

**REGISTER BASED RESEARCH (046041J, 1-2 ECTS)**

- Time:** 30 November 2017
- Place:** Lecture Room 105A, University of Oulu, Aapistie 5A
- Course leaders:** Prof. Jouko Miettunen and prof. Maria Kääriäinen, University of Oulu
- Teachers:** prof. Mika Gissler, National Institute for Health and Welfare, Finland  
prof. Reijo Sund, University of Helsinki
- Target group:** PhD students
- Learning outcomes:** Upon completion of the course, the PhD student is able: 1) to identify the principles of the utilization of register data in research and 2) to discuss legal, ethical and methodological issues related to the register based research.
- Credits:** 2 ECTS (preliminary reading, lectures and protocol as an independent work) or 1 ECTS (preliminary reading, lectures and self-evaluation)
- Learning methods:** Preliminary reading of learning materials 8h, intensive lecturing involves cross-disciplinary experts 8h, preparation of a research protocol for register based research as an independent work 36h, self-evaluation 2h
- Literature:** Preliminary learning materials before the lectures:
- Johnson M. 2015. Käyttöluvalliset aineistot tutkimuskäytössä. <https://www.youtube.com/watch?v=vP54yz-fEBs>
  - Johnson M. 2015. Mistä saa tukea käyttöluvallisten aineistojen tutkimuskäyttöön? <https://www.youtube.com/watch?v=zEMyvZM5P58>
  - Mäkinen M. 2015. Tilastokeskuksen aineistot. [https://www.youtube.com/watch?v=o5Y\\_7YUvrdQ](https://www.youtube.com/watch?v=o5Y_7YUvrdQ)
  - Räisänen et al. 2013. Rekisteritietojen hyödyntämisen haasteet ja mahdollisuudet. Suomen lääkärilehti 47 (68), 3075-3082. [https://www.researchgate.net/publication/258763973\\_Rekisteritietojen\\_hyodyntamisen\\_haasteet\\_ja\\_mahdollisuudet](https://www.researchgate.net/publication/258763973_Rekisteritietojen_hyodyntamisen_haasteet_ja_mahdollisuudet)
  - Ludvigsson et al. 2015. Ethical aspects of registry-based research in the Nordic countries. Clin Epidemiol 23 (7), 491-508.
  - Miettunen J et al. 2011. Use of Register Data for Psychiatric Epidemiology in the Nordic Countries. In: Tsuang M et al. (eds.) Textbook in Psychiatric Epidemiology, 3rd ed., Wiley-Blackwell, 117-131.
  - Olsen et al. 2010. High-throughput epidemiology: combining existing data from the Nordic countries in health-related collaborative research. Scand J Public Health 38 (7), 777-779.
  - Salokannel M 2017. Ethical review, data protection and biomedical research in the Nordic countries: A legal perspective. POLICY PAPER 1/2017. NordForsk. [https://www.nordforsk.org/en/publications/publications\\_container/ethical-review-data-protection-and-biomedical-research-in-the-nordic-countries-2013-a-legal-perspective](https://www.nordforsk.org/en/publications/publications_container/ethical-review-data-protection-and-biomedical-research-in-the-nordic-countries-2013-a-legal-perspective)
- Language:** English
- Registration:** by 17th November 2017 via e-mail to maria.kaariainen (at) oulu.fi



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### CONTENT AND PROGRAM

Place: Lecture Room 105A, Aapistie 5A

**30<sup>th</sup> November 2017**

10.00-10.15	Introduction to the course, prof. Jouko Miettunen and Maria Kääriäinen
10.15 - 12.15	Registers as data in Finland, prof. Mika Gissler  Planning the register-based research (process, ethical and legal issues), prof. Mika Gissler
12.15 - 13.15	Lunch break
13.15 - 14.30	Methodological challenges in register-based data-analysis (with practical examples), prof. Reijo Sund
14.30 - 14.45	Coffee
14.45 - 16.45	Combining register data with various observational study designs (with practical examples), prof. Reijo Sund
16.45 – 17.00	Closing, prof. Maria Kääriäinen

**Independent work (includes for 2 ECTS):** Plan a registered-based protocol and send it to maria.kaariainen (at) oulu.fi by 10<sup>th</sup> January 2018. More information of protocol will be given in the contact teaching sessions.

**Assessment:** Pass/Fail.

2 ECTS (preliminary reading, active participation (minimum 80%) in lectures, protocol as an independent work and self-evaluation based on evaluation form) OR

1 ECTS (preliminary reading, active participation (minimum 80%) in lectures and self-evaluation based on evaluation form.