



Department of Sociology

Systematic Reviews

7.5 credits, Fall 2018 Syllabus

Last Updated: October 5, 2018

Instructor

Andrea Voyer (andrea.voyer@sociology.su.se)

Aims

It is becoming more common that public policy interventions should be based on best available evidence. The purpose of a systematic review is to sum up the best available research evidence on a specific question. This is done by synthesizing the results of several studies. Participants will explore the range of existing approaches to, and methods for, research synthesis. The course will provide hands-on experience of commonly used methods (including the procedures proposed by the Campbell/Cochrane Collaborations). The course uses material from a range of policy areas and will explore different kinds of review questions. Participants will be introduced to different methods for synthesizing both a range of study designs and qualitative and quantitative data, although there is an emphasis on synthesizing quantitative data (meta-analysis). To help participants consider the role played by systematic reviews in policy and practice decisions, this course also includes discussion of the opportunities and challenges that systematic reviews pose.

Entry requirements

Bachelor's degree with a major in social sciences and English B or corresponding.

Organization

The course is offered full-time over five weeks. Course participants and instructors meet approximately twice a week for lectures, group discussions, computer-based exercises and/or seminars. The lectures/seminars cover topics not necessarily addressed in the required readings. Lectures should therefore be viewed as a complement to the mandatory literature. In order to enhance the learning outcomes, students need to be up to date on previously acquired skills in descriptive statistics and basic multivariate quantitative methods. The course is conducted in English.

Learning outcomes

After having completed the course, students are expected to be able to:

- characterize and explain the steps in the systematic review process (problem formulation, identification of studies, data extraction, study quality appraisal, synthesis, dissemination).
- critically appraise and interpret meta-analyses of quantitative research evidence.
- understand the fundamental problems related to internal and external validity, and be able to reflect and argue for its consequences for applying social science research in practice.
- conduct oneself critical to the role played by systematic reviews in policy and practice decisions.

Assessment and examination

This course consists of group discussions and computer-based exercises. All course work is based on collaborative work. Participation in group discussions is therefore mandatory. The course is examined through four individual assignments:

1. Review protocol (project plan)
2. Evidence-grading of a primary study
3. Critical review of a meta-analysis
4. Reality and complexity in evidence-based decision making

Assignments 1-3 are assessed as Pass or Fail. Assignment 4 is assessed according to the criteria detailed below.

Criterion referenced assessment

Criteria	Concepts and basic assumptions	Results and conclusions	The link between results and recommendation	Approach
Good	Detailed and critical discussion of concepts and basic assumptions	Clear and informed description of results and conclusions	Clear, detailed and critical description of the link between results and recommendation	Independent approach to the literature
Some Shortcomings	Clear description of concepts and basic assumptions	Clear description of results and conclusions	Clear and detailed description of the link between results and recommendation	Open approach to the literature
Fail	Unclear or incorrect presentation of concepts and basic assumptions	Unclear or incorrect description of results and conclusions	Unclear or incorrect description of the link between results and recommendation	Lacks an independent approach to the literature

Late assignments will be penalized, and will rarely be graded good.

The final grade is based on the following criteria:

To receive grades A-E, students have to pass all assignments.

- To get **A (excellent)**, Assignment 4 has to be Good on all criteria.
- To get **B (very good)**, Assignment 4 has to be Good on all criteria except one.
- To get **C (good)**, Assignment 4 has to be Good on at least two criteria
- To get **D (satisfactory)**, Assignment 4 has to be Good on at least one criteria
- To get **E (sufficient)**, Assignment 4 has some shortcomings on all criteria.
- To get **Fx (insufficient)**, Assignment 4 fails on at least one criteria and/or the student has not passed assignments 1-3 or the student has not participated in collaborative group work.
- To get **F (fail)**, Assignment 4 fails on at least one criteria and the student has not passed assignments 1-3 and the student has not participated in collaborative group work.

Transitory Regulations

A student who has been awarded the grade Fx or F twice by the same instructor on the course has the right to have his/her next exam being evaluated by another instructor. If the student so wishes, he/she should contact the director of undergraduate studies.

Readings

Course Books

- **Petticrew, M. & Roberts, H. (2006). Systematic reviews in the social sciences: a practical guide. London: Blackwell.**
- Bogenschneider, K. & Corbett, T. J. (2010). Evidence-based policymaking. Insights from policy-minded researchers and research-minded policymakers. New York: Routledge Academic (e-book access via Stockholm University library)

Other Books used for reference

- Borenstein, M. et al. (2009). Introduction to meta-analysis. Chichester: John Wiley & Sons.
- Davies, H. T. O., Nutley, S. M. & Smith, P. S. (Eds.) (2000). What works? Evidence-based policy and practice in public services. Bristol: The Policy Press.

Articles, chapters, Campbell/Cochrane reviews

- Aboud, F. E., Tredoux, C., Tropp, L. R., Brown, C. S., Niens, U., & Noor, N. M. (2012). Interventions to reduce prejudice and enhance inclusion and respect for ethnic differences in early childhood: A systematic review. *Developmental review*, 32(4), 307-336.
- Altman, D. G. et al. (2001). The revised CONSORT statement for reporting randomized trials: explanation and elaboration. *Annals of Internal Medicine*, 134: 663-694.

- Andréa Löfholm, C., Brännström, L., Olsson, M. & Hansson, K. (2013). Treatment-as-usual in effectiveness studies: What is it and does it matter? *International Journal of Social Welfare*, 22(1): 25-34.
- Aas, R. W. & Alexanderson, K. (2012). Challenging evidence-based decision-making: a hypothetical case study about return to work. *Occupational Therapy Internl*, 19: 28-44.
- Boaz, A. & Pawson, R. (2005). The perilous road from evidence to policy: five journeys compared. *Journal of Social Policy*, 34(2): 175-194.
- Britten, N. et al. (2002). Using meta-ethnography to synthesise qualitative research: a worked example. *Journal of Health Services Research and Policy*, 7(4): 209-215.
- Gendreau, P. & Smith, P. (2007). Influencing the “people who count”. Some perspectives on the reporting of meta-analytic results for prediction and treatment outcomes with offenders. *Criminal Justice and Behavior*, 34(12): 1536-1559.
- GRADE Working Group (2004). Grading quality of evidence and strength of recommendations. *British Medical Journal*, 328(19): 1-8.
- Guyatt, G. et al. (2011). GRADE guidelines: 1. Introduction – GRADE evidence profiles and summary of findings tables. *Journal of Clinical Epidemiology*, 64: 383-394.
- Harris, R. J. et al. (2008). metan: fixed- and random-effects meta-analysis, *The Stata Journal*, 8: 3-28.
- Henggeler, S. et al. (2006). Methodological critique and meta-analysis as Trojan horse. *Children and Youth Services Review*, 28(4): 447-457.
- Lieberman, S. (1992). Einstein, Renoir, and Greely: some thoughts about evidence in sociology. *American Sociological Review*, 57: 1-15.
- Littell, J. (2005). Lessons from a systematic review of effects of multisystemic therapy. *Children and Youth Services Review*, 27(4): 445-463.
- Littell, J. et al. (2005). Multisystemic therapy for social, emotional, and behavioral problems in children and adolescents aged 10-17. *Campbell Systematic Review* 2005:1. Oslo: The Campbell Collaboration.
- Littell, J. (2006). The case for multisystemic therapy: Evidence or orthodoxy? *Children and Youth Services Review*, 28(4): 458-472.
- MacLure, M. (2005). ‘Clarity bordering to stupidity’: Where’s the quality in systematic review? *Journal of Education Policy*, 20(4): 393-416.
- Moher, D. et al. (2009). Preferred reporting items for systematic reviews and meta-analyses: the PRISMA statement. *Annals of Internal Medicine*, 151(4): 264-270.
- Mullen, E. J. (2006). Choosing outcome measures in systematic reviews: critical challenges. *Research on Social Work Practice*, 16(1): 84-90.
- Pawson, R. et al. (2005). Realist review – a new method of systematic review designed for complex policy interventions. *Journal of Health Services Research and Policy*, 10(S1): 21-34.
- Smedslund, G. et al. (2006). Work programmes for welfare recipients. *Campbell Systematic Review* 2006:9. Oslo: The Campbell Collaboration.
- Smith, G. C. S. & Pell, J. P. (2003). Parachute use to prevent death and major trauma related to gravitational challenge: systematic review of randomised controlled trials. *British Medical Journal*, 327: 1459-1461.
- Sterne, J.A.C. et al. (2001). ”Meta-analysis in Stata”, in Egger, M., Davey Smith, G. & Altman, D. G. (Eds.), *Systematic Reviews in Health Care: Meta-Analysis in Context*. 2nd edition. London: BMJ.
- Stroup, D. E. et al. (2000). Meta-analysis of observational studies in epidemiology: a proposal for reporting. *JAMA*, 283(15): 2008-2012.

- Vedung, E. (2010). Four waves of evaluation diffusion. *Evaluation*, 16(3): 263–277.

Other Readings

- Higgins, J. P. T. & Green, S. (Eds.) (2008). *Cochrane handbook for systematic reviews of interventions*. Hoboken: Wiley-Blackwell.
- Saini, M. & Shlonsky, A. (2012). *Systematic synthesis of qualitative research*. Oxford: Oxford University Press.
- Shemilt, I. et al. (Eds.) (2010). *Evidence-based decisions and economics. Health care, social welfare, education and criminal justice*. 2nd edition. Chichester: Wiley-Blackwell.
- Sterne, J. A. C. (Ed.) (2009). *Meta-analysis in Stata: an updated collection from the Stata Journal*. College Station: Stata Press.

Schedule: Systematic Reviews, 7.5 ECTS-credits, Fall 2017

Meeting	Date, Time, Room	Topic
1	5/11/18, Monday K1 13-15, B487	Introduction
2	7/11/18, Wednesday K1. 13-15, F220	Formulating an answerable review question; identifying relevant studies and outcomes
3	9/11/18, Friday K1. 10-12, Library	Advanced information searching
4	12/11/18, Monday K1. 12-14, B487	Systematic methods for study quality appraisal, data extraction, evidence-grading and making recommendations
5	15/11/18, Thursday K1. 12-14, D220	Systematic methods for research synthesis
6	19/11/18, Monday K1. 13-16, LAB	Practical Meta-analysis in Stata
7	22/11/18, Thursday K1. 14-16, F315	Possibilities and pitfalls of systematic reviews
8	26/11/18, Monday K1. 13-15, F307	Evidence and Education: Systematic Reviews in Practice (guest Per Kornhall)
9	3/12/18, Monday K1. 13-15, B307	Reality and complexity in policy and practice decision-making: lessons for a systematic review (guest Emilie Andersson)