

APPENDIX A:

Database: Ovid MEDLINE(R) In-Process & Other Non-Indexed Citations, Ovid MEDLINE(R) Daily and Ovid MEDLINE(R) <1946 to Present>

Search Strategy:

-
- 1 Interrupted Time Series Analysis.mp.
 - 2 "change point model\$.mp.
 - 3 Interrupted Time Series Analysis/
 - 4 (interrupt\$ adj3 (time\$ series\$ or time-series)).mp.
 - 5 (Interven\$ adj3 (time\$ series\$ or time-series)).mp.
 - 6 (segment\$ adj2 regression\$).mp.
 - 7 ((time\$ series\$ or time-series) adj2 regression\$).mp.
 - 8 1 or 2 or 3 or 4 or 5 or 6 or 7
 - 9 limit 8 to english language

APPENDIX B:

ELIGIBILITY CRITERIA

Level 1 screening

1. Does this paper report on a method or application/review of ITS design or analysis?

YES_____

NO_____

UNCLEAR_____

2. Is the study related to health as defined by the WHO (i.e., philosophy, health, education)?

YES_____

NO_____

UNCLEAR_____

If you answer NO to any of these questions, the citation/study will be excluded. All other citations will be included.

Level 2 screening

1. Does this paper report on a method or application of ITS design or analysis?

Yes_____

No_____

Unclear_____

2. Is the study related to health (i.e., philosophy, health, education)?

Yes_____

No_____

Unclear_____

3. Is there a clearly defined time point when intervention was started or implemented?

Yes_____

No_____

Unclear_____

4. Are there at least three time points before and after implementation of intervention?

Yes_____

No_____

Unclear_____

5. Was the study outcome objectively measured?

Yes_____

No_____

Unclear_____

If you answer NO to any of these questions, the citation will be excluded. All other full-text articles will be included

APPENDIX C:

DATA ABSTRACTION

General Study Characteristics

1. First author
2. Year of publication
3. Journal and type of journal (i.e., general or specialty)
4. Type of article (i.e. methodological or application)
5. Discipline
6. Title of Article
7. Key article or article complementary to a previously suggested method
8. Country
9. Sponsorship or funding source

Methodological papers:

1. Name of Method
2. General description of methods
3. Type of outcome.
4. Study type that the methodology is applicable to (only if this is clearly mentioned in the text)
5. Software used to implement method.
6. Were any assumptions made or tested?
7. Was the model validated? If so, how? How good was the performance of the model?
8. Was there a comparison of methods? What statistical methods were used to do the comparison?
9. Was the data management process reported?
10. Description of the data management process for the analysis

Application papers:

1. Discipline or field of application (pharmacy, guideline development, etc)
2. Description of study (e.g. number of interruptions)
3. Setting of study (e.g. single site, multi-site)
4. Analysis Method used
5. Number of time points in each phase
6. Type of primary outcome (Continuous, binary, count)
7. Number of outcomes
8. Kind of data (audit, retrospective, survey)
9. Number of patients at each time point/period (if reported)
10. Assumptions tested or checked
11. Justification for performing ITS analysis

12. Methods and models used to estimate the effect of intervention

13. Approaches used reporting of summary estimates (e.g. figures, tables, text)