principal Investigator Kikue Hidaka

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URL Preparation in progress



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Major Scientific Interests of the Group

- 1) Rehabilitation Nursing
- 2) Chronic Illness Care
- 3) Nursing Skill
- 4) Nursing Education
- 5) Occupational Health Nursing

Projects for Regular Students in Doctoral or Master's Programs

- 1) Oral self-management behaviors in patients with type 2 diabetes
- 2) Fatigue in patients with multiple sclerosis

Study Programs for Short Stay Students (one week – one trimester)

Preparation in progress

Selected Publications

- 1) Shibayama T, Tanha S, Abe Y, Haginoya H, and Rajab A, Hidaka K. The role of illness schemata in self-care behaviors and glycemic control among patients with type 2 diabetes in Iran. Prim Care Diabetes. 2019. [Epub ahead of print]
- 2) Kuramoto N, Suzuki K, Watanabe S, and Hidaka K. Mealtime assistance and caregivers' frequency of checking the residents in nursing homes: a questionnaire survey. Jpn J Compr Rehabil Sci, 9: 34-42, 2018.
- 3) Nakamura K, Abe Y, Shibayama T, and Hidaka K. Required support • An examination of the subjective quality of life and related factors in elderly people with a high functional capacity who need mild care. Nihon Ronen Igakkai Zasshi, 55(2): 276-283, 2018.
- 4) Shibayama T, Noguchi H, Takahashi H and Tamiya N. Relationship between social engagement and diabetes incidence in a middle-aged population: Results from a longitudinal nationwide survey in Japan. Journal of Diabetes Investigation, 9(5): 1060-1066, 2018.
- 5) Kuramoto N, Suzuki K, Watanabe S, and Hidaka K. Mealtime assistance and caregivers' frequency of checking the residents in nursing homes: a questionnaire survey. Japanese Journal of Comprehensive Rehabilitation Science: 34-42, 2018.
- 6) Kuramoto N, Dushyantha J, Hidaka K, Suzuki K. Smartphone-based swallowing monitoring and feedback device for mealtime assistance in nursing homes. 2016 38th Annual International Conference of the IEEE Engineering in Medicine and Biology Society. 2016.
- 7) Takai Y, Yamamoto-Mitani N, Abe Y, and Saito S. Difference between Nurses' and Care Workers' Estimations of Pain Prevalence among Older Residents. Pain Manag Nurs. 16(1): 20-32, 2015.

- 8) Haginoya H, Saeki Y. The Usefulness of Salivary α -Amylase Activity to Evaluate Degree of Stress. Japanese Society of Nursing Art and Science. 10(3): 19-28.2013.
- 9) Haginoya H, Saeki Y. Evaluation of Stress in Patients Undergoing Cardiac Catheterization Using a Femoral Artery or Vein. Japanese Society of Nursing Art and Science, 12(2): 14-22. 2013.
- 10) Saeki Y, Miki A, Haginoya H, Kuroda, Y Kawaguchi, T Hoshino, and Hayashi K. Relationship between expression of laughter and relieving stress in nurses. International Journal of Behavioral Medicine, 19, S72, 2012.
- 11) Shibayama, T., Sato, E., Nishigaki, M., Ochiai, R., and Kazuma, K. Influence of dietary therapy appraisal on future perceived control of type 2 diabetes. *Journal of Health Psychology*, 16(8): 1141-1150, 2011.
- 12) Abe Y, Miyashita M, Ito N, Shirai Y, Momose Y, Tsuji S, Kazuma K. Attitude of outpatients with neuromuscular diseases in Japan to pain and use of analgesics. *J Neurol Sci*, 267(1-2), 22-7, 2008.
- 13) Shibayama, T., Kobayashi, K., Takano, A., Kadowaki, T., & Kazuma, K. (2007). Effectiveness of lifestyle counseling by certified expert nurse of Japan for non-insulin-treated diabetic outpatients: A 1-year randomized controlled trial. *Diabetes Research and Clinical Practice*, 76(2): 265-268, 2007.
- 14) Hidaka K, Kamiya K, and Masuda M. Nourishment of patients with persistent disturbance of consciousness and nutritional markers to simplify evaluation. *Nihon Ronen Igakkai Zasshi*. 43(3): 361-7, 2006.

Gerontological Nursing& Caring

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Major Scientific Interests of the Group

Having been faced super aging society, we are striving useful research and educational activities for elderly people and their families, and all aging population who are in need of caring. I am interested in the following theme and our group are good at mixed method with qualitative research method such as Grounded Theory Approach.

- Health promotion of family caregivers of frail elderly parent
- Supporting middle-aged couples (foreign bride and Japanese spouse) who take care of aging family members
- Gender issues on family caregiving,
- Family caregiving in Mongolia

Projects for Regular Students in Doctoral or Master's Programs

Characteristics of elderly who have hypertension and depression in China.

The relationship between alcohol drinking habit and quality of sleep in community-dwelling elderly.

The relationship between smoking, depression and sleep quality in the elderly.

Study Programs for Short Stay Students (one week – one trimester)

Site visit on Japanese long-term-care: Toyomagata-day service

Selected Publications

- 1) Yumi Hashizume, The coping with the oppressed feelings program: a pilot feasibility study for employed female caregivers of aging parents. *Journal of Nursing and Practice*, 2 (2), 62-72, 2018
- 2) Yumi Hashizume, Releasing from the oppression: caregiving for the elderly parents of Japanese working women. *Qualitative Health Research*, 20 (6), 830-844, 2010
- 3) Noriko Okamoto, Hitomi Matsuda, Xiaochen Wang, Naoki Maki, von Fingerhut Georg, Takumi Abe, Akihiro Araki, Toshifumi Takao, The relationship between social network and sleep quality, *Sleep Biological Rhythms*, 16,506,2018
- 4) Noriko Okamoto, Hitomi Mastuda, Awareness and Related Factor of Hand hygiene among Nurses Working in Elderly-Care Facilities, *Journal of Gerontological Nursing and Caring Research*, 4,2,1-10,2014

Livelihood Support Science

Principal Investigator TOKUDA Katsumi

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Major Scientific Interests of the Group

1. Child Care
2. Barrier-free
3. Disable Sociology
4. Understanding Special Needs
5. Child Care for children with developmental disorders

Projects for Regular Students in Doctoral or Master's Programs

- 1) Development of a training program to raise children with developmental disorders
- 2) Study regarding children with developmental disabilities in Indonesia
- 3) Support for parents who have children with food allergies

Study Programs for Short Stay Students (one week – one trimester)

- 1) Consultation on children with developmental disorders

Selected Publications

- 1) TOKUDA K., MIZUNO T. Problems of Tactile Walking Surface Indicators Installed on the Platform of Railway Stations in the World. *The Asian Journal of Disable Sociology*, 2017, 16, 11-23.
- 2) MIZUNO T., TOKUDA K., CHO H. The Current Situation of "Using a Smartphone while Doing Something Else" and Related Factors. *Journal of Digital Convergence*, 2016, 14(12), 561-569.
- 3) MIZUNO T. Characteristics of Children Evaluated by Parents with Infants: From a comparison with survey results of about 15 years ago. *The Asian Journal of Child Care*, 2016, 7 29-36.
- 4) MIZUNO T., NISHIMURA M., TOKUDA K. Current Situation of Using Their Smartphones While Walking in the Major Stations and its Surrounding Area in Tokyo and Osaka: Focused on the result of on-site calibration research. *The Asian Journal of Disable Sociology*, 2016, 15, 1-10.
- 5) MIZUNO T., TOKUDA K. Effectiveness of Awareness Education to prevent Texting While Walking: By comparing informative, threatening, and discussion. *International Journal of Applied Engineering Research*, 2016, 10, 90, 25-27.
- 6) TOKUDA K., MIZUNO T. and EDANO H. Characteristics of Kindergartens or Daycare Centers that are Inappropriate in Childcare for Children with Developmental Disabilities. *The Asian Journal of Child Care*, 2015, 6, 59-66.

Midwifery and Women's Health Nursing

Principal Investigator Atsuko Kawano, PhD.

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Other Faculty Members

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Major Scientific Interests of the Group

- 1) Maternal and Infant Health Care
- 2) Women's Health and Stress
- 3) Development of Health Education System for Adolescents
- 4) Maternal Child Care Policy and Survey on Child-Care Environment
- 5) Prenatal Nursing

Projects for Regular Students in Doctoral or Master's Programs

- 1) Women's Stress in Maternal Period and after Birth
- 2) Postpartum depression is relationship to neurotransmitter
- 3) Maternal health management
- 4) Mother role Acquisition

Study Programs for Short Stay Students (one week – one trimester)

- 1) Critique and discussion on midwifery and women's health nursing papers and research

Selected Publications

- 1) Kawano A. The Influence of Sleep Status on Urinary Adrenaline, Noradrenaline, and Cortisol Levels in Women. *Journal of Women's Health Care.*7(2), 2018
- 2) Kawano A., Emori Y. The relationship between maternal postpartum psychological state and breast milk secretory IgA levels. *Journal of the American Psychiatric Nurses Association.*21(1), p23-30, 2015
- 3) Kawano A., Emori Y. Changes in maternal secretory immunoglobulin A (SIgA) levels in human milk during 12 weeks after parturition. *American Journal of Human Biology.*25(3), p399-403, 2013
- 4) Kawano A., Emori Y. Association Between Stress-Related Substances in Saliva and Immune Substances in Breast Milk in Puerperae. *Biological Research for Nursing.* 10(4), 350-355, 2009
- 5) Kawano A., Emori Y. The relationship between postpartum mother's psychological state by POMS (Profile of Mood States) and saliva SIgA and cortisol concentrations. *Journal of Academy Midwifery.* 22(1),17-24,2008

Child Health Care and Nursing / Child Health and Development Nursing

Principal Investigator Rie Wakimizu, PhD.

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Other Faculty Members

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Major Scientific Interests of the Group

- 1) Pediatric nursing
- 2) Child health nursing
- 3) Family nursing
- 4) Nursing of children with cancer
- 5) Nursing of children with chronic illness
- 6) Family empowerment raising child development disorders and children with severe motor and intellectual disabilities (SIMD)

Projects for Regular Students in Doctoral or Master's Programs

- 1) Investigation of current situation concerning family that raising SMID
- 2) Nursing practice in neonatal intensive care unit (End-of-life care / Discharge support)
- 3) Health care transition of children with chronic illness
- 4) Medical social aspect of family raising child with congenital metabolic disorder
- 5) Family empowerment raising children with disabilities

Study Programs for Short Stay Students (one week – one trimester)

Respond to consultation.

e.g. Practice (5days) and discussion (1day) on Child health nursing and Family nursing.

Selected Publications

- 1) Wakimizu R. Fujioka H. Nishigaki K. Matsuzawa A. Quality of Life and associated factors in siblings of children with severe motor and intellectual disabilities: A cross-sectional study: Nursing and Health Sciences/in press, 2020.
- 2) Wakimizu R. Miki A. Saito M. Oto T, et al. Current state and management of verbal abuse, violence, sexual harassment and other harassment by patients and families in pediatric medical settings: The journal of ambulatory and general pediatrics /22(4)/pp.452-461, 2019.
- 3) Wakimizu R. Fujioka H. Nishigaki K. Matsuzawa A. Family empowerment and associated factors in Japanese families raising a child with severe motor and intellectual disabilities: International Journal of Nursing Sciences/5(4)/pp.370-376, 2018.
- 4) Wakimizu R. Fujioka H. Nishigaki K. Matsuzawa A. Construction of empirical model focused on the family empowerment nurturing the child with severe motor and intellectual disabilities at home in Japan: The journal of child health /77(5)/pp.423-432, 2018.
- 5) Wakimizu R. Yamaguchi K. Fujioka H. Family empowerment and quality of life of parents raising children with Developmental Disabilities in 78 Japanese families: International Journal of Nursing

Sciences/ 4 (1)/pp.38-45, 2017.

- 6) Wakimizu R. Yamaguchi K. Fujioka H. Roles and hopes of family members living with SMID children in Japan: Health/8/pp.787-799, 2016.
- 7) Wakimizu R. Quantitative and qualitative consideration on the effects of parenting program on children with a developmental disability, parents, families who have regular visit to hospital: Japanese journal of research in family nursing /21(2)/pp.158-170, 2016.
- 8) Wakimizu R. Yamaguchi K. Fujioka H. Assessment of quality of life, family function and family empowerment for families who provide home care for a child with severe motor and intellectual disabilities in Japan: Health/8(4)/pp.304-317, 2016.
- 9) Wakimizu R. Fujioka H. Analysis of issues and needs of parents when raising a child with developmental disabilities in Japan: Using focus group interviews: The Journal of Nursing Research/24(1)/pp.68-78, 2016.
- 10) Wakimizu R. Fujioka H. Strengthening positive parenting through two-month intervention of a local city in Japan: evaluating parental efficacy, family adjustment, and family empowerment: European Journal for Person Centered Healthcare/3(4)/pp.503-512, 2015.
- 11) Ozawa N. Furuya K. Ishikawa Y. Mother's experience whose child undergoing proton beam therapy by the changing hospital: Journal of Japanese Society of Pediatric Oncology Nursing/11(1)/pp.7-16, 2016.

Health Services Research

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Major Scientific Interests of the Group

We assess and analyze the quality of various medical services (including nursing, health and welfare care) using the health services research method. Our goal is to improve the quality of services via outcome research through an interdisciplinary research approach. We use verified data to help realize the idea of medical care in harmony with life.

Projects for Regular Students in Doctoral or Master's Programs

- 1) Useful regional indicators for the planning of long-term care projects (assistance): using claim data from the national long-term care system and others.
- 2) Verification of the method of linking medical care information and construction of logic and regional difference analysis of medical care
- 3) Study on factor analysis of healthy life expectancy and regional disparity and validation of health promotion measures

Study Programs for Short Stay Students (one week – one trimester)

Part of the aforementioned projects 1) ~ 3)

Selected Publications

- 1) [Tamiya N](#), Noguchi H, Nishi A, Reich MR, Ikegami N, Hashimoto H, Shibuya K, Kawachi I, Campbell JC. Population ageing and wellbeing: lessons from Japan's long-term care insurance policy. *Lancet*. 2011; 378(9797):1183-92.
- 2) Mori T, Hamada S, Yoshie S, Jeon B, Jin X, Takahashi H, Iijima K, Ishizaki T, [Tamiya N](#). The Associations of Multimorbidity with the Sum of Annual Medical and Long-Term Care Expenditures in Japan. *BMC Geriatr*. (in press)
- 3) Kuroda N, Hamada S, Sakata N, Jeon B, Iijima K, Yoshie S, Ishizaki T, Jin X, Watanabe T, [Tamiya N](#). Antipsychotic use and related factors among people with dementia aged 75 years or older in Japan: a comprehensive population-based estimation using medical and long-term care data. *Int J Geriatr Psychiatry*. (in press)
- 4) Hamada S, Takahashi H, Sakata N, Jeon B, Mori T, Iijima K, Yoshie S, Ishizaki T, [Tamiya N](#). Household income relationship with health services utilization and healthcare expenditures in people aged 75 years or older in Japan: A population-based study using medical and long-term care insurance claims data. *J Epidemiol*. (in press)
- 5) Moriyama Y, [Tamiya N](#), Kawamura A, Mayers TD, Noguchi H, Takahashi H. Effect of short-stay service use on stay-at-home duration for elderly with certified care needs: Analysis of long-term care insurance claims data in Japan. *PLoS One*. 2018;13(8):e0203112.
- 6) Jeon B, [Tamiya N](#), Yoshie S, Iijima K, Ishizaki T. Potentially avoidable hospitalizations, non-potentially avoidable

hospitalizations and in-hospital deaths among residents of long-term care facilities. *Geriatr Gerontol Int.* 2018;18(8):1272-1279.

- 7) Yamaoka Y, Morisaki N, Noguchi H, Takahashi H, Tamiya N. Comprehensive Assessment of Risk Factors of Cause-Specific Infant Deaths in Japan. *J Epidemiol.* 2018;28(6):307-314.
- 8) Jin X, Tamiya N, Jeon B, Kawamura A, Takahashi H, Noguchi H. Resident and facility characteristics associated with care-need level deterioration in long-term care welfare facilities in Japan. *Geriatr Gerontol Int.* 2018;18(5):758-766.
- 9) Mori T, Tamiya N, Jin X, Jeon B, Yoshie S, Iijima K, Ishizaki T. Estimated expenditures for hip fractures using merged healthcare insurance data for individuals aged ≥ 75 years and long-term care insurance claims data in Japan. *Arch Osteoporos.* 2018;13(1):37.
- 10) Sugiyama T, Tamiya N, Watanabe T, Wakui T, Shibayama T, Moriyama Y, Yamaoka Y, Noguchi H. Association of care recipients' care-need level with family caregiver participation in health check-ups in Japan. *Geriatr Gerontol Int.* 2018;18(1):26-32.

Clinical Trial and Clinical Epidemiology

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Major Scientific Interests of the Group

Clinical trial and clinical epidemiology have been evolved in modern medicine. That helps to understand the conceptual gaps between structured experience of basic science and the more complex, open-ended problems arising for the care of patients. Based on the principals of clinical trials and the use of clinical epidemiology, we tried to provide the evidence towards improving the care of the patients.

Projects for Regular Students in Doctoral or Master's Programs

- 1) The members of our research group take challenges on the development and application of epidemiologic techniques and provide relevant evidences for diagnosis, treatment and prevention.
- 2) Biostatistics is applied statistics for medical and biological research, and aims to develop, apply, advice on statistical methodology for study design and data analysis in the research.

Study Programs for Short Stay Students (one week – one trimester)

- 1) The Department provides the environment to learn the principles of clinical epidemiology through practical implementation of researches.
- 2) The Department also provides an environment to pursue research and education in biostatistics. The research in the department is categorized by methodology and practice.

Selected Publications

- 1) Ferdous F, Ma E, Raqib R, Wagatsuma Y. Birth weight influences the kidney size and function of Bangladeshi children. *J Dev Orig Health Dis*. 2017 Dec 17:1-9.
 - 2) Tafida MA, Wagatsuma Y, Ma E, Mizutani T, Abe T. Descriptive epidemiology of traumatic spinal injury in Japan. *J Orthop Sci*. 2018 Mar;23(2):273-276.
 - 3) Rashid H, Ma E, Ferdous F, Ekström EC, Wagatsuma Y. First-trimester fetal growth restriction and the occurrence of miscarriage in rural Bangladesh: A prospective cohort study. *PLoS One*. 2017 Jul 21;12(7):e0181967.
 - 4) Raqib R, Ahmed S, Ahsan KB, Kippler M, Akhtar E, Roy AK, Lu Y, Arifeen SE, Wagatsuma Y, Vahter M. Humoral Immunity in Arsenic-Exposed Children in Rural Bangladesh: Total Immunoglobulins and Vaccine-Specific Antibodies. *Environ Health Perspect*. 2017 Jun 14;125(6):067006.
 - 5) Saito N, Sugiyama K, Ohnuma T, Kanemura T, Nasu M, Yoshidomi Y, Tsujimoto Y, Adachi H, Koami H, Tochiki A, Hori K, Wagatsuma Y, Matsumoto H. Efficacy of polymyxin B-immobilized fiber hemoperfusion for patients with septic shock caused by Gram-negative bacillus infection. *PLoS One*. 2017 Mar 30;12(3):e0173633.
 - 6) Yamaguchi Y, Misumi T, Maruo K. A comparison of multiple imputation methods for incomplete longitudinal binary data. *Journal of Biopharmaceutical Statistics*. 2017 DOI: 10.1080/10543406.2017.1372772
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- 7) Goshi M, Maruo K, Tada K, Hirakawa A. Utilization of chi-square statistics for screening adverse drug-drug interactions in spontaneous reporting systems. *European Journal of Clinical Pharmacology*. 2017; 73: 779-786.
 - 8) Maruo K, Yamaguchi Y, Noma H, Goshi M. Interpretable inference on the mixed effect model with the Box-Cox transformation. *Statistics in Medicine* 2017; 36: 2420-2434.
 - 9) Shimura M, Goshi M, Hirakawa A. Comparison of conditional bias-adjusted estimators for interim analysis in clinical trials with survival data. *Statistics in Medicine* 2017; 36: 2067-2080.
 - 10) Sato Y, Goshi M, Nagashima K, Takahashi S, Ware JM, Laird NM. Statistical Methods in the Journal — an update. *New England Journal of Medicine* 2017; 376: 1086-1087.
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Legal Medicine

Principal Investigator Katsuya Honda

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Other Faculty Members

Associate Professor Yukiko Sugano

Major Scientific Interests of the Group

- 1) Development of innovative DNA profiling
- 2) Pathology of the cardiac sudden death
- 3) Development of a hypersensitive toxicological test
- 4) Study of the social aspect of the medical history

Projects for Regular Students in Doctoral or Master's Programs

Mitochondrial polymorphisms associated with fetal diseases in Japanese
Forensic DNA analysis using next generation sequencing

Study Programs for Short Stay Students (one week – one trimester)

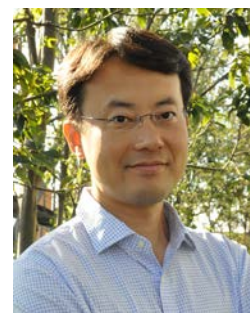
Forensic DNA typing, LC/MS/MS and GC analysis, ICP-AES analysis, Microscopic Analysis

Selected Publications

- 1) **K Honda**. DNA analysis overturns the death sentence of a condemned criminal held in custody for 48 years. **Forensic Sci Inc Genet**. 2015;16: e5-e6.
- 2) **K Honda**, Muramatsu H, Hashimoto R, Iwabuchi Y, Tatsuzawa C, Yano S, **Sugano Y**. The mitochondrial DNA polymorphisms in chromosomal aberration detected by next generation sequence. **Forensic Sci Inc Genet SS**. 2015;5: e375-e377.
- 3) Yano S, **Honda K**, Kaminiwa J, Nishi T, **Sugano Y**. DNA extraction for short tandem repeat typing from mixed samples using anti-human leukocyte CD45 and ABO blood group antibodies. **Forensic Sci Inc Genet**. 2014;10:17-22.
- 4) Nishi T, Kurosu A, **Sugano Y**, Kaminiwa J, Sekine Y, Yano S, **Honda K**. Application of a novel multiplex polymerase chain reaction system for 12 X-chromosomal short tandem repeats to a Japanese population study. **Legal Med**. 2013;15: 43-46.
- 5) **Honda K**. The Ashikaga case of Japan-Y-STR testing used as the exculpatory evidence to free a convicted felon after 17.5 years in prison. **Forensic Sci Inc Genet**. 2012;6: e1-e2.
- 6) **Sugano Y**, **Honda K**. The Succession of the Hippocratic Corpus in Modern Greece. **J Japan Society of Med History**. 2010;56: 67- 76.

Global Public Health

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Major Scientific Interests of the Group

“The existing gross inequality in the health status of the people, particularly between developed and developing countries as well as within countries, is politically, socially, and economically unacceptable and is, therefore, of common concern to all countries.” (The Declaration of Alma-Ata, September 1978) With this statement in mind, we are conducting action- and problem-oriented researches in the various fields of public health using epidemiological and statistical methods. Making change happen is difficult but we believe it is possible through scientifically sound researches.

Projects for Regular Students in Doctoral or Master’s Programs

Intervention and observation studies in various fields of epidemiology including injury, nutrition, mental health, and emergency medicine

Study Programs for Short Stay Students (one week – one trimester)

Not available

Selected Publications

- 1) Ichikawa M, Inada H, Nakahara S. Effect of a cognitive test at license renewal for older drivers on their crash risk in Japan. *Inj Prev*. 2019 Mar 30. pii: injuryprev-2018-043117.
- 2) Ichikawa M, Nakahara S, Inada H. Impact of mandating a driving lesson for older drivers at license renewal in Japan. *Accid Anal Prev*. 2015 Feb;75:55-60.
- 3) Ichikawa M, Nakahara S, Taniguchi A. Older drivers' risks of at-fault motor vehicle collisions. *Accid Anal Prev*. 2015 Aug;81:120-3.
- 4) Ichikawa M, Gerelmaa G, Nakahara S. Call for more translational research in burn injury prevention. *Burns*. 2019 Feb;45(1):255-256.
- 5) Gerelmaa G, Tumen-Ulzii B, Nakahara S, Ichikawa M. Patterns of burns and scalds in Mongolian children: a hospital-based prospective study. *Trop Med Int Health*. 2018 Mar;23(3):334-340.
- 6) Hori A, Wada K, Smith DR. A Socio-Demographic Examination of Adults Responding to Governmental Vaccination Recommendations during the Japanese Rubella Outbreak of 2013. *PLoS One*. 2015 Jun 9;10(6):e0129900.
- 7) Hori A, Kasai H, Kawai K, Nanri A, Sato M, Ohta M, Mizoue T. Coffee intake is associated with lower levels of oxidative DNA damage and decreasing body iron storage in healthy women. *Nutr Cancer*. 2014;66(6):964-9.

Health Care Policy and Health Economics

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Other faculty members

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Major Scientific Interests of the Group

The application of economics and other social sciences for health care policy & health policy in order to improve the health of populations around the world.

Projects for Regular Students in Doctoral or Master's Programs

- 1) Health care financing in Nepal in the era of Universal Health Coverage
- 2) Characteristics of hospital care in Japan
- 3) Economic evaluation of immunisation programmes in Japan

Study Programs for Short Stay Students (one week – one trimester)

- 1) An application of economics for health care policy. A topic is to be decided on demand basis by negotiation.

Selected Publications

- 1) Hoshi SL, Seposo X, Okubo I, Kondo M. Cost-effectiveness analysis of pertussis vaccination during pregnancy in Japan. *Vaccine*. 36(34):5133-5140, 2018.
- 2) Shono A, Kondo M, Hoshi SL, Okubo R, Yahagi N. Cost-effectiveness of a New Opportunistic Screening Strategy for Walk-in Fingertip HbA1c Testing at Community Pharmacies in Japan. *Diabetes Care*. 41(6):1218-1226, 2018.
- 3) Ghimire M, Ayer R, Kondo M. Cumulative incidence, distribution, and determinants of catastrophic health expenditure in Nepal: results from the living standards survey. *Int J Equity Health*. 17(1):23, 2018.
- 4) Shono A, Kondo M. Mothers' preferences regarding new combination vaccines for their children in Japan, 2014. *Hum Vaccin Immunother*. 13(4):766-771, 2017.
- 5) Okubo R, Kondo M, Hoshi SL, Yamagata K. Cost-effectiveness of obstructive sleep apnea screening for patients with diabetes or chronic kidney disease. *Sleep Breath*. 19(3):1081-92, 2015.
- 6) Shono A, Kondo M, Ohmae H, Okubo I. Willingness to pay for public health services in rural Central Java, Indonesia: methodological considerations when using the contingent valuation method. *Soc Sci Med*. 110:31-40, 2014.
- 7) Kondo M, Yamagata K, Hoshi SL, Saito C, Asahi K, Moriyama T, Tsuruya K, Konta T, Fujimoto S, Narita I, Kimura K, Iseki K, Watanabe T. Budget impact analysis of chronic kidney disease mass screening test in Japan. *Clin Exp Nephrol*. 18(6):885-91, 2014.
- 8) Kato N, Kondo M, Okubo I, Hasegawa T. Length of hospital stay in Japan 1971-2008: hospital ownership and cost-containment policies. *Health Policy*. 115(2-3):180-8, 2014.