

Research Center for Medical Sciences Division of Molecular Epidemiology

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General Summary

Despite having the same disease diagnosis, some patients may be cured but some may not. This difference cannot be understood with experimental medicine. On the other hand, clinical practice might also not provide the answer. We combined molecular biology and epidemiology to create the Division of Molecular Epidemiology, to clarify the etiology of disease and to predict factors affecting survival.

Research Activities

The Jikei clinical research course

We held 20 seminars' about strategies for clinical studies for healthcare practitioners at The Jikei University. In 2015, small-group study courses targeting postgraduate students will be started from the principles of epidemiology and biostatistics by reading textbooks and by analyzing real clinical data with STATA software (StataCorp LP, College Station, TX, USA) and designing clinical studies. Our goal is for postgraduate students to develop the skills to construct hypotheses, design protocols, monitor trials, and analyze data.

Original studies

1. Randomized trial of vitamin D supplement
2. Elective class of Global Health
3. Randomized trial to prevent food allergy

Publications

Niwa S, Mezawa H, Kobayashi N, Ida H, Urashima M. Inverse association between maternal 25OHD level and cord GLP-1/GIP concentrations. *Pediatr Res.* 2016 Apr; **79**: 536-42.

Martineau AR¹, Cates CJ², Urashima M, Jensen M³, Griffiths AP¹, Nurmatov U¹, Sheikh A⁵, Griffiths CJ¹ (¹Queen Mary Univ, ²Univ London, ³Univ Newcastle, ⁴Cardiff Univ, ⁵Univ Edinburgh). Vitamin D for the management of asthma. *Cochrane Database Syst Rev.* 2016 Sep 5; **9**: CD011511.

Ishikawa Y, Tanaka H, Akutsu T, Koide K, Sakuma M, Okazaki M, Ida H, Urashima M. Prenatal vitamin A supplementation associated with adverse child behavior at 3 years in a prospective birth cohort in Japan. *Pediatr Int.* 2016 Sep; **58**: 855-61.

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A, Yamamoto I, Yokoyama K, Yokoo T, Urashima M. Associations among serum trimethylamine-N-oxide (TMAO) levels, kidney function and infarcted coronary artery number in patients undergoing cardiovascular surgery: a cross-sectional study. *Clin Exp Nephrol.* 2016 Oct; **20**: 731-9.

Shimura E, Hama T, Suda T, Ikegami M, Urashima M, Kojima H. The Presence of HPV DNA in Neck Lymph Node Metastasis Correlates with Improved Overall Survival of Patients with Oropharyngeal Cancer Undergoing Surgical Treatment. *Oncology.* 2017; **92**: 87-93. Epub 2016 Dec 1.

Martineau AR¹, Jolliffe DA¹, Hooper RL¹, Greenberg L¹, Aloia JF², Bergman P³, Dubnov-Raz G⁴, Esposito S⁵, Ganmaa D⁶, Ginde AA⁷, Goodall EC⁸, Grant CC⁹, Griffiths CJ¹,

Janssens W¹⁰, Laaksi I¹¹, Manaseki-Holland S¹², Mauger D¹³, Murdoch DR¹⁴, Neale R¹⁵, Rees JR¹⁶, Simpson S Jr¹⁷, Stelmach I¹⁸, Kumar GT¹⁹, Urashima M, Camargo CA Jr²⁰ (Queen Mary Univ, ²Winthrop Univ Hosp, ³Karolinska Institutet, ⁴Edmond and Lily Safra Children's Hosp, ⁵Univ Milan, ⁶Harvard Sch Public Health, ⁷Univ Colorado Sch Med, ⁸McMaster Univ, ⁹Univ Auckland, ¹⁰Universitair ziekenhuis Leuven, ¹¹Univ Tampere, ¹²Unive

Birmingham, ¹³The Pennsylvania State Univ, ¹⁴Univ Otago, ¹⁵QIMR Berghofer Medical Research Institute, ¹⁶Geisel Sch Medicine at Dartmouth, ¹⁷Univ Tasmania, ¹⁸Med Univ Lodz, ¹⁹Univ Delhi, ²⁰Massachusetts General Hosp).
 Vitamin D supplementation to prevent acute respiratory tract infections: systematic review and meta-analysis of individual participant data. *BMJ*. 2017 Feb 15; **356**: i6583.