

Health Services Research & Practice

Course Learning Objectives:

The course aims (1) to introduce basic knowledge and methods in *Health Services Research*; (2) to familiarize students with the essential elements of proposal/manuscript development.

This is a 2-credit course. This course is conducted mainly with both lectures and class discussion. Students are required to make presentations and submit a research proposal/manuscript. By the end of the course, each student should have done the following tasks:

1. To understand basic knowledge in *Health Services Research*
2. To perform the essential elements of proposal/manuscript development
3. To constructively critique dissertation proposals and academic articles of others.

Instructor: Nicole Huang (syhuang@ym.edu.tw)

Guest Lecturer: Chuan-Yu Chen (chuanychen@ym.edu.tw)

Teaching Assistant: TBA

Grading:

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| One mid-term presentation | 20% |
| Final presentation | 40% |
| Student Discussions: Critiquing others' work | 30% |
| Participation & Attendance | 10% |

Class Times: Wednesday 13:20 – 15:10

Location: TBA

| <i>Session</i> | <i>Date</i> | <i>Topic</i> |
|----------------|-------------------|---|
| 1 | Sep. 16 | 1. Course Introduction 2. Formulation of Research Questions: Identifying Problems, Background & Significance |
| 2 | Sep. 23 | Literature Search & Review (I) |
| 3 | Sep. 30 | Literature Search & Review (II) |
| 4 | Oct. 07 | Student discussion of selected articles Background、Significance、Specific Aims & Literature Review |
| 5 | Self-Study | 1. Reference Database Searching Skill Development 2. EndNote Tutorial |
| 6 | Oct. 14 | Mid-term presentation: Introduction (Background/Significance/Literature Review) |
| 7 | Oct. 21 | Mid-term presentation: Introduction (Background/Significance/Literature Review) |
| 8 | Oct. 28 | Methods: Secondary data for Health Services Research |
| 9 | Nov. 04 | Methods: Primary data for Health Services Research |
| 10 | Nov. 11 | Methods: Basics of Research Design |
| 11 | Nov. 18 | Methods: Internal & External Validity |
| 12 | Nov. 25 | Student discussion of selected articles: Methods |
| 13 | Dec. 02 | 學校運動會 NO CLASS |
| 14 | Dec. 09 | Results And Discussion |
| 15 | TBA | Consultation for Final Presentation Preparation |
| 16 | Dec. 16 | Student discussion: writing examples of Results and Discussion sections |
| 17 | Dec. 23 | Final Student Presentation: proposal/manuscript |
| 18 | Dec. 30 | Final Student Presentation: proposal/manuscript |

Recommended Textbooks:

1. Leiyu Shi (2007). Health Services Research Methods, 2nd edition. Delmar Cengage Learning. Albany, USA.
2. Bruce, N. Pope, D. and Stanistreet, D. (2008) Quantitative Methods for Health Research: A Practical Interactive Guide to Epidemiology and Statistics. Hoboken, NJ: Wiley-Interscience.
3. Chris Hart (2018). Doing a Literature Review: Releasing the Social Science Research Imagination. 2nd edition. Sage Publications Ltd.. London, UK.
4. Gliner, J.A., Morgan, G.A., and Leech, N.L. (2009). Research Methods in Applied Settings: An Integrated Approach to Design and Analysis. 2nd Edition. Mahwah, NJ: Lawrence Erlbaum Associates, Inc.**
5. 陳為堅 (2009). 科學論文寫作入門. 金名圖書有限公司。

Please read all assigned materials in advance.

Session 1:

1. Shi, L. (2007). “Chapter 1: Scientific Foundation of Health Services Research” and “Chapter 2: Conceptualizing Health Services Research” In Health Services Research Methods, 2nd edition. Albany, NY: Delmar Cengage Learning Chapter 1-2, pages 1-60.
2. Hart, C. (2018). “Chapter 1: The Research Imagination” In Doing a Literature Review: Releasing the Social Science Research Imagination. 2nd edition, Sage Publications Ltd..
3. Cals JW, Kotz D. Effective writing and publishing scientific papers, Part I: How to get started and part III: Introduction. Journal of Clinical Epidemiology. 2013 Jul;66(7):397 and 702
4. 陳為堅. (2009). 科學論文寫作入門: 寫給初學者的信.台北縣中和市: 金名圖書., 第一章-第三章, 1-24 頁.

Session 2-3

1. Brownson RC et al., (2003). “Searching the scientific literature and organizing information.” In Evidence-based Public Health. Oxford: Oxford Press.
2. Shi, L. (2007). “Chapter 4: Research Review” In Health Services Research Methods, 2nd edition. Albany, NY: Delmar Cengage Learning Chapter 4, pages 92-113.
3. Hart, C. (2018). “Chapter 2: The Purpose of Literature Reviewing,” “Chapter 3: Classifying and Reading Research to Review” and “Chapter 7: Understanding and Analyzing the Ways Ideas are Organized” In Doing a Literature Review: Releasing the Social Science Research Imagination. 2nd edition, Sage Publications.
4. 陳為堅. (2009). 科學論文寫作入門: 寫給初學者的信.台北縣中和市: 金名圖書., 第四章, 25-36 頁.

Session 4 (Student Discussion):

1. Zajacova, A. (2006). “Education, gender, and mortality: Does Schooling Have the Same Effect on Mortality for Men and Women in the US?” Social Science and Medicine, 63:2176-2190.

2. Fowler, F.J., et al. (2008) "Relationship between regional per capita Medicare expenditures and patient perceptions of quality of care." *JAMA*, 299(20):2406-2412.
3. Asaria, M., et al., (2016) "How a universal health system reduces inequalities: lessons from England" *J Epidemiol Community Health*, 70(7): 637-643.
4. Martsof, G.R., et al. (2016). "An Examination of Hospital Nurse Staffing and Patient Experience with Care: Differences between Cross-Sectional and Longitudinal Estimates" *Health Services Research*, 51(6):2221-2241.
5. Lewis, V.A. et al., (2017). "The New Frontier of Strategic Alliances in Health Care: New Partnerships Under Accountable Care Organizations" *Soc Sci Med*, 190:1-10.

Session 8:

1. Shi, L. (2007). *Health Services Research Methods*, 2nd edition. Albany, NY: Delmar Cengage Learning Chapter 5, pages 114-124.
2. Bruce, N. et al., (2008). *Quantitative Methods for Health Research: A Practical Interactive Guide to Epidemiology and Statistics*. Hoboken, NJ: Wiley-Interscience, Chapter 2.1 & 2.5, pages 29-30, 78-86.
3. Hsing, A.W. et al. (2015) "Nationwide Population Science: Lessons from the Taiwan National Health Insurance Research Database." *JAMA Intern Med*, Published online July 20, 2015.

Session 9:

1. Korn, E. L., and Graubard, B. I. (1991). "Epidemiologic studies utilizing surveys: accounting for the sampling design." *American Journal of Public Health*, 81(9), 1166-1173.
2. Hinkin TR. A brief tutorial on the development of measures for use in survey questionnaires. *Organizational Research Methods*, 1998; 1(1): 104-121
3. Lu Ann Aday and Llewellyn J. Cornelius. (2006). *Designing and conducting health surveys. A comprehensive Guide*. 3rd edition. Lossey-Bass Publishers. Chapter VIII & XII.
4. Turner, C.F., et al. (1998) "Adolescent sexual behavior, drug use, and violence: Increased Reporting with computer survey technology." *Science*, 280:867-873.

5. Watson, L.F., et al. (2007) "Research interviewers' experience in the Early Births study of very preterm birth: qualitative assessment of data collection processes in a case-control study." *Paediatr Perinat Epidemiol*, 21:87-94.
6. McNeeley S. (2012). *Sensitive Issues in Surveys: Reducing Refusals While Increasing Reliability and Quality of Responses to Sensitive Survey Items*. L. Gideon (ed.), *Handbook of Survey Methodology for the Social Sciences*, Springer Verlag.

Session 10-11:

1. Blettner, M. et al., (2001). "Critical reading of epidemiological paper." *European Journal of Public Health*, 11(1): 97-101.
2. Gliner, J.A., Morgan, G.A., and Leech, N.L. (2009). *Research Methods in Applied Settings: An Integrated Approach to Design and Analysis*. 3rd Edition. Mahwah, NJ: Lawrence Erlbaum Associates, Inc., Chapter 4 (P.45-54), Chapter 5(P. 55-71), Chapter 7(P. 89-100), Chapter 8 (P.101-110) and Chapter 9 (P.128-131).
3. Cals JW, Kotz D. Effective writing and publishing scientific papers, Part IV: Methods. *Journal of Clinical Epidemiology*. 2013 Jul;66(7):817
4. 陳為堅. (2009). *科學論文寫作入門: 寫給初學者的信*.台北縣中和市: 金名圖書., 第五章-第九章, 37-59 頁.

Optional:

1. Baron, R.M., and Kenny, D.A. (1986). "The moderator-mediator variable distinction in social psychological research: Conceptual, strategic and statistical consideration." *Journal of Personality and Social Psychology*, 51(6): 1173-1182.
2. Galea, S. et al., (2010). "Causal thinking and complex system approaches in epidemiology." *International Journal of Epidemiology*, 39:97-106

Session 12 (Student Discussion):

1. Bell , CM and Redelmeier DA. (2001) "Mortality among patients admitted to hospitals on weekends as compared with weekdays." *N Engl J Med*, 345(9):663-668.
2. Herrin, J., et al. (2015). "Community Factors and Hospital Readmission Rates." *Health Services Research*, 50(1): 20-39.

3. Matthews A., et al., (2016). "Impact of statin related media coverage on use of statins: interrupted time series analysis with UK primary care data." *BMJ*, 353:i.3283.
4. Fu H., et al., (2018) "Intended and unintended impacts of price changes for drugs and medical services: Evidence from China" *Soc Sci Med*, 211:114-122.

Session 14:

1. Cals JW, Kotz D. Effective writing and publishing scientific papers, Part V: Results, part VI: Discussions, and Part VII: Tables and Figures. *Journal of Clinical Epidemiology*. 2013 Jul;66(7):945, 1064 and 1197
2. Gliner, J.A., Morgan, G.A., and Leech, N.L. (2009). *Research Methods in Applied Settings: An Integrated Approach to Design and Analysis*. 3rd Edition. Mahwah, NJ: Lawrence Erlbaum Associates, Inc., Chapter 23 (P.341-354) and Chapter 24 (P. 355-364).
3. 陳為堅. (2009). *科學論文寫作入門:寫給初學者的信*.台北縣中和市: 金名圖書., 第六章-第九章, 61-148 頁.

Session 16 (Student Discussion):

1. Christakis, NA., et al., (2006). "Mortality after the hospitalization of a spouse." *N Engl J Med*, 354(7): 719-730.
2. Li, Y., et al., (2011). "Racial disparities in re-hospitalization among Medicare patients in skilled nursing facilities." *Am J Public Health*, 101(5):875-82.
3. Lau, J.S. et al., (2014) "Improvement in Preventive Care of Young Adults after the Affordable Care Act: The Affordable Care Act is Helping." *JAMA Pediatrics*, 168(12):1101-1106.
4. Kralewski J., et al., (2015). "The Relationships of Physician Practice Characteristics to Quality of Care and Costs." *Health Services Research*, 50 (3): 710-729.
5. Charlesworth, C.A., et al. (2016). "Comparison of Low-Value Care in Medicaid vs Commercially Insured Populations" *JAMA INTERN MED*, 176(7):998-1004.