

Additional File 2. Deviations from protocol

| Original plan | Revised plan | Reason for modification |
|--|---|--|
| We planned to search for published protocols of interrupted time series (ITS) studies indexed in three bibliographic databases (PubMed, MEDLINE, and Embase via Ovid) and in the JMIR Research Protocols. | We included additional bibliographic databases (e.g. CINAHL, CENTRAL, Web of Science) and other sources (e.g. open access repositories, grey literature databases, trial registries), adding to a total of 22 sources. | This maximises the likelihood of capturing all potential ITS study protocols, since the search filter may not capture protocols that do not have the term "interrupted time series" in their titles and abstracts. |
| We planned to search for corresponding report(s) of the results in Ovid MEDLINE and Embase, trial registration sites, and using forward citation searching tools, such as Web of Science's Cited Reference Search. | We included three more sources for searching: PubMed, ConnectedPapers.com and Google Scholar. | This maximises the likelihood of capturing all potential ITS results reports. |
| We planned to have one reviewer (PYN) extract the data for all studies and a second reviewer (JEM, EK, MJP, or SLT) independently extracting data for a random sample of 10% of the studies after the pilot. This also applied to the assessment of discrepancies. | We had two teams of reviewers assess two groups of items: PYN and MJP for items related to study design, and EK and SLT for items related to the characteristics/modelling of the time series and statistical methods. For each item, the team of reviewers assessed 100% of the studies. JEM served as the arbitrator when the two reviewers could not reach consensus via discussion. | This improved consistency in applying the decision rules, as the same team of authors assessed all studies for each item. |

Additional File 3. Key definitions and eligibility criteria used in screening

3.1. Eligible protocols of ITS studies

Eligible protocols include protocols and statistical analysis plans of ITS studies.

We defined an ITS study based on the following criteria:

- (a) Characteristics of the time series: The study involved a time series with the following features: (i) there were at least two segments separated by a clearly defined interruption (i.e. an intervention or an exposure), (ii) there were at least three data points for at least two of the segments, and (iii) each data point represented a summary statistic (e.g., mean or rate) of individual observations collected from a group of individuals (e.g., within a country, state, hospital, or other unit) within a period of time (e.g., weekly or monthly);
- (b) Intention to undertake an ITS analysis: Indication of such an intention includes: (a) specifying "interrupted time series" in the title, abstract or the methods section of the article, or (b) describing statistical methods consistent with ITS analysis methods, such as segmented regression, or an autoregressive integrated moving average (ARIMA) model in the presence of an interruption in the time series.

If the design criteria for the time series were met but the authors only planned to undertake non-ITS analyses (e.g., simply comparing the pre- and post-interruption means without modelling time trend), the protocols were excluded. Alternatively, if the authors expressed an intention to undertake an ITS analysis but the time series failed any of the design criteria (e.g., having fewer than three data points for one segment), the protocols were also excluded. If there was insufficient information about the characteristics of the time series, we only assessed criterion (b), with studies meeting this criterion being included.

Studies that planned to conduct ITS analysis alongside other types of analyses (e.g., qualitative analysis or cost-effectiveness modelling) were eligible. Both controlled and uncontrolled ITS studies were eligible. Studies that used the ITS design to examine the effects of an intervention on individuals (e.g. using multilevel model with a random slope term for time at the participant level) were ineligible. We excluded conference abstracts and protocols not written in English.

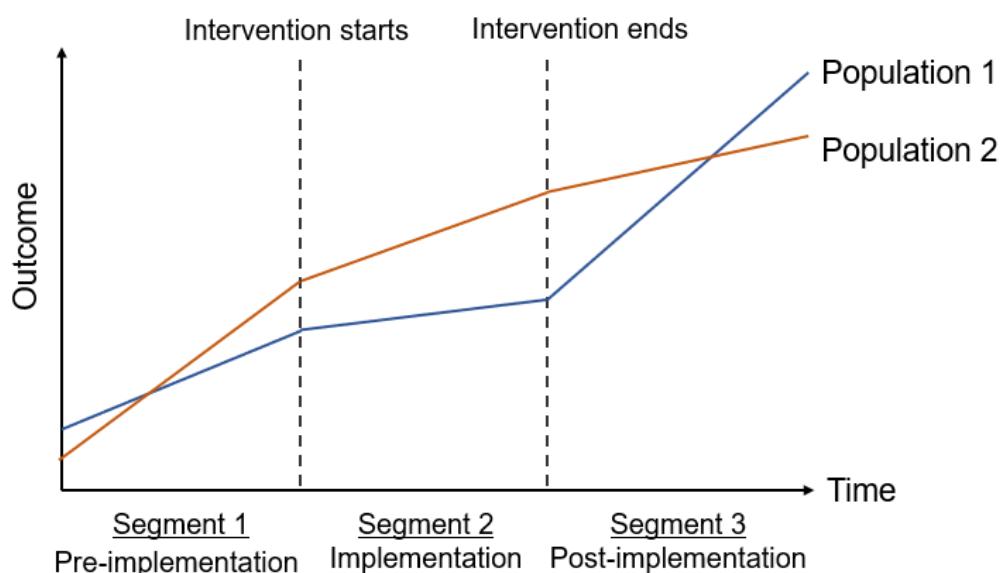
3.2. Primary ITS research questions

For each protocol, we identified the "primary ITS research question" i.e. the ITS research question reported by the authors as the "primary analysis", "primary objective" or "primary research aim"; or alternatively, the first research question specified under the Research Aims/Objectives or Methods section that was planned to be analysed using ITS analysis methods. If a protocol included both an ITS analysis and other types of analyses (e.g., qualitative analysis or cost-effectiveness modelling), we only considered the ITS analysis for the primary ITS research question.

To form the primary ITS research question, we extracted information about the following elements: the population/setting (P), the interruption group(s) (I), and the comparator group(s) (C). For the purpose of our study, we use the term "group" to refer to interventions or exposures that occur in different time periods or segments. If there were multiple interventions investigated, the first mentioned intervention was selected for primary ITS research question. We did not include the outcome elements (O) in the primary ITS research question, because our interest lay in examining outcome/result reporting bias. The primary ITS research question did not have to include all of the abovementioned elements.

We constructed the primary ITS research question using the reported elements: *What is the effect of [intervention], implemented at [setting / location], compared to [comparator periods / comparison sites / comparison group]?*

Case study: Suppose an ITS has three segments. The first segment is the pre-implementation period; the second is the implementation period and the third is the post-implementation period. The intervention is evaluated in two populations (population 1 and 2).



If the authors stated "Our primary aim is to examine the effect of the implementation period and that of the post-implementation periods in population 1", then we constructed the primary ITS research questions to be:

- What is the effect of implementation period in population 1 compared with pre-implementation?
- What is the effect of post-implementation period in population 1 compared with pre-implementation?
- What is the effect of post-implementation period in population 1 compared with implementation?

If the authors stated "Our primary aim is to investigate the change in outcome following the commencement of the intervention", we would combine the implementation and post-implementation periods as one segment, and consider any results pertaining to both population 1 and 2 (since the population was not stated in the aim). We constructed the primary ITS research questions to be:

- What is the effect of the implementation and post-implementation periods in population 1, compared with pre-implementation?
- What is the effect of the implementation and post-implementation periods in population 2, compared with pre-implementation?

3.3. Eligible reports of ITS results

"Report(s) of the results" were defined as any peer-reviewed report that met the following criteria:

- (a) The report addressed the same primary ITS research question(s) as the protocol; AND
- (b) The report either (1) acknowledged and cited the original protocol, or (2) matched the original protocol in at least one of the following details: funding or grant number, ethics application number, trial registration number, unique name or acronyms of the intervention.

We included results reports regardless of the outcomes specified in the protocol. For example, if the authors stated in the protocol that they aimed to evaluate an intervention designed to reduce cardiovascular adverse outcomes among hypertension patients, when screening the potential results report, we checked if the intervention was designed to reduce cardiovascular adverse outcomes, but we did not exclude a results report if they only reported other outcomes (e.g., quality of life) that were not specified in the protocol.

Exclusion criteria: We excluded conference abstracts and short reports, and reports not written in English. Methods papers in which data from the ITS was used, for example, to demonstrate the impact of using different statistical analysis methods, were ineligible.

If we were uncertain whether a report was indeed the results of research carried out under a protocol (e.g., when the primary ITS research question was the same but there was no citation of the protocol nor any of the abovementioned detail), we contacted the corresponding author of the protocol to clarify. If the author did not respond after two weeks, the team discussed and reached a consensus on the eligibility of the results report.

3.4. Eligible results

We defined an "eligible result" as any measure of a difference between the two segments of interest; for example, the difference between the pre-intervention segment and post-intervention segment. An eligible result could be either (1) a numerical result: an effect estimate with/without the 95% confidence interval or standard error, or a p-value; or (2) a

qualitative statement about the change between two time segments (e.g., "There is a statistically significant increase in the level of [outcome] between the two time periods"). Presentation of only summary statistics within each period (e.g., means) were ineligible.

An eligible result could be from an analysis that was or was not an ITS analysis (Section 5.1 for further details on what was considered an ITS analysis) or for an outcome that was not specified in the protocol, as long as it addressed the primary ITS research question(s).

Additional File 4. Creating the database of ITS study protocols and their results reports

4.1 Creating a database of ITS study protocols

4.1.1 Literature search for protocols

We searched eight bibliographic databases, five trial registries, four open-source repositories, two grey literature databases, one pre-print server and two open access journals that publish protocols. For MEDLINE, PubMed and Embase, we used a search filter designed to locate ITS studies with high sensitivity (16), and added keywords for protocols. The last search was on 12 January 2023, including all protocols from inception date until 31 December 2022.

4.1.2 Screening of protocols

One author (PYN) screened all titles and abstracts. A 10% random sample of abstracts deemed ineligible and all abstracts deemed eligible by PYN were independently screened by one of JEM, SLT, EK, or MJP. All full text articles were independently screened by two authors. Discrepancies were resolved through discussion between the screening authors or through team discussions.

4.1.3 Identifying the primary ITS research question(s)

For each protocol, two authors (PYN and MJP) independently identified the "primary ITS research question(s)"; the ITS research question(s) reported by the authors as "primary", or alternatively the first reported in the protocol. We used the primary ITS research question(s) to determine whether the study had been published (see Section 3.2).

4.2 Identifying corresponding results reports of ITS studies

4.2.1 Literature search for results reports

For each protocol, we searched in PubMed, Ovid MEDLINE and Embase for corresponding results reports. The search strategy was tailored for each protocol, combining two elements: (a) identifiers of the study such as study's name or acronym, description of intervention, study registration number, etc. AND (b) either the first author, last author or the corresponding author. We additionally searched clinical trial registries (if applicable), Google Scholar and a forward citation tool. The initial search was conducted in January 2023 and three subsequent searches were conducted, once every 6 months, for all results reports published up to 30 June 2023.

4.2.2 Screening for eligible results reports

One author (PYN) screened the full text of all retrieved reports. 50% of full text reports deemed ineligible and 100% full text reports deemed eligible by PYN were independently screened by one of JEM/SLT/EK/MJP.

During screening, we first checked that the result report addressed the primary ITS research question(s) that we had identified in its corresponding protocol. In determining this, we considered the population/setting, interruption group(s) and the comparator group(s) elements of the research question(s). In addition, we checked whether the report cited the original protocol, or could be linked to the protocol via details such as trial registration

number. If we were unsure, we contacted the corresponding authors to clarify. If the authors did not respond, a decision was reached via team discussion.

Additional File 5. Data extraction form

| Question | Options | | | | | | | | | | |
|---|---|----|----------------------|---|--------------------------|---|---|---|----------|-----|-------------------|
| Information from protocols – Basic information | | | | | | | | | | | |
| Title of protocol | text | | | | | | | | | | |
| What is the name of the publishing journal? | text | | | | | | | | | | |
| Does the protocol describe other planned analyses in addition to the ITS analysis (e.g. interviews, a pre-post analysis, cost-effectiveness study) The protocol often refers to these as multiple objectives, aims, sub-studies, or work packages (WPs). | multiple-choice <table border="1" style="display: inline-table; vertical-align: middle;"> <tr> <td>1</td><td>Yes</td></tr> <tr> <td>0</td><td>No</td></tr> </table> | 1 | Yes | 0 | No | | | | | | |
| 1 | Yes | | | | | | | | | | |
| 0 | No | | | | | | | | | | |
| What is the source of funding? In-kind materials are also considered funding, and should be described in subsequent questions about the role of the funder. | checkbox <table border="1" style="display: inline-table; vertical-align: middle;"> <tr> <td>99</td><td>Cannot be determined</td></tr> <tr> <td>0</td><td>No funding</td></tr> <tr> <td>1</td><td>Non-industry (non-profit, academic, government)</td></tr> <tr> <td>2</td><td>Industry</td></tr> <tr> <td>999</td><td>Other [elaborate]</td></tr> </table> | 99 | Cannot be determined | 0 | No funding | 1 | Non-industry (non-profit, academic, government) | 2 | Industry | 999 | Other [elaborate] |
| 99 | Cannot be determined | | | | | | | | | | |
| 0 | No funding | | | | | | | | | | |
| 1 | Non-industry (non-profit, academic, government) | | | | | | | | | | |
| 2 | Industry | | | | | | | | | | |
| 999 | Other [elaborate] | | | | | | | | | | |
| Briefly describe the intervention(s) or exposure(s) that constitute the interruption points. | text | | | | | | | | | | |
| What is the nature of interruption? <ul style="list-style-type: none"> • Natural events: e.g. disease outbreaks, weather-related or geological events (floods, earthquakes) • Unplanned human-made events: unintended or unforeseen human-driven events e.g. economic recession, environmental disasters, industrial accidents | multiple-choice <table border="1" style="display: inline-table; vertical-align: middle;"> <tr> <td>99</td><td>Cannot be determined</td></tr> <tr> <td>1</td><td>Exposure: Natural events</td></tr> <tr> <td>2</td><td>Exposure: Unplanned human-made events</td></tr> </table> | 99 | Cannot be determined | 1 | Exposure: Natural events | 2 | Exposure: Unplanned human-made events | | | | |
| 99 | Cannot be determined | | | | | | | | | | |
| 1 | Exposure: Natural events | | | | | | | | | | |
| 2 | Exposure: Unplanned human-made events | | | | | | | | | | |

| Question | Options | | | | | | | | | | | | |
|--|---|----|---|---|---|---|---|---|---|---|---|-----|-------------------|
| <ul style="list-style-type: none"> Practice change in a clinical setting: a new or modified clinical practice, treatment, care model/pathway, etc. This also includes strategies to facilitate such implementation (e.g. facilitators, education and training). Health system interventions: interventions involving systemic changes at multiple levels e.g. health system strengthening, workforce changes, complex interventions involving multiple stakeholders Policy and regulatory changes: modifications in laws, national guidelines, or health system regulations e.g. taxation, lockdowns, national vaccination programmes Social and economic interventions: initiatives that extend beyond healthcare, addressing broader social and economic determinants of well-being e.g. cash grants, microfinancing, health insurance model Environmental interventions: modifications to the living and natural environment to influence public health e.g. mosquito control programs, urban planning | <table border="1"> <tr> <td data-bbox="1158 258 1230 346">3</td><td data-bbox="1230 258 1812 346">Intervention: Practice change in a clinical setting</td></tr> <tr> <td data-bbox="1158 346 1230 401">4</td><td data-bbox="1230 346 1812 401">Intervention: Health system interventions</td></tr> <tr> <td data-bbox="1158 401 1230 457">5</td><td data-bbox="1230 401 1812 457">Intervention: Policy & regulatory changes</td></tr> <tr> <td data-bbox="1158 457 1230 512">6</td><td data-bbox="1230 457 1812 512">Intervention: Social & economic interventions</td></tr> <tr> <td data-bbox="1158 512 1230 568">7</td><td data-bbox="1230 512 1812 568">Intervention: Environmental interventions</td></tr> <tr> <td data-bbox="1158 568 1230 608">999</td><td data-bbox="1230 568 1812 608">Other [elaborate]</td></tr> </table> | 3 | Intervention: Practice change in a clinical setting | 4 | Intervention: Health system interventions | 5 | Intervention: Policy & regulatory changes | 6 | Intervention: Social & economic interventions | 7 | Intervention: Environmental interventions | 999 | Other [elaborate] |
| 3 | Intervention: Practice change in a clinical setting | | | | | | | | | | | | |
| 4 | Intervention: Health system interventions | | | | | | | | | | | | |
| 5 | Intervention: Policy & regulatory changes | | | | | | | | | | | | |
| 6 | Intervention: Social & economic interventions | | | | | | | | | | | | |
| 7 | Intervention: Environmental interventions | | | | | | | | | | | | |
| 999 | Other [elaborate] | | | | | | | | | | | | |
| At which level will the interruption occur, or be delivered / implemented? <ul style="list-style-type: none"> Individual: The intervention is implemented in specific individuals without the intention to represent a geographical area. Unit-based or institutions: The intervention is implemented in one or more specific institutions, hospitals or departments within a hospital. Regional: The intervention is implemented in an entire district, state, province or region, or in a group of institutions purposely sampled to represent a region. National: The intervention is implemented in multiple districts/regions in a country, or the entire country, or in a group of institutions purposely sampled to represent a country. Multinational: The intervention is implemented in multiple countries. | multiple-choice <table border="1"> <tr> <td data-bbox="1158 798 1230 838">99</td><td data-bbox="1230 798 1545 838">Cannot be determined</td></tr> <tr> <td data-bbox="1158 838 1230 878">1</td><td data-bbox="1230 838 1545 878">Individual</td></tr> <tr> <td data-bbox="1158 878 1230 917">2</td><td data-bbox="1230 878 1545 917">Unit-based or institutional</td></tr> <tr> <td data-bbox="1158 917 1230 957">3</td><td data-bbox="1230 917 1545 957">Regional</td></tr> <tr> <td data-bbox="1158 957 1230 997">4</td><td data-bbox="1230 957 1545 997">National</td></tr> <tr> <td data-bbox="1158 997 1230 1036">5</td><td data-bbox="1230 997 1545 1036">Multinational</td></tr> </table> | 99 | Cannot be determined | 1 | Individual | 2 | Unit-based or institutional | 3 | Regional | 4 | National | 5 | Multinational |
| 99 | Cannot be determined | | | | | | | | | | | | |
| 1 | Individual | | | | | | | | | | | | |
| 2 | Unit-based or institutional | | | | | | | | | | | | |
| 3 | Regional | | | | | | | | | | | | |
| 4 | National | | | | | | | | | | | | |
| 5 | Multinational | | | | | | | | | | | | |

| Question | Options | | | | | | | | | | | | |
|--|--|----|----------------------|---|---|---|--|---|-------------|---|----------|---|---------------|
| At which level will the effect of the interruption be assessed in this study? <ul style="list-style-type: none"> Individual: The intervention is implemented in specific individuals without the intention to represent a geographical area. Unit-based or institutions: The intervention is implemented in one or more specific institutions, hospitals or departments within a hospital. Regional: The intervention is implemented in an entire district, state, province or region, or in a group of institutions purposely sampled to represent a region. National: The intervention is implemented in multiple districts/regions in a country, or the entire country, or in a group of institutions purposely sampled to represent a country. Multinational: The intervention is implemented in multiple countries. | multiple-choice <div style="border: 1px solid black; padding: 5px; width: fit-content;"> <table border="1" style="width: 100%; border-collapse: collapse;"> <tr><td style="width: 20px;">99</td><td>Cannot be determined</td></tr> <tr><td>1</td><td>Individual</td></tr> <tr><td>2</td><td>Unit-based or institutional</td></tr> <tr><td>3</td><td>Regional</td></tr> <tr><td>4</td><td>National</td></tr> <tr><td>5</td><td>Multinational</td></tr> </table> </div> | 99 | Cannot be determined | 1 | Individual | 2 | Unit-based or institutional | 3 | Regional | 4 | National | 5 | Multinational |
| 99 | Cannot be determined | | | | | | | | | | | | |
| 1 | Individual | | | | | | | | | | | | |
| 2 | Unit-based or institutional | | | | | | | | | | | | |
| 3 | Regional | | | | | | | | | | | | |
| 4 | National | | | | | | | | | | | | |
| 5 | Multinational | | | | | | | | | | | | |
| What is the country where the study was implemented? | text | | | | | | | | | | | | |
| Classify the country using the World Bank's income group | checkbox <div style="border: 1px solid black; padding: 5px; width: fit-content;"> <table border="1" style="width: 100%; border-collapse: collapse;"> <tr><td style="width: 20px;">1</td><td>Low-income</td></tr> <tr><td>2</td><td>Lower-middle income</td></tr> <tr><td>3</td><td>Upper-middle income</td></tr> <tr><td>4</td><td>High-income</td></tr> </table> </div> | 1 | Low-income | 2 | Lower-middle income | 3 | Upper-middle income | 4 | High-income | | | | |
| 1 | Low-income | | | | | | | | | | | | |
| 2 | Lower-middle income | | | | | | | | | | | | |
| 3 | Upper-middle income | | | | | | | | | | | | |
| 4 | High-income | | | | | | | | | | | | |
| Is the data collected retrospectively, prospectively, or both? Use your best judgment based on (1) the end date of the data collection period relative to the protocol's submission date, or if not available (2) the timing of the intervention, and (3) authors' words. If the intervention has not been conducted or is ongoing at the time of the protocol, select 'prospective'. | checkbox <div style="border: 1px solid black; padding: 5px; width: fit-content;"> <table border="1" style="width: 100%; border-collapse: collapse;"> <tr><td style="width: 20px;">99</td><td>Cannot be determined</td></tr> <tr><td>1</td><td>Retrospective: Data is already available or collected at the time of the submission of the protocol</td></tr> <tr><td>2</td><td>Prospective: Data will be collected after the submission of the protocol</td></tr> </table> </div> | 99 | Cannot be determined | 1 | Retrospective: Data is already available or collected at the time of the submission of the protocol | 2 | Prospective: Data will be collected after the submission of the protocol | | | | | | |
| 99 | Cannot be determined | | | | | | | | | | | | |
| 1 | Retrospective: Data is already available or collected at the time of the submission of the protocol | | | | | | | | | | | | |
| 2 | Prospective: Data will be collected after the submission of the protocol | | | | | | | | | | | | |
| Information from protocols – Study design and Analysis methods | | | | | | | | | | | | | |
| Summarise the primary research question(s) for the ITS analysis. | text | | | | | | | | | | | | |

| Question | Options | | | | | | |
|--|---|----|----------------------|---|--------------------|---|-----------------------|
| Examples <ul style="list-style-type: none"> • What are the effects of an antibiotic stewardship programme in a hospital aimed at reducing unnecessary antibiotic prescriptions, compared to no intervention? • What are the effects of a family planning intervention on pregnant women in intervention suburbs, compared to matched control suburbs? | | | | | | | |
| What were the eligibility criteria for participants/sites to be included in the ITS? Copy and paste from protocol or trial registry | text | | | | | | |
| Describe the data source(s) Examples: name of data source, how it was collected (e.g. EHR, survey, audit reports) and any other important info | text | | | | | | |
| Is the intervention implemented at a specific time or over a period of time? | checkbox <table border="1" data-bbox="1167 738 1493 890"> <tr> <td>99</td> <td>Cannot be determined</td> </tr> <tr> <td>1</td> <td>At a specific time</td> </tr> <tr> <td>2</td> <td>Over a period of time</td> </tr> </table> | 99 | Cannot be determined | 1 | At a specific time | 2 | Over a period of time |
| 99 | Cannot be determined | | | | | | |
| 1 | At a specific time | | | | | | |
| 2 | Over a period of time | | | | | | |
| Outline and describe all the segments in the time series Use S1, S2, S3, etc. to label the segments. For each segment, state their start / end time and number of data points. If there are multiple time series with unclear/overlapping time points (such as multiple sites with staggered rollout), describe one representative time series and add a note to highlight that there are other similar time series for multiple sites. Example: S1: Dec 2010-May 2011 (6 dp) S2: Jun 2011-May 2012 (12 dp) S3: Jun 2012-Dec 2012 (6 dp) | text | | | | | | |

| Question | Options | | | | | | | | | | |
|--|--|----|----------------------|---|-------------------------------------|---|------------------------|---|-----------------------------------|---|---|
| What is the number of segments? Inclusive of intervention segment (S2) even when there is no data point for that segment | numeric | | | | | | | | | | |
| Can the number of data point per segment be determined? | multiple-choice <table border="1" data-bbox="1170 414 1641 565"> <tr> <td>0</td> <td>No</td> </tr> <tr> <td>1</td> <td>Yes - for some segments but not all</td> </tr> <tr> <td>2</td> <td>Yes - for all segments</td> </tr> </table> | 0 | No | 1 | Yes - for some segments but not all | 2 | Yes - for all segments | | | | |
| 0 | No | | | | | | | | | | |
| 1 | Yes - for some segments but not all | | | | | | | | | | |
| 2 | Yes - for all segments | | | | | | | | | | |
| Can the start/end dates of each segment be determined? | multiple-choice <table border="1" data-bbox="1170 620 1641 771"> <tr> <td>0</td> <td>No</td> </tr> <tr> <td>1</td> <td>Yes - for some segments but not all</td> </tr> <tr> <td>2</td> <td>Yes - for all segments</td> </tr> </table> | 0 | No | 1 | Yes - for some segments but not all | 2 | Yes - for all segments | | | | |
| 0 | No | | | | | | | | | | |
| 1 | Yes - for some segments but not all | | | | | | | | | | |
| 2 | Yes - for all segments | | | | | | | | | | |
| What is the number of data points in the time series? Hierarchy: no. of data points based on the length of data collected > no. of data points used in sample size calculation. | text | | | | | | | | | | |
| Describe the impact model used to fit the time series Copy and paste all relevant descriptions of the model from the article (note page no.). You should also indicate any other important details that are not captured in the subsequent questions. | text | | | | | | | | | | |
| How is the intervention modelled? <ul style="list-style-type: none"> Not modelled at all: The data points associated with the intervention period are excluded from the analysis (no trend line). | multiple-choice <table border="1" data-bbox="1170 1097 1686 1343"> <tr> <td>99</td> <td>Cannot be determined</td> </tr> <tr> <td>0</td> <td>Not modelled at all</td> </tr> <tr> <td>1</td> <td>As a single time point</td> </tr> <tr> <td>2</td> <td>As a separate intervention period</td> </tr> <tr> <td>3</td> <td>As part of the post-intervention period</td> </tr> </table> | 99 | Cannot be determined | 0 | Not modelled at all | 1 | As a single time point | 2 | As a separate intervention period | 3 | As part of the post-intervention period |
| 99 | Cannot be determined | | | | | | | | | | |
| 0 | Not modelled at all | | | | | | | | | | |
| 1 | As a single time point | | | | | | | | | | |
| 2 | As a separate intervention period | | | | | | | | | | |
| 3 | As part of the post-intervention period | | | | | | | | | | |

| Question | Options | | | | | | |
|--|--|---|----|---|-------------------------------------|---|------------------------|
| <p>Outline and describe all the segments in the time series, as how they appear in the model Use S1, S2, S3, etc. to label the segments. For each segment, state their start / end time and number of data points.</p> <p>If there are multiple time series with unclear/overlapping time points (such as multiple sites with staggered rollout), describe one representative time series and add a note to highlight that there are other similar time series for multiple sites.</p> | text | | | | | | |
| <p>What is the number of segments model?</p> | numeric | | | | | | |
| <p>Can the number of data point per segment be determined from the model?</p> | multiple-choice <table border="1" data-bbox="1170 636 1641 794"> <tr> <td>0</td> <td>No</td> </tr> <tr> <td>1</td> <td>Yes - for some segments but not all</td> </tr> <tr> <td>2</td> <td>Yes - for all segments</td> </tr> </table> | 0 | No | 1 | Yes - for some segments but not all | 2 | Yes - for all segments |
| 0 | No | | | | | | |
| 1 | Yes - for some segments but not all | | | | | | |
| 2 | Yes - for all segments | | | | | | |
| <p>Can the start/end dates of each segment be determined from the model?</p> | multiple-choice <table border="1" data-bbox="1170 843 1641 1000"> <tr> <td>0</td> <td>No</td> </tr> <tr> <td>1</td> <td>Yes - for some segments but not all</td> </tr> <tr> <td>2</td> <td>Yes - for all segments</td> </tr> </table> | 0 | No | 1 | Yes - for some segments but not all | 2 | Yes - for all segments |
| 0 | No | | | | | | |
| 1 | Yes - for some segments but not all | | | | | | |
| 2 | Yes - for all segments | | | | | | |
| <p>Which segments in the model will be compared to address the primary research question (PRQ)?</p> <p>Examples:</p> <ul style="list-style-type: none"> • The PRQ is comparing post- vs pre-interruption segments of the intervention series only → S3 vs S2; S2 vs S1 • The PRQ is comparing the (implementation + post-implementation segments) vs pre-interruption segments of the intervention series only → (S2+S3) vs S1 • The PRQ is comparing pre- vs post-interruption change btw intervention and control series → (S3 vs S1, intervention) vs (S3 vs S1, control) | text | | | | | | |

| Question | Options | | | | | | | | | | | | | | | | | | | | | | | | |
|--|--|----|----------------------|---|--------------|---|--------------|-----|-------------------|---|--------|---|------------|---|---------|---|-----------|---|----------------|---|----------|----|------------------------------|-----|-------------------|
| Did the authors provide the mathematical equation representing the model? | multiple-choice <table border="1" data-bbox="1176 298 1282 403"> <tr> <td>1</td> <td>Yes</td> </tr> <tr> <td>0</td> <td>No</td> </tr> </table> | 1 | Yes | 0 | No | | | | | | | | | | | | | | | | | | | | |
| 1 | Yes | | | | | | | | | | | | | | | | | | | | | | | | |
| 0 | No | | | | | | | | | | | | | | | | | | | | | | | | |
| Which effect estimate will be calculated and reported? | checkbox <table border="1" data-bbox="1176 450 1507 652"> <tr> <td>99</td> <td>Cannot be determined</td> </tr> <tr> <td>1</td> <td>Level change</td> </tr> <tr> <td>2</td> <td>Slope change</td> </tr> <tr> <td>999</td> <td>Other [elaborate]</td> </tr> </table> | 99 | Cannot be determined | 1 | Level change | 2 | Slope change | 999 | Other [elaborate] | | | | | | | | | | | | | | | | |
| 99 | Cannot be determined | | | | | | | | | | | | | | | | | | | | | | | | |
| 1 | Level change | | | | | | | | | | | | | | | | | | | | | | | | |
| 2 | Slope change | | | | | | | | | | | | | | | | | | | | | | | | |
| 999 | Other [elaborate] | | | | | | | | | | | | | | | | | | | | | | | | |
| What is the time interval(s) that outcomes will be aggregated at in the time series? | checkbox <table border="1" data-bbox="1176 708 1574 1291"> <tr> <td>99</td> <td>Cannot be determined</td> </tr> <tr> <td>1</td> <td>Every minute</td> </tr> <tr> <td>2</td> <td>Hourly</td> </tr> <tr> <td>3</td> <td>Daily</td> </tr> <tr> <td>4</td> <td>Weekly</td> </tr> <tr> <td>5</td> <td>Two-weekly</td> </tr> <tr> <td>6</td> <td>Monthly</td> </tr> <tr> <td>7</td> <td>Quarterly</td> </tr> <tr> <td>8</td> <td>Every 6 months</td> </tr> <tr> <td>9</td> <td>Annually</td> </tr> <tr> <td>10</td> <td>Two periods (pre- and post-)</td> </tr> <tr> <td>999</td> <td>Other [elaborate]</td> </tr> </table> | 99 | Cannot be determined | 1 | Every minute | 2 | Hourly | 3 | Daily | 4 | Weekly | 5 | Two-weekly | 6 | Monthly | 7 | Quarterly | 8 | Every 6 months | 9 | Annually | 10 | Two periods (pre- and post-) | 999 | Other [elaborate] |
| 99 | Cannot be determined | | | | | | | | | | | | | | | | | | | | | | | | |
| 1 | Every minute | | | | | | | | | | | | | | | | | | | | | | | | |
| 2 | Hourly | | | | | | | | | | | | | | | | | | | | | | | | |
| 3 | Daily | | | | | | | | | | | | | | | | | | | | | | | | |
| 4 | Weekly | | | | | | | | | | | | | | | | | | | | | | | | |
| 5 | Two-weekly | | | | | | | | | | | | | | | | | | | | | | | | |
| 6 | Monthly | | | | | | | | | | | | | | | | | | | | | | | | |
| 7 | Quarterly | | | | | | | | | | | | | | | | | | | | | | | | |
| 8 | Every 6 months | | | | | | | | | | | | | | | | | | | | | | | | |
| 9 | Annually | | | | | | | | | | | | | | | | | | | | | | | | |
| 10 | Two periods (pre- and post-) | | | | | | | | | | | | | | | | | | | | | | | | |
| 999 | Other [elaborate] | | | | | | | | | | | | | | | | | | | | | | | | |
| Describe the statistical methods used to analyse the ITS | text | | | | | | | | | | | | | | | | | | | | | | | | |

| Question | Options | | | | | | | | | | | | | | | | | | | | | | | | |
|---|---|----|--|---|--|---|-------------------|---|---------------------|---|---------------------|---|--------------------|---|------|---|-----|---|------------------------------|---|-------------------|----|------------------------------------|-----|-------------------|
| Copy and paste all relevant descriptions of the statistical methods from the article (note page no.). You should also add any important details that are not captured in the subsequent questions. | | | | | | | | | | | | | | | | | | | | | | | | | |
| Which statistical method(s) will be used to estimate the difference between pre- and post-interruption segments? <p>Some options (e.g. linear/logistic regression) may encompass both ITS and non-ITS methods. The latter is applicable when there is regression without a continuous time variable, only a binary indicator variable for pre-post periods.</p> | checkbox <table border="1"> <tr> <td>99</td> <td>Cannot be determined</td> </tr> <tr> <td>1</td> <td>Autoregressive integrated moving average (ARIMA)</td> </tr> <tr> <td>2</td> <td>Linear regression</td> </tr> <tr> <td>3</td> <td>Logistic regression</td> </tr> <tr> <td>4</td> <td>Binomial regression</td> </tr> <tr> <td>5</td> <td>Poisson regression</td> </tr> <tr> <td>6</td> <td>GLMM</td> </tr> <tr> <td>7</td> <td>GEE</td> </tr> <tr> <td>8</td> <td>Negative binomial regression</td> </tr> <tr> <td>9</td> <td>GLM (unspecified)</td> </tr> <tr> <td>10</td> <td>Segmented regression (unspecified)</td> </tr> <tr> <td>999</td> <td>Other [elaborate]</td> </tr> </table> | 99 | Cannot be determined | 1 | Autoregressive integrated moving average (ARIMA) | 2 | Linear regression | 3 | Logistic regression | 4 | Binomial regression | 5 | Poisson regression | 6 | GLMM | 7 | GEE | 8 | Negative binomial regression | 9 | GLM (unspecified) | 10 | Segmented regression (unspecified) | 999 | Other [elaborate] |
| 99 | Cannot be determined | | | | | | | | | | | | | | | | | | | | | | | | |
| 1 | Autoregressive integrated moving average (ARIMA) | | | | | | | | | | | | | | | | | | | | | | | | |
| 2 | Linear regression | | | | | | | | | | | | | | | | | | | | | | | | |
| 3 | Logistic regression | | | | | | | | | | | | | | | | | | | | | | | | |
| 4 | Binomial regression | | | | | | | | | | | | | | | | | | | | | | | | |
| 5 | Poisson regression | | | | | | | | | | | | | | | | | | | | | | | | |
| 6 | GLMM | | | | | | | | | | | | | | | | | | | | | | | | |
| 7 | GEE | | | | | | | | | | | | | | | | | | | | | | | | |
| 8 | Negative binomial regression | | | | | | | | | | | | | | | | | | | | | | | | |
| 9 | GLM (unspecified) | | | | | | | | | | | | | | | | | | | | | | | | |
| 10 | Segmented regression (unspecified) | | | | | | | | | | | | | | | | | | | | | | | | |
| 999 | Other [elaborate] | | | | | | | | | | | | | | | | | | | | | | | | |
| Did the authors make any mention of autocorrelation? <p>Also known as "serial dependence", "serial correlation"</p> | multiple-choice <table border="1"> <tr> <td>1</td> <td>Yes</td> </tr> <tr> <td>0</td> <td>No</td> </tr> </table> | 1 | Yes | 0 | No | | | | | | | | | | | | | | | | | | | | |
| 1 | Yes | | | | | | | | | | | | | | | | | | | | | | | | |
| 0 | No | | | | | | | | | | | | | | | | | | | | | | | | |
| How will the authors decide whether to adjust for autocorrelation? <ul style="list-style-type: none"> Decide based on a visual or statistical test for presence of autocorrelation: authors decide whether to adjust for autocorrelation based on visual inspection of plots (e.g. ACF & PACF, histograms) or statistical tests (e.g. | checkbox <table border="1"> <tr> <td>99</td> <td>Cannot be determined - author did not describe any decision rule</td> </tr> </table> | 99 | Cannot be determined - author did not describe any decision rule | | | | | | | | | | | | | | | | | | | | | | |
| 99 | Cannot be determined - author did not describe any decision rule | | | | | | | | | | | | | | | | | | | | | | | | |

| Question | Options | | | | | | | | | | | | |
|--|---|----|--|---|---|---|--|---|---|-----|---|-----|-------------------|
| <p>Durbin-Watson, Cumby-Huizinga), and go with one model only, without fitting multiple models.</p> <ul style="list-style-type: none"> Run multiple models with different autocorrelation parameters and select based on model fit: e.g. the Box-Jenkins method of fitting ARIMA models. The final model may be selected based on improved fit (AIC), no residual autocorrelation (Ljung-Box) or any other criteria set by authors. Always adjust for autocorrelation: authors described a specific method of autocorrelation e.g. "We will use method xyz to adjust for autocorrelation" without any mention of a test or fitting multiple models Fit an ARIMA model (no further information): authors mentioned the use of "the ARIMA method", "the Box-Jenkins method" or "fitting an ARIMA model" without providing any information on how the parameters are selected and how the final models are selected. | <table border="1"> <tr> <td>1</td><td>Decide based on a visual or statistical test for presence of autocorrelation</td></tr> <tr> <td>2</td><td>Run multiple models with different autocorrelation parameters and select based on model fit</td></tr> <tr> <td>3</td><td>Always adjust for autocorrelation</td></tr> <tr> <td>4</td><td>Fit an ARIMA model (no further information)</td></tr> <tr> <td>999</td><td>Other [elaborate]</td></tr> </table> | 1 | Decide based on a visual or statistical test for presence of autocorrelation | 2 | Run multiple models with different autocorrelation parameters and select based on model fit | 3 | Always adjust for autocorrelation | 4 | Fit an ARIMA model (no further information) | 999 | Other [elaborate] | | |
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| 999 | Other [elaborate] | | | | | | | | | | | | |
| <p>How will the presence of autocorrelation be tested? These tests can be conducted either before or after model identification and selecting.</p> | <p>checkbox</p> <table border="1"> <tr> <td>99</td><td>Cannot be determined - authors did not describe clearly a method to detect presence of autocorrelation</td></tr> <tr> <td>1</td><td>Statistical test (e.g. Durbin-Watson, Breusch-Godfrey, Ljung-Box, Cumby-Huizinga tests)</td></tr> <tr> <td>2</td><td>Visual inspection of time series (autocorrelation and partial autocorrelation function plots, histogram)</td></tr> <tr> <td>3</td><td>Statistically significant parameters</td></tr> <tr> <td>4</td><td>Improved model fit after autocorrelation was accounted for (AIC, likelihood test)</td></tr> <tr> <td>999</td><td>Other [elaborate]</td></tr> </table> | 99 | Cannot be determined - authors did not describe clearly a method to detect presence of autocorrelation | 1 | Statistical test (e.g. Durbin-Watson, Breusch-Godfrey, Ljung-Box, Cumby-Huizinga tests) | 2 | Visual inspection of time series (autocorrelation and partial autocorrelation function plots, histogram) | 3 | Statistically significant parameters | 4 | Improved model fit after autocorrelation was accounted for (AIC, likelihood test) | 999 | Other [elaborate] |
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| 999 | Other [elaborate] | | | | | | | | | | | | |
| <p>How will autocorrelation be adjusted? Option "Not applicable" only applies when autocorrelation will not be investigated at all. It does not apply when the authors have conducted diagnostic model fit and concluded that autocorrelation was not present.</p> | <p>checkbox</p> <table border="1"> <tr> <td>99</td><td>Cannot be determined - author did not describe clearly a method to adjust for autocorrelation</td></tr> </table> | 99 | Cannot be determined - author did not describe clearly a method to adjust for autocorrelation | | | | | | | | | | |
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| Question | Options | | | | | | | | | | | | | | |
|---|--|----|---|---|---|---|---|-----|---|---|--|---|--|---|---|
| | <table border="1" data-bbox="1174 266 1814 592"> <tr> <td data-bbox="1174 266 1253 377">0</td><td data-bbox="1253 266 1814 377">Not applicable - author confirmed autocorrelation will not be investigated and adjusted</td></tr> <tr> <td data-bbox="1174 377 1253 489">1</td><td data-bbox="1253 377 1814 489">Use non-ARIMA methods to adjust (e.g. Newey-West, Prais-Winsten, GLS, REML) or model (adding lag terms) autocorrelation</td></tr> <tr> <td data-bbox="1174 489 1253 536">2</td><td data-bbox="1253 489 1814 536">Directly model the error structure using ARIMA</td></tr> <tr> <td data-bbox="1174 536 1253 592">999</td><td data-bbox="1253 536 1814 592">Other [elaborate]</td></tr> </table> | 0 | Not applicable - author confirmed autocorrelation will not be investigated and adjusted | 1 | Use non-ARIMA methods to adjust (e.g. Newey-West, Prais-Winsten, GLS, REML) or model (adding lag terms) autocorrelation | 2 | Directly model the error structure using ARIMA | 999 | Other [elaborate] | | | | | | |
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| 2 | Directly model the error structure using ARIMA | | | | | | | | | | | | | | |
| 999 | Other [elaborate] | | | | | | | | | | | | | | |
| <p>Did the authors make any mention of seasonality? Also known as "seasonal variation", "seasonal cycles", "periodic fluctuations" or phrases to that effect.</p> | <p>multiple-choice</p> <table border="1" data-bbox="1174 647 1286 751"> <tr> <td data-bbox="1174 647 1253 695">1</td><td data-bbox="1253 647 1286 695">Yes</td></tr> <tr> <td data-bbox="1174 695 1253 751">0</td><td data-bbox="1253 695 1286 751">No</td></tr> </table> | 1 | Yes | 0 | No | | | | | | | | | | |
| 1 | Yes | | | | | | | | | | | | | | |
| 0 | No | | | | | | | | | | | | | | |
| <p>How will seasonality be tested and/or adjusted? Option "Not applicable" only applies when seasonality will not be investigated at all. It does not apply when the authors have conducted investigations and concluded that seasonality was not present.</p> | <p>checkbox</p> <table border="1" data-bbox="1174 806 1814 1335"> <tr> <td data-bbox="1174 806 1253 886">99</td><td data-bbox="1253 806 1814 886">Cannot be determined - author did not describe clearly a method of dealing with seasonality</td></tr> <tr> <td data-bbox="1174 886 1253 965">0</td><td data-bbox="1253 886 1814 965">Not applicable - author specified seasonality will not be investigated and adjusted</td></tr> <tr> <td data-bbox="1174 965 1253 1044">1</td><td data-bbox="1253 965 1814 1044">Determine whether seasonality is present, either visually or via a statistical test</td></tr> <tr> <td data-bbox="1174 1044 1253 1124">2</td><td data-bbox="1253 1044 1814 1124">Adjust by adding a regression term for time (e.g. months, seasons) into model</td></tr> <tr> <td data-bbox="1174 1124 1253 1203">3</td><td data-bbox="1253 1124 1814 1203">Adjust by fitting Fourier terms into model</td></tr> <tr> <td data-bbox="1174 1203 1253 1283">4</td><td data-bbox="1253 1203 1814 1283">Adjust by fitting a spline function of time into model</td></tr> <tr> <td data-bbox="1174 1283 1253 1335">5</td><td data-bbox="1253 1283 1814 1335">Adjust by modelling under ARIMA (e.g. SARIMA model)</td></tr> </table> | 99 | Cannot be determined - author did not describe clearly a method of dealing with seasonality | 0 | Not applicable - author specified seasonality will not be investigated and adjusted | 1 | Determine whether seasonality is present, either visually or via a statistical test | 2 | Adjust by adding a regression term for time (e.g. months, seasons) into model | 3 | Adjust by fitting Fourier terms into model | 4 | Adjust by fitting a spline function of time into model | 5 | Adjust by modelling under ARIMA (e.g. SARIMA model) |
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| Question | Options | | | | | | | | | | | | |
|--|---|----|---|-----|---|---|---|---|---|---|--|-----|-------------------|
| | <table border="1" data-bbox="1174 258 1814 390"> <tr> <td data-bbox="1174 258 1253 346">6</td><td data-bbox="1253 258 1814 346">Compare to a control that is not affected by seasonality</td></tr> <tr> <td data-bbox="1174 346 1253 390">999</td><td data-bbox="1253 346 1814 390">Other [elaborate]</td></tr> </table> | 6 | Compare to a control that is not affected by seasonality | 999 | Other [elaborate] | | | | | | | | |
| 6 | Compare to a control that is not affected by seasonality | | | | | | | | | | | | |
| 999 | Other [elaborate] | | | | | | | | | | | | |
| Did the authors make any mention of non-stationarity? | multiple-choice <table border="1" data-bbox="1174 454 1282 549"> <tr> <td data-bbox="1174 454 1215 482">1</td><td data-bbox="1215 454 1282 482">Yes</td></tr> <tr> <td data-bbox="1174 504 1215 533">0</td><td data-bbox="1215 504 1282 533">No</td></tr> </table> | 1 | Yes | 0 | No | | | | | | | | |
| 1 | Yes | | | | | | | | | | | | |
| 0 | No | | | | | | | | | | | | |
| How will non-stationarity be detected and/or adjusted? Option "Not applicable" only applies when seasonality will not be investigated at all. It does not apply when the authors have conducted investigations and concluded that seasonality was not present. | checkbox <table border="1" data-bbox="1174 597 1814 1116"> <tr> <td data-bbox="1174 597 1253 684">99</td><td data-bbox="1253 597 1814 684">Cannot be determined - author did not describe clearly a method of dealing with nonstationarity</td></tr> <tr> <td data-bbox="1174 684 1253 787">0</td><td data-bbox="1253 684 1814 787">Not applicable - author specified nonstationarity will not be investigated and adjusted</td></tr> <tr> <td data-bbox="1174 794 1253 897">1</td><td data-bbox="1253 794 1814 897">Determine whether nonstationarity is present, either visually or via a statistical test (e.g. Augmented Dickey-Fuller test)</td></tr> <tr> <td data-bbox="1174 903 1253 990">2</td><td data-bbox="1253 903 1814 990">Transform to stationary series by differencing using non-ARIMA method</td></tr> <tr> <td data-bbox="1174 997 1253 1084">3</td><td data-bbox="1253 997 1814 1084">Transform to stationary series by differencing under ARIMA model</td></tr> <tr> <td data-bbox="1174 1090 1253 1116">999</td><td data-bbox="1253 1090 1814 1116">Other [elaborate]</td></tr> </table> | 99 | Cannot be determined - author did not describe clearly a method of dealing with nonstationarity | 0 | Not applicable - author specified nonstationarity will not be investigated and adjusted | 1 | Determine whether nonstationarity is present, either visually or via a statistical test (e.g. Augmented Dickey-Fuller test) | 2 | Transform to stationary series by differencing using non-ARIMA method | 3 | Transform to stationary series by differencing under ARIMA model | 999 | Other [elaborate] |
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| 3 | Transform to stationary series by differencing under ARIMA model | | | | | | | | | | | | |
| 999 | Other [elaborate] | | | | | | | | | | | | |
| How will anomalous or outlying data points be handled? | checkbox <table border="1" data-bbox="1174 1164 1814 1327"> <tr> <td data-bbox="1174 1164 1253 1251">99</td><td data-bbox="1253 1164 1814 1251">Cannot be determined - author did not mention anomaly or outliers</td></tr> <tr> <td data-bbox="1174 1257 1253 1327">0</td><td data-bbox="1253 1257 1814 1327">Not applicable - author specified anomalous or outlying data points will not be accounted for</td></tr> </table> | 99 | Cannot be determined - author did not mention anomaly or outliers | 0 | Not applicable - author specified anomalous or outlying data points will not be accounted for | | | | | | | | |
| 99 | Cannot be determined - author did not mention anomaly or outliers | | | | | | | | | | | | |
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| Question | Options | | | | | | | | | | |
|--|--|----|---|---|--|---|---|---|---|-----|-------------------|
| | <table border="1"> <tr> <td data-bbox="1174 258 1242 338">1</td><td data-bbox="1242 258 1803 338">Determine using a threshold or decision rule specified by author</td></tr> <tr> <td data-bbox="1174 338 1242 385">2</td><td data-bbox="1242 338 1803 385">Exclude from analysis</td></tr> <tr> <td data-bbox="1174 385 1242 433">3</td><td data-bbox="1242 385 1803 433">Analyse separately from the main time series</td></tr> <tr> <td data-bbox="1174 433 1242 544">4</td><td data-bbox="1242 433 1803 544">Include in the main time series but acknowledge them as anomalous or outlying data points</td></tr> <tr> <td data-bbox="1174 544 1242 592">999</td><td data-bbox="1242 544 1803 592">Other [elaborate]</td></tr> </table> | 1 | Determine using a threshold or decision rule specified by author | 2 | Exclude from analysis | 3 | Analyse separately from the main time series | 4 | Include in the main time series but acknowledge them as anomalous or outlying data points | 999 | Other [elaborate] |
| 1 | Determine using a threshold or decision rule specified by author | | | | | | | | | | |
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| 4 | Include in the main time series but acknowledge them as anomalous or outlying data points | | | | | | | | | | |
| 999 | Other [elaborate] | | | | | | | | | | |
| Did the author specify whether there will be any subgroup analysis? | multiple-choice <table border="1"> <tr> <td data-bbox="1174 663 1242 743">99</td><td data-bbox="1242 663 1803 743">No - author did not mention or clarify whether there will be any subgroup analysis</td></tr> <tr> <td data-bbox="1174 743 1242 822">0</td><td data-bbox="1242 743 1803 822">Yes - author specified there will be NO subgroup analysis</td></tr> <tr> <td data-bbox="1174 822 1242 901">1</td><td data-bbox="1242 822 1803 901">Yes - author specified there will be subgroup analysis</td></tr> </table> | 99 | No - author did not mention or clarify whether there will be any subgroup analysis | 0 | Yes - author specified there will be NO subgroup analysis | 1 | Yes - author specified there will be subgroup analysis | | | | |
| 99 | No - author did not mention or clarify whether there will be any subgroup analysis | | | | | | | | | | |
| 0 | Yes - author specified there will be NO subgroup analysis | | | | | | | | | | |
| 1 | Yes - author specified there will be subgroup analysis | | | | | | | | | | |
| If so, summarise the basis of subgroup analyses Examples: by type of intervention; by population; by type of control | text | | | | | | | | | | |
| Did the author specify whether there will be any sensitivity analysis? | multiple-choice <table border="1"> <tr> <td data-bbox="1174 1044 1242 1124">99</td><td data-bbox="1242 1044 1803 1124">No - author did not mention or clarify whether there will be any sensitivity analysis</td></tr> <tr> <td data-bbox="1174 1124 1242 1203">0</td><td data-bbox="1242 1124 1803 1203">Yes - author specified there will be NO sensitivity analysis</td></tr> <tr> <td data-bbox="1174 1203 1242 1283">1</td><td data-bbox="1242 1203 1803 1283">Yes - author specified there will be sensitivity analysis</td></tr> </table> | 99 | No - author did not mention or clarify whether there will be any sensitivity analysis | 0 | Yes - author specified there will be NO sensitivity analysis | 1 | Yes - author specified there will be sensitivity analysis | | | | |
| 99 | No - author did not mention or clarify whether there will be any sensitivity analysis | | | | | | | | | | |
| 0 | Yes - author specified there will be NO sensitivity analysis | | | | | | | | | | |
| 1 | Yes - author specified there will be sensitivity analysis | | | | | | | | | | |
| If so, summarise the basis of sensitivity analyses | text | | | | | | | | | | |

| Question | Options | | | | | | | | | | |
|---|---|----|---|---|---|---|---|---|----------------------|-----|-------------------|
| <p>Did the author specify whether there will be a control series? Any of the following can be considered a control series:</p> <ul style="list-style-type: none"> • location-based e.g. a control site that does not receive intervention • characteristic-based e.g. a cohort of a different age, a cohort without mental illness (for an intervention targeting mental illnesses) • behaviour-based e.g. a cohort who does not smoke (for an intervention targeting smoking) • historical cohort e.g. a cohort from the same period 1 year before the intervention cohort • control outcome e.g. an outcome that is not affected by the intervention • control time period e.g. using the same cohort that receive an intervention targeting drink-driving, but measured at a time period where drink-driving is not likely (such as on weekdays) | <p>multiple-choice</p> <table border="1"> <tr> <td data-bbox="1167 301 1224 341">99</td><td data-bbox="1224 301 1808 341">No - author did not mention or clarify whether there will be a control series</td></tr> <tr> <td data-bbox="1167 381 1224 420">0</td><td data-bbox="1224 381 1808 420">Yes - author specified there will be NO control series</td></tr> <tr> <td data-bbox="1167 460 1224 500">1</td><td data-bbox="1224 460 1808 500">Yes - author specified there will be a control series</td></tr> </table> | 99 | No - author did not mention or clarify whether there will be a control series | 0 | Yes - author specified there will be NO control series | 1 | Yes - author specified there will be a control series | | | | |
| 99 | No - author did not mention or clarify whether there will be a control series | | | | | | | | | | |
| 0 | Yes - author specified there will be NO control series | | | | | | | | | | |
| 1 | Yes - author specified there will be a control series | | | | | | | | | | |
| <p>Briefly describe the control series Examples: type of control, how they are different from the intervention series</p> | text | | | | | | | | | | |
| <p>If so, what was the method used to compare between the intervention and control series?</p> | <p>checkbox</p> <table border="1"> <tr> <td data-bbox="1167 825 1224 865">99</td><td data-bbox="1224 825 1808 865">Cannot be determined</td></tr> <tr> <td data-bbox="1167 889 1224 928">0</td><td data-bbox="1224 889 1808 976">Presenting the numerical results for control series independently, without comparing to the intervention series</td></tr> <tr> <td data-bbox="1167 1000 1224 1040">1</td><td data-bbox="1224 1000 1808 1056">A single model that includes both the intervention and control series</td></tr> <tr> <td data-bbox="1167 1079 1224 1119">2</td><td data-bbox="1224 1079 1808 1119">Narrative comparison</td></tr> <tr> <td data-bbox="1167 1143 1224 1183">999</td><td data-bbox="1224 1143 1808 1183">Other [elaborate]</td></tr> </table> | 99 | Cannot be determined | 0 | Presenting the numerical results for control series independently, without comparing to the intervention series | 1 | A single model that includes both the intervention and control series | 2 | Narrative comparison | 999 | Other [elaborate] |
| 99 | Cannot be determined | | | | | | | | | | |
| 0 | Presenting the numerical results for control series independently, without comparing to the intervention series | | | | | | | | | | |
| 1 | A single model that includes both the intervention and control series | | | | | | | | | | |
| 2 | Narrative comparison | | | | | | | | | | |
| 999 | Other [elaborate] | | | | | | | | | | |
| <p>Information from the results reports – Basic information</p> | | | | | | | | | | | |
| <p>Title of results report</p> | text | | | | | | | | | | |
| <p>What is the name of the publishing journal?</p> | text | | | | | | | | | | |
| <p>What is the source of funding?</p> | checkbox | | | | | | | | | | |

| Question | Options | | | | | | | | | | | | |
|---|--|----|----------------------|---|------------|---|---|---|----------|-----|-------------------|---|---------------|
| In-kind materials are also considered funding, and should be described in subsequent questions about the role of the funder. | <table border="1"> <tr> <td data-bbox="1167 266 1246 308">99</td><td data-bbox="1246 266 1812 308">Cannot be determined</td></tr> <tr> <td data-bbox="1167 308 1246 349">0</td><td data-bbox="1246 308 1812 349">No funding</td></tr> <tr> <td data-bbox="1167 349 1246 390">1</td><td data-bbox="1246 349 1812 390">Non-industry (non-profit, academic, government)</td></tr> <tr> <td data-bbox="1167 390 1246 431">2</td><td data-bbox="1246 390 1812 431">Industry</td></tr> <tr> <td data-bbox="1167 431 1246 536">999</td><td data-bbox="1246 431 1812 536">Other [elaborate]</td></tr> </table> | 99 | Cannot be determined | 0 | No funding | 1 | Non-industry (non-profit, academic, government) | 2 | Industry | 999 | Other [elaborate] | | |
| 99 | Cannot be determined | | | | | | | | | | | | |
| 0 | No funding | | | | | | | | | | | | |
| 1 | Non-industry (non-profit, academic, government) | | | | | | | | | | | | |
| 2 | Industry | | | | | | | | | | | | |
| 999 | Other [elaborate] | | | | | | | | | | | | |
| Briefly describe the intervention(s) or exposure(s) that constitute the interruption points. | text | | | | | | | | | | | | |
| At which level did the interruption occur, or was delivered / implemented? <ul style="list-style-type: none"> Individual: The intervention is implemented in specific individuals without the intention to represent a geographical area. Unit-based or institutions: The intervention is implemented in one or more specific institutions, hospitals or departments within a hospital. Regional: The intervention is implemented in an entire district, state, province or region, or in a group of institutions purposely sampled to represent a region. National: The intervention is implemented in multiple districts/regions in a country, or the entire country, or in a group of institutions purposely sampled to represent a country. Multinational: The intervention is implemented in multiple countries. | multiple-choice <table border="1"> <tr> <td data-bbox="1167 716 1246 757">99</td><td data-bbox="1246 716 1812 757">Cannot be determined</td></tr> <tr> <td data-bbox="1167 757 1246 798">1</td><td data-bbox="1246 757 1812 798">Individual</td></tr> <tr> <td data-bbox="1167 798 1246 840">2</td><td data-bbox="1246 798 1812 840">Unit-based or institutional</td></tr> <tr> <td data-bbox="1167 840 1246 881">3</td><td data-bbox="1246 840 1812 881">Regional</td></tr> <tr> <td data-bbox="1167 881 1246 922">4</td><td data-bbox="1246 881 1812 922">National</td></tr> <tr> <td data-bbox="1167 922 1246 1011">5</td><td data-bbox="1246 922 1812 1011">Multinational</td></tr> </table> | 99 | Cannot be determined | 1 | Individual | 2 | Unit-based or institutional | 3 | Regional | 4 | National | 5 | Multinational |
| 99 | Cannot be determined | | | | | | | | | | | | |
| 1 | Individual | | | | | | | | | | | | |
| 2 | Unit-based or institutional | | | | | | | | | | | | |
| 3 | Regional | | | | | | | | | | | | |
| 4 | National | | | | | | | | | | | | |
| 5 | Multinational | | | | | | | | | | | | |
| At which level was the effect of the interruption measured in this study? <ul style="list-style-type: none"> Individual: The intervention is implemented in specific individuals without the intention to represent a geographical area. Unit-based or institutions: The intervention is implemented in one or more specific institutions, hospitals or departments within a hospital. Regional: The intervention is implemented in an entire district, state, province or region, or in a group of institutions purposely sampled to represent a region. | multiple-choice <table border="1"> <tr> <td data-bbox="1167 1121 1246 1162">99</td><td data-bbox="1246 1121 1812 1162">Cannot be determined</td></tr> <tr> <td data-bbox="1167 1162 1246 1203">1</td><td data-bbox="1246 1162 1812 1203">Individual</td></tr> <tr> <td data-bbox="1167 1203 1246 1244">2</td><td data-bbox="1246 1203 1812 1244">Unit-based or institutional</td></tr> <tr> <td data-bbox="1167 1244 1246 1286">3</td><td data-bbox="1246 1244 1812 1286">Regional</td></tr> <tr> <td data-bbox="1167 1286 1246 1327">4</td><td data-bbox="1246 1286 1812 1327">National</td></tr> </table> | 99 | Cannot be determined | 1 | Individual | 2 | Unit-based or institutional | 3 | Regional | 4 | National | | |
| 99 | Cannot be determined | | | | | | | | | | | | |
| 1 | Individual | | | | | | | | | | | | |
| 2 | Unit-based or institutional | | | | | | | | | | | | |
| 3 | Regional | | | | | | | | | | | | |
| 4 | National | | | | | | | | | | | | |

| Question | Options | | | | | | |
|--|--|----|----------------------|---|---------------|---|-------------|
| <ul style="list-style-type: none"> • National: The intervention is implemented in multiple districts/regions in a country, or the entire country, or in a group of institutions purposely sampled to represent a country. • Multinational: The intervention is implemented in multiple countries. | <input type="checkbox" value="5"/> Multinational | | | | | | |
| Is this an ITS study by design? The study needs to: (1) have the minimum of 3 data points for at least 2 segments; and (2) use a model that is consistent with ITS analysis methods (e.g. for a time series of monthly data, the model needs to have a continuous parameter that represents number of months before and after the interruption). | multiple-choice <table border="1" data-bbox="1179 452 1268 547"> <tr> <td>0</td> <td>No</td> </tr> <tr> <td>1</td> <td>Yes</td> </tr> </table> | 0 | No | 1 | Yes | | |
| 0 | No | | | | | | |
| 1 | Yes | | | | | | |
| Was the data collected retrospectively, prospectively, or both? <ul style="list-style-type: none"> • Retrospective: Data was already available or collected at the time of the submission of the protocol • Prospective: Data was collected after the submission of the protocol Use your best judgment based on: (1) the end date of the data collection period relative to the protocol's submission date, or if not available (2) the timing of the intervention, and (3) authors' words. | checkbox <table border="1" data-bbox="1179 635 1493 778"> <tr> <td>99</td> <td>Cannot be determined</td> </tr> <tr> <td>1</td> <td>Retrospective</td> </tr> <tr> <td>2</td> <td>Prospective</td> </tr> </table> | 99 | Cannot be determined | 1 | Retrospective | 2 | Prospective |
| 99 | Cannot be determined | | | | | | |
| 1 | Retrospective | | | | | | |
| 2 | Prospective | | | | | | |
| Information from the results reports – Study design and Analysis methods | | | | | | | |
| Summarise the primary research question(s) for the ITS analysis. Examples <ul style="list-style-type: none"> • What are the effects of an antibiotic stewardship programme in a hospital aimed at reducing unnecessary antibiotic prescriptions, compared to no intervention? • What are the effects of a family planning intervention on pregnant women in intervention suburbs, compared to matched control suburbs? | text | | | | | | |
| What were the eligibility criteria for participants/sites to be included in the ITS? | text | | | | | | |
| Describe the data source(s) Examples: name of data source, how it was collected (e.g. EHR, survey, audit reports) and any other important info | text | | | | | | |

| Question | Options | | | | | | |
|---|--|----|----------------------|---|-------------------------|---|------------------------|
| Was the intervention implemented at a specific time or over a period of time? | multiple-choice <table border="1" data-bbox="1170 298 1500 446"> <tr> <td>99</td><td>Cannot be determined</td></tr> <tr> <td>1</td><td>At a specific time</td></tr> <tr> <td>2</td><td>Over a period of time</td></tr> </table> | 99 | Cannot be determined | 1 | At a specific time | 2 | Over a period of time |
| 99 | Cannot be determined | | | | | | |
| 1 | At a specific time | | | | | | |
| 2 | Over a period of time | | | | | | |
| Outline and describe all the segments in the time series Use S1, S2, S3, etc. to label the segments. For each segment, state their start / end time and number of data points. If there are multiple time series with unclear/overlapping time points (such as multiple sites with staggered rollout), describe one representative time series and add a note to highlight that there are other similar time series for multiple sites. Example: S1: Dec 2010-May 2011 (6 dp) S2: Jun 2011-May 2012 (12 dp) S3: Jun 2012-Dec 2012 (6 dp) | text | | | | | | |
| What was number of segments? Inclusive of intervention segment (S2) even when S2 has no data point | text | | | | | | |
| Could the number of data point per segment be determined? | multiple-choice <table border="1" data-bbox="1170 1013 1522 1160"> <tr> <td>0</td><td>No</td></tr> <tr> <td>1</td><td>Yes - for some segments</td></tr> <tr> <td>2</td><td>Yes - for all segments</td></tr> </table> | 0 | No | 1 | Yes - for some segments | 2 | Yes - for all segments |
| 0 | No | | | | | | |
| 1 | Yes - for some segments | | | | | | |
| 2 | Yes - for all segments | | | | | | |
| Could the start/end dates of each segment be determined? | multiple-choice <table border="1" data-bbox="1170 1213 1522 1360"> <tr> <td>0</td><td>No</td></tr> <tr> <td>1</td><td>Yes - for some segments</td></tr> <tr> <td>2</td><td>Yes - for all segments</td></tr> </table> | 0 | No | 1 | Yes - for some segments | 2 | Yes - for all segments |
| 0 | No | | | | | | |
| 1 | Yes - for some segments | | | | | | |
| 2 | Yes - for all segments | | | | | | |

| Question | Options | | | | | | | | | | |
|---|--|----|----------------------|---|---------------------|---|------------------------|---|-----------------------------------|---|---|
| <p>What was the number of data points in the time series after aggregation? This refers to the time series where data has been aggregated. This can be calculated based on the date range of the time series and the time intervals for aggregation. Ignore sample size calculation. If there are multiple series (e.g. multiple sites, multiple models) and the no. of data points is known for all of them, calculate a mean. If the number of data points is missing for some, choose the longest series where the no. of data points can be determined.</p> | text | | | | | | | | | | |
| <p>Describe the impact model used to fit the time series Copy and paste all relevant descriptions of the model from the article (note page no.). You should also indicate any other important details that are not captured in the subsequent questions.</p> | text | | | | | | | | | | |
| <p>How was the intervention modelled?</p> <ul style="list-style-type: none"> Not modelled at all: the data points associated with the intervention period are excluded from the analysis (no trend line) | multiple-choice <div style="border: 1px solid black; padding: 5px; width: fit-content;"> <table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 20px; padding: 2px;">99</td> <td style="padding: 2px;">Cannot be determined</td> </tr> <tr> <td style="width: 20px; padding: 2px;">0</td> <td style="padding: 2px;">Not modelled at all</td> </tr> <tr> <td style="width: 20px; padding: 2px;">1</td> <td style="padding: 2px;">As a single time point</td> </tr> <tr> <td style="width: 20px; padding: 2px;">2</td> <td style="padding: 2px;">As a separate intervention period</td> </tr> <tr> <td style="width: 20px; padding: 2px;">3</td> <td style="padding: 2px;">As part of the post-intervention period</td> </tr> </table> </div> | 99 | Cannot be determined | 0 | Not modelled at all | 1 | As a single time point | 2 | As a separate intervention period | 3 | As part of the post-intervention period |
| 99 | Cannot be determined | | | | | | | | | | |
| 0 | Not modelled at all | | | | | | | | | | |
| 1 | As a single time point | | | | | | | | | | |
| 2 | As a separate intervention period | | | | | | | | | | |
| 3 | As part of the post-intervention period | | | | | | | | | | |
| <p>Outline and describe all the segments in the time series, as how they appear in the model Use S1, S2, S3, etc. to label the segments. For each segment, state their start / end time and number of data points. If there are multiple time series with unclear/overlapping time points (such as multiple sites with staggered rollout), describe one representative time series and add a note to highlight that there are other similar time series for multiple sites.</p> | text | | | | | | | | | | |

| Question | Options | | | | | | |
|--|---|---|-----|---|-------------------------|---|------------------------|
| <p>Example: S1: Dec 2010-May 2011 (6 dp) S2: Jun 2011-May 2012 (12 dp) S3: Jun 2012-Dec 2012 (6 dp)</p> | | | | | | | |
| <p>What was the number of segments model?</p> | text | | | | | | |
| <p>Could the number of data point per segment be determined from the model?</p> | multiple-choice <table border="1" data-bbox="1170 525 1522 668"> <tr> <td>0</td> <td>No</td> </tr> <tr> <td>1</td> <td>Yes - for some segments</td> </tr> <tr> <td>2</td> <td>Yes - for all segments</td> </tr> </table> | 0 | No | 1 | Yes - for some segments | 2 | Yes - for all segments |
| 0 | No | | | | | | |
| 1 | Yes - for some segments | | | | | | |
| 2 | Yes - for all segments | | | | | | |
| <p>Could the start/end dates of each segment be determined from the model?</p> | multiple-choice <table border="1" data-bbox="1170 727 1522 870"> <tr> <td>0</td> <td>No</td> </tr> <tr> <td>1</td> <td>Yes - for some segments</td> </tr> <tr> <td>2</td> <td>Yes - for all segments</td> </tr> </table> | 0 | No | 1 | Yes - for some segments | 2 | Yes - for all segments |
| 0 | No | | | | | | |
| 1 | Yes - for some segments | | | | | | |
| 2 | Yes - for all segments | | | | | | |
| <p>Which segments in the model were compared to address the primary research question (PRQ)? Examples: • The PRQ is comparing post- vs pre-interruption segments of the intervention series only → S3 vs S2; S2 vs S1 • The PRQ is comparing the (implementation + post-implementation segments) vs pre-interruption segments of the intervention series only → (S2+S3) vs S1 • The PRQ is comparing pre- vs post-interruption change btw intervention and control series → (S3 vs S1, intervention) vs (S3 vs S1, control)</p> | text | | | | | | |
| <p>Did the authors provide the mathematical equation representing the model?</p> | multiple-choice <table border="1" data-bbox="1170 1267 1275 1367"> <tr> <td>1</td> <td>Yes</td> </tr> <tr> <td>0</td> <td>No</td> </tr> </table> | 1 | Yes | 0 | No | | |
| 1 | Yes | | | | | | |
| 0 | No | | | | | | |

| Question | Options | | | | | | | | | | | | | | | | | | | | | | |
|---|---|----|----------------------|---|--------------|---|--------------|---|--|---|---|---|--|----|--------------------------------------|---|-----------|---|----------------|---|----------|----|------------------------------|
| Which effect estimate was calculated and reported? | checkbox <table border="1" data-bbox="1174 298 1814 743"> <tr> <td>0</td><td>No result</td></tr> <tr> <td>1</td><td>Level change</td></tr> <tr> <td>2</td><td>Slope change</td></tr> <tr> <td>3</td><td>Other known effect estimate from ITS analysis [elaborate]</td></tr> <tr> <td>4</td><td>Other unidentifiable effect estimate from ITS analysis [elaborate]</td></tr> <tr> <td>5</td><td>Other effect estimate from non-ITS analysis [elaborate]</td></tr> <tr> <td>99</td><td>Unclear what the effect estimate was</td></tr> </table> | 0 | No result | 1 | Level change | 2 | Slope change | 3 | Other known effect estimate from ITS analysis [elaborate] | 4 | Other unidentifiable effect estimate from ITS analysis [elaborate] | 5 | Other effect estimate from non-ITS analysis [elaborate] | 99 | Unclear what the effect estimate was | | | | | | | | |
| 0 | No result | | | | | | | | | | | | | | | | | | | | | | |
| 1 | Level change | | | | | | | | | | | | | | | | | | | | | | |
| 2 | Slope change | | | | | | | | | | | | | | | | | | | | | | |
| 3 | Other known effect estimate from ITS analysis [elaborate] | | | | | | | | | | | | | | | | | | | | | | |
| 4 | Other unidentifiable effect estimate from ITS analysis [elaborate] | | | | | | | | | | | | | | | | | | | | | | |
| 5 | Other effect estimate from non-ITS analysis [elaborate] | | | | | | | | | | | | | | | | | | | | | | |
| 99 | Unclear what the effect estimate was | | | | | | | | | | | | | | | | | | | | | | |
| What was the time interval(s) that outcomes were aggregated at in the time series? | checkbox <table border="1" data-bbox="1174 790 1590 1333"> <tr> <td>99</td><td>Cannot be determined</td></tr> <tr> <td>1</td><td>Every minute</td></tr> <tr> <td>2</td><td>Hourly</td></tr> <tr> <td>3</td><td>Daily</td></tr> <tr> <td>4</td><td>Weekly</td></tr> <tr> <td>5</td><td>Two-weekly</td></tr> <tr> <td>6</td><td>Monthly</td></tr> <tr> <td>7</td><td>Quarterly</td></tr> <tr> <td>8</td><td>Every 6 months</td></tr> <tr> <td>9</td><td>Annually</td></tr> <tr> <td>10</td><td>Two periods (pre- and post-)</td></tr> </table> | 99 | Cannot be determined | 1 | Every minute | 2 | Hourly | 3 | Daily | 4 | Weekly | 5 | Two-weekly | 6 | Monthly | 7 | Quarterly | 8 | Every 6 months | 9 | Annually | 10 | Two periods (pre- and post-) |
| 99 | Cannot be determined | | | | | | | | | | | | | | | | | | | | | | |
| 1 | Every minute | | | | | | | | | | | | | | | | | | | | | | |
| 2 | Hourly | | | | | | | | | | | | | | | | | | | | | | |
| 3 | Daily | | | | | | | | | | | | | | | | | | | | | | |
| 4 | Weekly | | | | | | | | | | | | | | | | | | | | | | |
| 5 | Two-weekly | | | | | | | | | | | | | | | | | | | | | | |
| 6 | Monthly | | | | | | | | | | | | | | | | | | | | | | |
| 7 | Quarterly | | | | | | | | | | | | | | | | | | | | | | |
| 8 | Every 6 months | | | | | | | | | | | | | | | | | | | | | | |
| 9 | Annually | | | | | | | | | | | | | | | | | | | | | | |
| 10 | Two periods (pre- and post-) | | | | | | | | | | | | | | | | | | | | | | |

| Question | Options | | | | | | | | | | | | | | | | | | | | | | | | |
|---|--|----|----------------------|---|--|---|-------------------|---|---------------------|---|---------------------|---|--------------------|---|------|---|-----|---|------------------------------|---|-------------------|----|------------------------------------|-----|-------------------|
| | 999 Other [elaborate] | | | | | | | | | | | | | | | | | | | | | | | | |
| Describe the statistical methods used to analyse the ITS Copy and paste all relevant descriptions of the statistical methods from the article (note page no.). You should also add any important details that are not captured in the subsequent questions. | text | | | | | | | | | | | | | | | | | | | | | | | | |
| What was the statistical method used to estimate the difference between the pre- and post-interruption segments? Some options (e.g. linear/logistic regression) may encompass both ITS and non-ITS methods. The latter is when there is regression without a continuous time variable, only a binary indicator variable for pre-post periods. | checkbox <table border="1" data-bbox="1174 509 1814 1144"> <tr> <td>99</td> <td>Cannot be determined</td> </tr> <tr> <td>1</td> <td>Autoregressive integrated moving average (ARIMA)</td> </tr> <tr> <td>2</td> <td>Linear regression</td> </tr> <tr> <td>3</td> <td>Logistic regression</td> </tr> <tr> <td>4</td> <td>Binomial regression</td> </tr> <tr> <td>5</td> <td>Poisson regression</td> </tr> <tr> <td>6</td> <td>GLMM</td> </tr> <tr> <td>7</td> <td>GEE</td> </tr> <tr> <td>8</td> <td>Negative binomial regression</td> </tr> <tr> <td>9</td> <td>GLM (unspecified)</td> </tr> <tr> <td>10</td> <td>Segmented regression (unspecified)</td> </tr> <tr> <td>999</td> <td>Other [elaborate]</td> </tr> </table> | 99 | Cannot be determined | 1 | Autoregressive integrated moving average (ARIMA) | 2 | Linear regression | 3 | Logistic regression | 4 | Binomial regression | 5 | Poisson regression | 6 | GLMM | 7 | GEE | 8 | Negative binomial regression | 9 | GLM (unspecified) | 10 | Segmented regression (unspecified) | 999 | Other [elaborate] |
| 99 | Cannot be determined | | | | | | | | | | | | | | | | | | | | | | | | |
| 1 | Autoregressive integrated moving average (ARIMA) | | | | | | | | | | | | | | | | | | | | | | | | |
| 2 | Linear regression | | | | | | | | | | | | | | | | | | | | | | | | |
| 3 | Logistic regression | | | | | | | | | | | | | | | | | | | | | | | | |
| 4 | Binomial regression | | | | | | | | | | | | | | | | | | | | | | | | |
| 5 | Poisson regression | | | | | | | | | | | | | | | | | | | | | | | | |
| 6 | GLMM | | | | | | | | | | | | | | | | | | | | | | | | |
| 7 | GEE | | | | | | | | | | | | | | | | | | | | | | | | |
| 8 | Negative binomial regression | | | | | | | | | | | | | | | | | | | | | | | | |
| 9 | GLM (unspecified) | | | | | | | | | | | | | | | | | | | | | | | | |
| 10 | Segmented regression (unspecified) | | | | | | | | | | | | | | | | | | | | | | | | |
| 999 | Other [elaborate] | | | | | | | | | | | | | | | | | | | | | | | | |
| Did the authors make any mention of autocorrelation? Also known as "serial dependence", "serial correlation" | multiple-choice <table border="1" data-bbox="1174 1194 1275 1298"> <tr> <td>1</td> <td>Yes</td> </tr> <tr> <td>0</td> <td>No</td> </tr> </table> | 1 | Yes | 0 | No | | | | | | | | | | | | | | | | | | | | |
| 1 | Yes | | | | | | | | | | | | | | | | | | | | | | | | |
| 0 | No | | | | | | | | | | | | | | | | | | | | | | | | |
| How did the authors decide whether to adjust for autocorrelation? | checkbox | | | | | | | | | | | | | | | | | | | | | | | | |

| Question | Options | | | | | | | | | | | | |
|---|---|----|--|---|---|---|--|---|--------------------------------------|---|---|-----|-------------------|
| <ul style="list-style-type: none"> Decided based on a visual or statistical test for presence of autocorrelation: authors decide whether to adjust for autocorrelation based on visual inspection of plots (e.g. ACF & PACF, histograms) or statistical tests (e.g. Durbin-Watson, Cumby-Huizinga), and go with one model only, without fitting multiple models. Ran multiple models with different autocorrelation parameters and select based on model fit: e.g. the Box-Jenkins method of fitting ARIMA models. The final model may be selected based on improved fit (AIC), no residual autocorrelation (Ljung-Box) or any other criteria set by authors. Always adjusted for autocorrelation: authors described a specific method of autocorrelation e.g. "We will use method xyz to adjust for autocorrelation" without any mention of a test or fitting multiple models Fit an ARIMA model (no further information): authors mentioned the use of "the ARIMA method", "the Box-Jenkins method" or "fitting an ARIMA model" without providing any information on how the parameters are selected and how the final models are selected. | <table border="1"> <tr> <td>99</td><td>Cannot be determined - author did not describe any decision rule</td></tr> <tr> <td>1</td><td>Decided based on a visual or statistical test for presence of autocorrelation</td></tr> <tr> <td>2</td><td>Ran multiple models with different autocorrelation parameters and selected based on model fit</td></tr> <tr> <td>3</td><td>Always adjusted for autocorrelation</td></tr> <tr> <td>4</td><td>Fit an ARIMA model (no further information)</td></tr> <tr> <td>999</td><td>Other [elaborate]</td></tr> </table> | 99 | Cannot be determined - author did not describe any decision rule | 1 | Decided based on a visual or statistical test for presence of autocorrelation | 2 | Ran multiple models with different autocorrelation parameters and selected based on model fit | 3 | Always adjusted for autocorrelation | 4 | Fit an ARIMA model (no further information) | 999 | Other [elaborate] |
| 99 | Cannot be determined - author did not describe any decision rule | | | | | | | | | | | | |
| 1 | Decided based on a visual or statistical test for presence of autocorrelation | | | | | | | | | | | | |
| 2 | Ran multiple models with different autocorrelation parameters and selected based on model fit | | | | | | | | | | | | |
| 3 | Always adjusted for autocorrelation | | | | | | | | | | | | |
| 4 | Fit an ARIMA model (no further information) | | | | | | | | | | | | |
| 999 | Other [elaborate] | | | | | | | | | | | | |
| <p>How was the presence of autocorrelation tested? These tests could be conducted either before or after model identification and selecting.</p> | <p>checkbox</p> <table border="1"> <tr> <td>99</td><td>Cannot be determined - authors did not describe clearly a method to detect presence of autocorrelation</td></tr> <tr> <td>1</td><td>Statistical test (e.g. Durbin-Watson, Breusch-Godfrey, Ljung-Box, Cumby-Huizinga tests)</td></tr> <tr> <td>2</td><td>Visual inspection of time series (autocorrelation and partial autocorrelation function plots, histogram)</td></tr> <tr> <td>3</td><td>Statistically significant parameters</td></tr> <tr> <td>4</td><td>Improved model fit after autocorrelation was accounted for (AIC, likelihood test)</td></tr> <tr> <td>999</td><td>Other [elaborate]</td></tr> </table> | 99 | Cannot be determined - authors did not describe clearly a method to detect presence of autocorrelation | 1 | Statistical test (e.g. Durbin-Watson, Breusch-Godfrey, Ljung-Box, Cumby-Huizinga tests) | 2 | Visual inspection of time series (autocorrelation and partial autocorrelation function plots, histogram) | 3 | Statistically significant parameters | 4 | Improved model fit after autocorrelation was accounted for (AIC, likelihood test) | 999 | Other [elaborate] |
| 99 | Cannot be determined - authors did not describe clearly a method to detect presence of autocorrelation | | | | | | | | | | | | |
| 1 | Statistical test (e.g. Durbin-Watson, Breusch-Godfrey, Ljung-Box, Cumby-Huizinga tests) | | | | | | | | | | | | |
| 2 | Visual inspection of time series (autocorrelation and partial autocorrelation function plots, histogram) | | | | | | | | | | | | |
| 3 | Statistically significant parameters | | | | | | | | | | | | |
| 4 | Improved model fit after autocorrelation was accounted for (AIC, likelihood test) | | | | | | | | | | | | |
| 999 | Other [elaborate] | | | | | | | | | | | | |
| <p>How was autocorrelation adjusted?</p> | <p>checkbox</p> | | | | | | | | | | | | |

| Question | Options | | | | | | | | | | | | |
|--|--|----|---|---|--|---|--|---|---|-----|--|---|--|
| | <table border="1"> <tr> <td data-bbox="1174 258 1237 338">99</td><td data-bbox="1237 258 1828 338">Cannot be determined - author did not describe clearly a method to adjust for autocorrelation</td></tr> <tr> <td data-bbox="1174 338 1237 417">0</td><td data-bbox="1237 338 1828 417">Not applicable - author confirmed autocorrelation was not adjusted</td></tr> <tr> <td data-bbox="1174 417 1237 536">1</td><td data-bbox="1237 417 1828 536">Used non-ARIMA methods to adjust (e.g. Newey-West, Prais-Winsten, GLS, REML) or model (adding lag terms) autocorrelation</td></tr> <tr> <td data-bbox="1174 536 1237 624">2</td><td data-bbox="1237 536 1828 624">Directly modelled the error structure using ARIMA</td></tr> <tr> <td data-bbox="1174 624 1237 671">999</td><td data-bbox="1237 624 1828 671">Other [elaborate]</td></tr> </table> | 99 | Cannot be determined - author did not describe clearly a method to adjust for autocorrelation | 0 | Not applicable - author confirmed autocorrelation was not adjusted | 1 | Used non-ARIMA methods to adjust (e.g. Newey-West, Prais-Winsten, GLS, REML) or model (adding lag terms) autocorrelation | 2 | Directly modelled the error structure using ARIMA | 999 | Other [elaborate] | | |
| 99 | Cannot be determined - author did not describe clearly a method to adjust for autocorrelation | | | | | | | | | | | | |
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| 1 | Used non-ARIMA methods to adjust (e.g. Newey-West, Prais-Winsten, GLS, REML) or model (adding lag terms) autocorrelation | | | | | | | | | | | | |
| 2 | Directly modelled the error structure using ARIMA | | | | | | | | | | | | |
| 999 | Other [elaborate] | | | | | | | | | | | | |
| <p>Did the authors make any mention of seasonality? Also known as "seasonal variation", "seasonal cycles", "periodic fluctuations" or phrases to that effect.</p> | <p>multiple-choice</p> <table border="1"> <tr> <td data-bbox="1174 719 1237 767">1</td><td data-bbox="1237 719 1828 767">Yes</td></tr> <tr> <td data-bbox="1174 767 1237 814">0</td><td data-bbox="1237 767 1828 814">No</td></tr> </table> | 1 | Yes | 0 | No | | | | | | | | |
| 1 | Yes | | | | | | | | | | | | |
| 0 | No | | | | | | | | | | | | |
| <p>How was seasonality tested and/or adjusted?</p> | <p>checkbox</p> <table border="1"> <tr> <td data-bbox="1174 878 1237 925">99</td><td data-bbox="1237 878 1828 925">Cannot be determined - author did not describe clearly a method of dealing with seasonality</td></tr> <tr> <td data-bbox="1174 925 1237 1005">0</td><td data-bbox="1237 925 1828 1005">Not applicable - author specified seasonality was not adjusted</td></tr> <tr> <td data-bbox="1174 1005 1237 1092">1</td><td data-bbox="1237 1005 1828 1092">Determined whether seasonality is present, either visually or via a statistical test</td></tr> <tr> <td data-bbox="1174 1092 1237 1179">2</td><td data-bbox="1237 1092 1828 1179">Adjusted by adding a regression term for time (e.g. months, seasons) into model</td></tr> <tr> <td data-bbox="1174 1179 1237 1227">3</td><td data-bbox="1237 1179 1828 1227">Adjusted by fitting Fourier terms into model</td></tr> <tr> <td data-bbox="1174 1227 1237 1319">4</td><td data-bbox="1237 1227 1828 1319">Adjusted by fitting a spline function of time into model</td></tr> </table> | 99 | Cannot be determined - author did not describe clearly a method of dealing with seasonality | 0 | Not applicable - author specified seasonality was not adjusted | 1 | Determined whether seasonality is present, either visually or via a statistical test | 2 | Adjusted by adding a regression term for time (e.g. months, seasons) into model | 3 | Adjusted by fitting Fourier terms into model | 4 | Adjusted by fitting a spline function of time into model |
| 99 | Cannot be determined - author did not describe clearly a method of dealing with seasonality | | | | | | | | | | | | |
| 0 | Not applicable - author specified seasonality was not adjusted | | | | | | | | | | | | |
| 1 | Determined whether seasonality is present, either visually or via a statistical test | | | | | | | | | | | | |
| 2 | Adjusted by adding a regression term for time (e.g. months, seasons) into model | | | | | | | | | | | | |
| 3 | Adjusted by fitting Fourier terms into model | | | | | | | | | | | | |
| 4 | Adjusted by fitting a spline function of time into model | | | | | | | | | | | | |

| Question | Options | |
|--|-----------------|---|
| | 5 | Adjusted by modelling under ARIMA (e.g. SARIMA model) |
| | 6 | Compared to a control that is not affected by seasonality |
| | 999 | Other [elaborate] |
| Did the authors make any mention of non-stationarity? | multiple-choice | |
| | 1 | Yes |
| | 0 | No |
| How was non-stationarity detected and/or adjusted? | checkbox | |
| | 99 | Cannot be determined - author did not describe clearly a method of dealing with non-stationarity |
| | 0 | Not applicable - author specified non-stationarity was not adjusted |
| | 1 | Determined whether non-stationarity is present, either visually or via a statistical test (e.g. Augmented Dickey-Fuller test) |
| | 2 | Transformed to stationary series by differencing using non-ARIMA method |
| | 3 | Transformed to stationary series by differencing under ARIMA model |
| | 999 | Other [elaborate] |
| How were anomalous or outlying data points handled? | checkbox | |
| | 99 | Cannot be determined - author did not mention anomaly or outliers |

| Question | Options | | | | | | | | | | | | |
|--|--|---|--|---|---|---|------------------------|---|---|---|--|-----|-------------------|
| | <table border="1"> <tr> <td data-bbox="1170 266 1237 346">0</td><td data-bbox="1237 266 1803 346">Not applicable - author confirmed anomalous or outlying data points were not accounted for</td></tr> <tr> <td data-bbox="1170 346 1237 425">1</td><td data-bbox="1237 346 1803 425">Determined using a threshold or decision rule specified by author</td></tr> <tr> <td data-bbox="1170 425 1237 504">2</td><td data-bbox="1237 425 1803 504">Excluded from analysis</td></tr> <tr> <td data-bbox="1170 504 1237 584">3</td><td data-bbox="1237 504 1803 584">Analysed separately from the main time series</td></tr> <tr> <td data-bbox="1170 584 1237 663">4</td><td data-bbox="1237 584 1803 663">Included in the main time series but acknowledge them as anomalous or outlying data points</td></tr> <tr> <td data-bbox="1170 663 1237 695">999</td><td data-bbox="1237 663 1803 695">Other [elaborate]</td></tr> </table> | 0 | Not applicable - author confirmed anomalous or outlying data points were not accounted for | 1 | Determined using a threshold or decision rule specified by author | 2 | Excluded from analysis | 3 | Analysed separately from the main time series | 4 | Included in the main time series but acknowledge them as anomalous or outlying data points | 999 | Other [elaborate] |
| 0 | Not applicable - author confirmed anomalous or outlying data points were not accounted for | | | | | | | | | | | | |
| 1 | Determined using a threshold or decision rule specified by author | | | | | | | | | | | | |
| 2 | Excluded from analysis | | | | | | | | | | | | |
| 3 | Analysed separately from the main time series | | | | | | | | | | | | |
| 4 | Included in the main time series but acknowledge them as anomalous or outlying data points | | | | | | | | | | | | |
| 999 | Other [elaborate] | | | | | | | | | | | | |
| Was there any subgroup analysis? Examples: by type of intervention; by population; by type of control | multiple-choice <table border="1"> <tr> <td data-bbox="1170 759 1237 795">1</td><td data-bbox="1237 759 1304 795">Yes</td></tr> <tr> <td data-bbox="1170 795 1237 847">0</td><td data-bbox="1237 795 1304 847">No</td></tr> </table> | 1 | Yes | 0 | No | | | | | | | | |
| 1 | Yes | | | | | | | | | | | | |
| 0 | No | | | | | | | | | | | | |
| If so, summarise the basis of subgroup analyses Examples: by type of intervention; by population; by type of control | text | | | | | | | | | | | | |
| Was there any sensitivity analysis? Examples: excluding x; restricted to y | multiple-choice <table border="1"> <tr> <td data-bbox="1170 997 1237 1033">1</td><td data-bbox="1237 997 1304 1033">Yes</td></tr> <tr> <td data-bbox="1170 1033 1237 1086">0</td><td data-bbox="1237 1033 1304 1086">No</td></tr> </table> | 1 | Yes | 0 | No | | | | | | | | |
| 1 | Yes | | | | | | | | | | | | |
| 0 | No | | | | | | | | | | | | |
| If so, summarise the basis of sensitivity analyses Examples: excluding x; restricted to y | text | | | | | | | | | | | | |
| Was there a control series? Any of the following can be considered a control series: <ul style="list-style-type: none">• location-based e.g. a control site that does not receive intervention• characteristic-based e.g. a cohort of a different age, a cohort without mental illness (for an intervention targeting mental illnesses) | multiple-choice <table border="1"> <tr> <td data-bbox="1170 1235 1237 1271">1</td><td data-bbox="1237 1235 1304 1271">Yes</td></tr> <tr> <td data-bbox="1170 1271 1237 1324">0</td><td data-bbox="1237 1271 1304 1324">No</td></tr> </table> | 1 | Yes | 0 | No | | | | | | | | |
| 1 | Yes | | | | | | | | | | | | |
| 0 | No | | | | | | | | | | | | |

| Question | Options | | | | | | | | | | | | |
|--|---|----|--------------------------|---|---|---|---|---|----------------------------------|-----|--------------------------------|---|---------------------------------|
| <ul style="list-style-type: none"> • behaviour-based e.g. a cohort who does not smoke (for an intervention targeting smoking) • historical cohort e.g. a cohort from the same period 1 year before the intervention cohort • control outcome e.g. an outcome that is not affected by the intervention • control time period e.g. using the same cohort that receive an intervention targeting drink-driving, but measured at a time period where drink-driving is not likely (such as on weekdays) | | | | | | | | | | | | | |
| Briefly describe the control series Examples: type of control, how they are different from the intervention series | text | | | | | | | | | | | | |
| If so, what was the method used to compare between the intervention and control series? | multiple-choice <table border="1" data-bbox="1163 652 1814 973"> <tr> <td>99</td><td>Cannot be determined</td></tr> <tr> <td>0</td><td>Presenting the control series independently, without comparing to the intervention series</td></tr> <tr> <td>1</td><td>A single model that includes both the intervention and control series</td></tr> <tr> <td>2</td><td>Narrative comparison</td></tr> <tr> <td>999</td><td>Other [elaborate]</td></tr> </table> | 99 | Cannot be determined | 0 | Presenting the control series independently, without comparing to the intervention series | 1 | A single model that includes both the intervention and control series | 2 | Narrative comparison | 999 | Other [elaborate] | | |
| 99 | Cannot be determined | | | | | | | | | | | | |
| 0 | Presenting the control series independently, without comparing to the intervention series | | | | | | | | | | | | |
| 1 | A single model that includes both the intervention and control series | | | | | | | | | | | | |
| 2 | Narrative comparison | | | | | | | | | | | | |
| 999 | Other [elaborate] | | | | | | | | | | | | |
| Assessment of discrepancies | | | | | | | | | | | | | |
| Was there any discrepancy in the primary research question? | multiple-choice <table border="1" data-bbox="1163 1060 1769 1365"> <tr> <td>1</td><td>Info missing in protocol</td></tr> <tr> <td>2</td><td>Info missing in result report</td></tr> <tr> <td>3</td><td>Info missing in both protocol & result report</td></tr> <tr> <td>4</td><td>Same level of details & matching</td></tr> <tr> <td>5</td><td>RR has more details & matching</td></tr> <tr> <td>6</td><td>RR has fewer details & matching</td></tr> </table> | 1 | Info missing in protocol | 2 | Info missing in result report | 3 | Info missing in both protocol & result report | 4 | Same level of details & matching | 5 | RR has more details & matching | 6 | RR has fewer details & matching |
| 1 | Info missing in protocol | | | | | | | | | | | | |
| 2 | Info missing in result report | | | | | | | | | | | | |
| 3 | Info missing in both protocol & result report | | | | | | | | | | | | |
| 4 | Same level of details & matching | | | | | | | | | | | | |
| 5 | RR has more details & matching | | | | | | | | | | | | |
| 6 | RR has fewer details & matching | | | | | | | | | | | | |

| Question | Options | | | | | | | | | | | | | | | | |
|--|---|---|--------------------------|----|-------------------------------|----|---|---|----------------------------------|---|--------------------------------|---|---------------------------------|---|--------------------|----|----------------------|
| | <table border="1" data-bbox="1174 258 1758 363"> <tr> <td data-bbox="1174 258 1230 298">7</td><td data-bbox="1230 258 1758 298">Mismatched details</td></tr> <tr> <td data-bbox="1174 298 1230 363">99</td><td data-bbox="1230 298 1758 363">Cannot be determined</td></tr> </table> | 7 | Mismatched details | 99 | Cannot be determined | | | | | | | | | | | | |
| 7 | Mismatched details | | | | | | | | | | | | | | | | |
| 99 | Cannot be determined | | | | | | | | | | | | | | | | |
| Was the discrepancy important? | multiple-choice <table border="1" data-bbox="1174 417 1500 565"> <tr> <td data-bbox="1174 417 1230 457">1</td><td data-bbox="1230 417 1500 457">Potentially important</td></tr> <tr> <td data-bbox="1174 457 1230 497">0</td><td data-bbox="1230 457 1500 497">Likely unimportant</td></tr> <tr> <td data-bbox="1174 497 1230 565">99</td><td data-bbox="1230 497 1500 565">Uncertain</td></tr> </table> | 1 | Potentially important | 0 | Likely unimportant | 99 | Uncertain | | | | | | | | | | |
| 1 | Potentially important | | | | | | | | | | | | | | | | |
| 0 | Likely unimportant | | | | | | | | | | | | | | | | |
| 99 | Uncertain | | | | | | | | | | | | | | | | |
| Explain why you think there is a discrepancy and whether this discrepancy is potentially important | text | | | | | | | | | | | | | | | | |
| Did the authors provide justification for the change/discrepancy? | multiple-choice <table border="1" data-bbox="1174 692 1534 847"> <tr> <td data-bbox="1174 692 1230 732">1</td><td data-bbox="1230 692 1534 732">Yes</td></tr> <tr> <td data-bbox="1174 732 1230 771">0</td><td data-bbox="1230 732 1534 771">No</td></tr> <tr> <td data-bbox="1174 771 1230 847">99</td><td data-bbox="1230 771 1534 847">Justification not needed</td></tr> </table> | 1 | Yes | 0 | No | 99 | Justification not needed | | | | | | | | | | |
| 1 | Yes | | | | | | | | | | | | | | | | |
| 0 | No | | | | | | | | | | | | | | | | |
| 99 | Justification not needed | | | | | | | | | | | | | | | | |
| What was the justification provided by authors? | text | | | | | | | | | | | | | | | | |
| Was there any discrepancy in the eligibility criteria for participants/sites to be included in the ITS? | multiple-choice <table border="1" data-bbox="1174 938 1758 1343"> <tr> <td data-bbox="1174 938 1230 978">1</td><td data-bbox="1230 938 1758 978">Info missing in protocol</td></tr> <tr> <td data-bbox="1174 978 1230 1017">2</td><td data-bbox="1230 978 1758 1017">Info missing in result report</td></tr> <tr> <td data-bbox="1174 1017 1230 1057">3</td><td data-bbox="1230 1017 1758 1057">Info missing in both protocol & result report</td></tr> <tr> <td data-bbox="1174 1057 1230 1097">4</td><td data-bbox="1230 1057 1758 1097">Same level of details & matching</td></tr> <tr> <td data-bbox="1174 1097 1230 1137">5</td><td data-bbox="1230 1097 1758 1137">RR has more details & matching</td></tr> <tr> <td data-bbox="1174 1137 1230 1176">6</td><td data-bbox="1230 1137 1758 1176">RR has fewer details & matching</td></tr> <tr> <td data-bbox="1174 1176 1230 1216">7</td><td data-bbox="1230 1176 1758 1216">Mismatched details</td></tr> <tr> <td data-bbox="1174 1216 1230 1343">99</td><td data-bbox="1230 1216 1758 1343">Cannot be determined</td></tr> </table> | 1 | Info missing in protocol | 2 | Info missing in result report | 3 | Info missing in both protocol & result report | 4 | Same level of details & matching | 5 | RR has more details & matching | 6 | RR has fewer details & matching | 7 | Mismatched details | 99 | Cannot be determined |
| 1 | Info missing in protocol | | | | | | | | | | | | | | | | |
| 2 | Info missing in result report | | | | | | | | | | | | | | | | |
| 3 | Info missing in both protocol & result report | | | | | | | | | | | | | | | | |
| 4 | Same level of details & matching | | | | | | | | | | | | | | | | |
| 5 | RR has more details & matching | | | | | | | | | | | | | | | | |
| 6 | RR has fewer details & matching | | | | | | | | | | | | | | | | |
| 7 | Mismatched details | | | | | | | | | | | | | | | | |
| 99 | Cannot be determined | | | | | | | | | | | | | | | | |

| Question | Options | | | | | | | | | | | | | | | | |
|---|---|---|--------------------------|---|-------------------------------|----|---|---|----------------------------------|---|--------------------------------|---|---------------------------------|---|--------------------|----|----------------------|
| Was the discrepancy important? | multiple-choice <table border="1" data-bbox="1170 298 1500 452"> <tr> <td>1</td> <td>Potentially important</td> </tr> <tr> <td>0</td> <td>Likely unimportant</td> </tr> <tr> <td>99</td> <td>Uncertain</td> </tr> </table> | 1 | Potentially important | 0 | Likely unimportant | 99 | Uncertain | | | | | | | | | | |
| 1 | Potentially important | | | | | | | | | | | | | | | | |
| 0 | Likely unimportant | | | | | | | | | | | | | | | | |
| 99 | Uncertain | | | | | | | | | | | | | | | | |
| Explain why you think there is a discrepancy and whether this discrepancy is potentially important | text | | | | | | | | | | | | | | | | |
| Did the authors provide justification for the change/discrepancy? | multiple-choice <table border="1" data-bbox="1170 573 1529 732"> <tr> <td>1</td> <td>Yes</td> </tr> <tr> <td>0</td> <td>No</td> </tr> <tr> <td>99</td> <td>Justification not needed</td> </tr> </table> | 1 | Yes | 0 | No | 99 | Justification not needed | | | | | | | | | | |
| 1 | Yes | | | | | | | | | | | | | | | | |
| 0 | No | | | | | | | | | | | | | | | | |
| 99 | Justification not needed | | | | | | | | | | | | | | | | |
| What was the justification provided by authors? | text | | | | | | | | | | | | | | | | |
| Was there any discrepancy in the data source? | multiple-choice <table border="1" data-bbox="1170 832 1754 1232"> <tr> <td>1</td> <td>Info missing in protocol</td> </tr> <tr> <td>2</td> <td>Info missing in result report</td> </tr> <tr> <td>3</td> <td>Info missing in both protocol & result report</td> </tr> <tr> <td>4</td> <td>Same level of details & matching</td> </tr> <tr> <td>5</td> <td>RR has more details & matching</td> </tr> <tr> <td>6</td> <td>RR has fewer details & matching</td> </tr> <tr> <td>7</td> <td>Mismatched details</td> </tr> <tr> <td>99</td> <td>Cannot be determined</td> </tr> </table> | 1 | Info missing in protocol | 2 | Info missing in result report | 3 | Info missing in both protocol & result report | 4 | Same level of details & matching | 5 | RR has more details & matching | 6 | RR has fewer details & matching | 7 | Mismatched details | 99 | Cannot be determined |
| 1 | Info missing in protocol | | | | | | | | | | | | | | | | |
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| 7 | Mismatched details | | | | | | | | | | | | | | | | |
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| 1 | Potentially important | | | | | | | | | | | | | | | | |

| Question | Options | | | | | | | | | | | | | | | | |
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| 99 | Justification not needed | | | | | | | | | | | | | | | | |
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| 0 | Likely unimportant | | | | | | | | | | | | | | | | |
| 99 | Uncertain | | | | | | | | | | | | | | | | |

| Question | Options | | | | | | | | | | | | | | | | |
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| Explain why you think there is a discrepancy and whether this discrepancy is potentially important | text | | | | | | | | | | | | | | | | |
| Did the authors provide justification for the change/discrepancy? | multiple-choice <table border="1" data-bbox="1170 382 1529 533"> <tr> <td>1</td><td>Yes</td></tr> <tr> <td>0</td><td>No</td></tr> <tr> <td>99</td><td>Justification not needed</td></tr> </table> | 1 | Yes | 0 | No | 99 | Justification not needed | | | | | | | | | | |
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| 1 | Potentially important | | | | | | | | | | | | | | | | |
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| Question | Options | | | | | | | | | | | | | | | | |
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| 0 | No | | | | | | | | | | | | | | | | |
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| Was there any discrepancy in the number of data points per segment in the time series? | multiple-choice <table border="1"> <tr> <td data-bbox="1174 509 1230 549">1</td><td data-bbox="1230 509 1529 549">Info missing in protocol</td></tr> <tr> <td data-bbox="1174 549 1230 589">2</td><td data-bbox="1230 549 1529 589">Info missing in result report</td></tr> <tr> <td data-bbox="1174 589 1230 644">3</td><td data-bbox="1230 589 1529 644">Info missing in both protocol & result report</td></tr> <tr> <td data-bbox="1174 644 1230 684">4</td><td data-bbox="1230 644 1529 684">Same level of details & matching</td></tr> <tr> <td data-bbox="1174 684 1230 724">5</td><td data-bbox="1230 684 1529 724">RR has more details & matching</td></tr> <tr> <td data-bbox="1174 724 1230 763">6</td><td data-bbox="1230 724 1529 763">RR has fewer details & matching</td></tr> <tr> <td data-bbox="1174 763 1230 803">7</td><td data-bbox="1230 763 1529 803">Mismatched details</td></tr> <tr> <td data-bbox="1174 803 1230 890">99</td><td data-bbox="1230 803 1529 890">Cannot be determined</td></tr> </table> | 1 | Info missing in protocol | 2 | Info missing in result report | 3 | Info missing in both protocol & result report | 4 | Same level of details & matching | 5 | RR has more details & matching | 6 | RR has fewer details & matching | 7 | Mismatched details | 99 | Cannot be determined |
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| Question | Options | | | | | | | | | | | | | | | | |
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| Did the authors provide justification for the change/discrepancy? | multiple-choice <table border="1" data-bbox="1174 1167 1522 1321"> <tr><td>1</td><td>Yes</td></tr> <tr><td>0</td><td>No</td></tr> <tr><td>99</td><td>Justification not needed</td></tr> </table> | 1 | Yes | 0 | No | 99 | Justification not needed | | | | | | | | | | |
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| Question | Options | | | | | | | | | | | | | | | | |
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| Was there any discrepancy in the start and end dates of the segments in the ITS model? | multiple-choice <table border="1" data-bbox="1174 298 1754 692"> <tr><td>1</td><td>Info missing in protocol</td></tr> <tr><td>2</td><td>Info missing in result report</td></tr> <tr><td>3</td><td>Info missing in both protocol & result report</td></tr> <tr><td>4</td><td>Same level of details & matching</td></tr> <tr><td>5</td><td>RR has more details & matching</td></tr> <tr><td>6</td><td>RR has fewer details & matching</td></tr> <tr><td>7</td><td>Mismatched details</td></tr> <tr><td>99</td><td>Cannot be determined</td></tr> </table> | 1 | Info missing in protocol | 2 | Info missing in result report | 3 | Info missing in both protocol & result report | 4 | Same level of details & matching | 5 | RR has more details & matching | 6 | RR has fewer details & matching | 7 | Mismatched details | 99 | Cannot be determined |
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| 1 | Yes | | | | | | | | | | | | | | | | |
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| 1 | Info missing in protocol | | | | | | | | | | | | | | | | |

| Question | Options | | | | | | | | | | | | | | |
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| 1 | Yes | | | | | | | | | | | | | | |
| 0 | No | | | | | | | | | | | | | | |
| 99 | Justification not needed | | | | | | | | | | | | | | |
| What was the justification provided by authors? | text | | | | | | | | | | | | | | |
| Was there any discrepancy in the segments that were compared to address the PRQ? | multiple-choice <table border="1"> <tr> <td data-bbox="1170 1230 1215 1262">1</td><td data-bbox="1215 1230 1747 1262">Info missing in protocol</td></tr> <tr> <td data-bbox="1170 1278 1215 1310">2</td><td data-bbox="1215 1278 1747 1310">Info missing in result report</td></tr> <tr> <td data-bbox="1170 1325 1215 1357">3</td><td data-bbox="1215 1325 1747 1357">Info missing in both protocol & result report</td></tr> </table> | 1 | Info missing in protocol | 2 | Info missing in result report | 3 | Info missing in both protocol & result report | | | | | | | | |
| 1 | Info missing in protocol | | | | | | | | | | | | | | |
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| Question | Options | | | | | | | | | | |
|---|---|---|----------------------------------|---|--------------------------------|----|---|---|----------------------------------|----|--------------------------------|
| | <table border="1"> <tr> <td data-bbox="1170 266 1215 298">4</td><td data-bbox="1215 266 1702 298">Same level of details & matching</td></tr> <tr> <td data-bbox="1170 314 1215 346">5</td><td data-bbox="1215 314 1702 346">RR has more details & matching</td></tr> <tr> <td data-bbox="1170 362 1215 393">6</td><td data-bbox="1215 362 1702 393">RR has fewer details & matching</td></tr> <tr> <td data-bbox="1170 409 1215 441">7</td><td data-bbox="1215 409 1702 441">Mismatched details</td></tr> <tr> <td data-bbox="1170 457 1215 489">99</td><td data-bbox="1215 457 1702 489">Cannot be determined</td></tr> </table> | 4 | Same level of details & matching | 5 | RR has more details & matching | 6 | RR has fewer details & matching | 7 | Mismatched details | 99 | Cannot be determined |
| 4 | Same level of details & matching | | | | | | | | | | |
| 5 | RR has more details & matching | | | | | | | | | | |
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| 7 | Mismatched details | | | | | | | | | | |
| 99 | Cannot be determined | | | | | | | | | | |
| Was the discrepancy important? | multiple-choice <table border="1"> <tr> <td data-bbox="1170 573 1215 605">1</td><td data-bbox="1215 573 1702 605">Potentially important</td></tr> <tr> <td data-bbox="1170 620 1215 652">0</td><td data-bbox="1215 620 1702 652">Likely unimportant</td></tr> <tr> <td data-bbox="1170 668 1215 700">99</td><td data-bbox="1215 668 1702 700">Uncertain</td></tr> </table> | 1 | Potentially important | 0 | Likely unimportant | 99 | Uncertain | | | | |
| 1 | Potentially important | | | | | | | | | | |
| 0 | Likely unimportant | | | | | | | | | | |
| 99 | Uncertain | | | | | | | | | | |
| Explain why you think there is a discrepancy and whether this discrepancy is potentially important | text | | | | | | | | | | |
| Did the authors provide justification for the change/discrepancy? | multiple-choice <table border="1"> <tr> <td data-bbox="1170 863 1215 895">1</td><td data-bbox="1215 863 1702 895">Yes</td></tr> <tr> <td data-bbox="1170 911 1215 943">0</td><td data-bbox="1215 911 1702 943">No</td></tr> <tr> <td data-bbox="1170 959 1215 990">99</td><td data-bbox="1215 959 1702 990">Justification not needed</td></tr> </table> | 1 | Yes | 0 | No | 99 | Justification not needed | | | | |
| 1 | Yes | | | | | | | | | | |
| 0 | No | | | | | | | | | | |
| 99 | Justification not needed | | | | | | | | | | |
| What was the justification provided by authors? | text | | | | | | | | | | |
| Was there any discrepancy in the type of effect measures reported? | multiple-choice <table border="1"> <tr> <td data-bbox="1170 1129 1215 1160">1</td><td data-bbox="1215 1129 1702 1160">Info missing in protocol</td></tr> <tr> <td data-bbox="1170 1176 1215 1208">2</td><td data-bbox="1215 1176 1702 1208">Info missing in result report</td></tr> <tr> <td data-bbox="1170 1224 1215 1256">3</td><td data-bbox="1215 1224 1702 1256">Info missing in both protocol & result report</td></tr> <tr> <td data-bbox="1170 1271 1215 1303">4</td><td data-bbox="1215 1271 1702 1303">Same level of details & matching</td></tr> <tr> <td data-bbox="1170 1319 1215 1351">5</td><td data-bbox="1215 1319 1702 1351">RR has more details & matching</td></tr> </table> | 1 | Info missing in protocol | 2 | Info missing in result report | 3 | Info missing in both protocol & result report | 4 | Same level of details & matching | 5 | RR has more details & matching |
| 1 | Info missing in protocol | | | | | | | | | | |
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| Question | Options | | | | | | | | | | | | | | |
|---|---|---|---------------------------------|---|-------------------------------|----|---|---|----------------------------------|---|--------------------------------|---|---------------------------------|---|--------------------|
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| 99 | Cannot be determined | | | | | | | | | | | | | | |
| Was the discrepancy important? | multiple-choice <table border="1"> <tr> <td data-bbox="1170 473 1215 504">1</td><td data-bbox="1215 473 1484 504">Potentially important</td></tr> <tr> <td data-bbox="1170 520 1215 552">0</td><td data-bbox="1215 520 1484 552">Likely unimportant</td></tr> <tr> <td data-bbox="1170 568 1215 600">99</td><td data-bbox="1215 568 1484 600">Uncertain</td></tr> </table> | 1 | Potentially important | 0 | Likely unimportant | 99 | Uncertain | | | | | | | | |
| 1 | Potentially important | | | | | | | | | | | | | | |
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| Explain why you think there is a discrepancy and whether this discrepancy is potentially important | text | | | | | | | | | | | | | | |
| Did the authors provide justification for the change/discrepancy? | multiple-choice <table border="1"> <tr> <td data-bbox="1170 771 1215 803">1</td><td data-bbox="1215 771 1484 803">Yes</td></tr> <tr> <td data-bbox="1170 819 1215 851">0</td><td data-bbox="1215 819 1484 851">No</td></tr> <tr> <td data-bbox="1170 867 1215 898">99</td><td data-bbox="1215 867 1484 898">Justification not needed</td></tr> </table> | 1 | Yes | 0 | No | 99 | Justification not needed | | | | | | | | |
| 1 | Yes | | | | | | | | | | | | | | |
| 0 | No | | | | | | | | | | | | | | |
| 99 | Justification not needed | | | | | | | | | | | | | | |
| What was the justification provided by authors? | text | | | | | | | | | | | | | | |
| Was there any discrepancy in the time interval of the aggregated data? | multiple-choice <table border="1"> <tr> <td data-bbox="1170 1041 1215 1073">1</td><td data-bbox="1215 1041 1709 1073">Info missing in protocol</td></tr> <tr> <td data-bbox="1170 1089 1215 1121">2</td><td data-bbox="1215 1089 1709 1121">Info missing in result report</td></tr> <tr> <td data-bbox="1170 1137 1215 1168">3</td><td data-bbox="1215 1137 1709 1168">Info missing in both protocol & result report</td></tr> <tr> <td data-bbox="1170 1184 1215 1216">4</td><td data-bbox="1215 1184 1709 1216">Same level of details & matching</td></tr> <tr> <td data-bbox="1170 1232 1215 1264">5</td><td data-bbox="1215 1232 1709 1264">RR has more details & matching</td></tr> <tr> <td data-bbox="1170 1279 1215 1311">6</td><td data-bbox="1215 1279 1709 1311">RR has fewer details & matching</td></tr> <tr> <td data-bbox="1170 1327 1215 1359">7</td><td data-bbox="1215 1327 1709 1359">Mismatched details</td></tr> </table> | 1 | Info missing in protocol | 2 | Info missing in result report | 3 | Info missing in both protocol & result report | 4 | Same level of details & matching | 5 | RR has more details & matching | 6 | RR has fewer details & matching | 7 | Mismatched details |
| 1 | Info missing in protocol | | | | | | | | | | | | | | |
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| Question | Options | | | | | | | | | | | | | | | | |
|---|---|---|--------------------------|---|-------------------------------|----|---|---|----------------------------------|---|--------------------------------|---|---------------------------------|---|--------------------|----|----------------------|
| | 99 Cannot be determined | | | | | | | | | | | | | | | | |
| Was the discrepancy important? | multiple-choice <table border="1" data-bbox="1170 366 1484 517"> <tr> <td data-bbox="1170 366 1215 406">1</td><td data-bbox="1215 366 1484 406">Potentially important</td></tr> <tr> <td data-bbox="1170 406 1215 446">0</td><td data-bbox="1215 406 1484 446">Likely unimportant</td></tr> <tr> <td data-bbox="1170 446 1215 517">99</td><td data-bbox="1215 446 1484 517">Uncertain</td></tr> </table> | 1 | Potentially important | 0 | Likely unimportant | 99 | Uncertain | | | | | | | | | | |
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| Did the authors provide justification for the change/discrepancy? | multiple-choice <table border="1" data-bbox="1170 665 1529 816"> <tr> <td data-bbox="1170 665 1215 705">1</td><td data-bbox="1215 665 1529 705">Yes</td></tr> <tr> <td data-bbox="1170 705 1215 744">0</td><td data-bbox="1215 705 1529 744">No</td></tr> <tr> <td data-bbox="1170 744 1215 816">99</td><td data-bbox="1215 744 1529 816">Justification not needed</td></tr> </table> | 1 | Yes | 0 | No | 99 | Justification not needed | | | | | | | | | | |
| 1 | Yes | | | | | | | | | | | | | | | | |
| 0 | No | | | | | | | | | | | | | | | | |
| 99 | Justification not needed | | | | | | | | | | | | | | | | |
| What was the justification provided by authors? | text | | | | | | | | | | | | | | | | |
| Was there any discrepancy in the statistical method(s) used to analyse the ITS data? | multiple-choice <table border="1" data-bbox="1170 935 1754 1324"> <tr> <td data-bbox="1170 935 1215 975">1</td><td data-bbox="1215 935 1754 975">Info missing in protocol</td></tr> <tr> <td data-bbox="1170 975 1215 1014">2</td><td data-bbox="1215 975 1754 1014">Info missing in result report</td></tr> <tr> <td data-bbox="1170 1014 1215 1054">3</td><td data-bbox="1215 1014 1754 1054">Info missing in both protocol & result report</td></tr> <tr> <td data-bbox="1170 1054 1215 1094">4</td><td data-bbox="1215 1054 1754 1094">Same level of details & matching</td></tr> <tr> <td data-bbox="1170 1094 1215 1133">5</td><td data-bbox="1215 1094 1754 1133">RR has more details & matching</td></tr> <tr> <td data-bbox="1170 1133 1215 1173">6</td><td data-bbox="1215 1133 1754 1173">RR has fewer details & matching</td></tr> <tr> <td data-bbox="1170 1173 1215 1213">7</td><td data-bbox="1215 1173 1754 1213">Mismatched details</td></tr> <tr> <td data-bbox="1170 1213 1215 1324">99</td><td data-bbox="1215 1213 1754 1324">Cannot be determined</td></tr> </table> | 1 | Info missing in protocol | 2 | Info missing in result report | 3 | Info missing in both protocol & result report | 4 | Same level of details & matching | 5 | RR has more details & matching | 6 | RR has fewer details & matching | 7 | Mismatched details | 99 | Cannot be determined |
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| Question | Options | | | | | | | | | | | | | | | | |
|---|---|---|--------------------------|---|-------------------------------|----|---|---|----------------------------------|---|--------------------------------|---|---------------------------------|---|--------------------|----|----------------------|
| Was the discrepancy important? | multiple-choice <table border="1" data-bbox="1176 303 1484 452"> <tr> <td>1</td> <td>Potentially important</td> </tr> <tr> <td>0</td> <td>Likely unimportant</td> </tr> <tr> <td>99</td> <td>Uncertain</td> </tr> </table> | 1 | Potentially important | 0 | Likely unimportant | 99 | Uncertain | | | | | | | | | | |
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| Did the authors provide justification for the change/discrepancy? | multiple-choice <table border="1" data-bbox="1176 589 1522 747"> <tr> <td>1</td> <td>Yes</td> </tr> <tr> <td>0</td> <td>No</td> </tr> <tr> <td>99</td> <td>Justification not needed</td> </tr> </table> | 1 | Yes | 0 | No | 99 | Justification not needed | | | | | | | | | | |
| 1 | Yes | | | | | | | | | | | | | | | | |
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| 99 | Justification not needed | | | | | | | | | | | | | | | | |
| What was the justification provided by authors? | text | | | | | | | | | | | | | | | | |
| Was there any discrepancy in how authors make decision about whether to adjust for autocorrelation (AC)? | multiple-choice <table border="1" data-bbox="1176 847 1754 1251"> <tr> <td>1</td> <td>Info missing in protocol</td> </tr> <tr> <td>2</td> <td>Info missing in result report</td> </tr> <tr> <td>3</td> <td>Info missing in both protocol & result report</td> </tr> <tr> <td>4</td> <td>Same level of details & matching</td> </tr> <tr> <td>5</td> <td>RR has more details & matching</td> </tr> <tr> <td>6</td> <td>RR has fewer details & matching</td> </tr> <tr> <td>7</td> <td>Mismatched details</td> </tr> <tr> <td>99</td> <td>Cannot be determined</td> </tr> </table> | 1 | Info missing in protocol | 2 | Info missing in result report | 3 | Info missing in both protocol & result report | 4 | Same level of details & matching | 5 | RR has more details & matching | 6 | RR has fewer details & matching | 7 | Mismatched details | 99 | Cannot be determined |
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| 99 | Cannot be determined | | | | | | | | | | | | | | | | |
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| 1 | Potentially important | | | | | | | | | | | | | | | | |

| Question | Options | | | | | | | | | | | | | | | | | | |
|---|---|---|-----------------------|----|--------------------------|----|-------------------------------|---|---|---|----------------------------------|---|--------------------------------|---|---------------------------------|---|--------------------|----|----------------------|
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| Did the authors provide justification for the change/discrepancy? | multiple-choice <table border="1" data-bbox="1170 509 1529 660"> <tr> <td data-bbox="1170 509 1230 549">1</td><td data-bbox="1230 509 1529 549">Yes</td></tr> <tr> <td data-bbox="1170 549 1230 600">0</td><td data-bbox="1230 549 1529 600">No</td></tr> <tr> <td data-bbox="1170 600 1230 660">99</td><td data-bbox="1230 600 1529 660">Justification not needed</td></tr> </table> | 1 | Yes | 0 | No | 99 | Justification not needed | | | | | | | | | | | | |
| 1 | Yes | | | | | | | | | | | | | | | | | | |
| 0 | No | | | | | | | | | | | | | | | | | | |
| 99 | Justification not needed | | | | | | | | | | | | | | | | | | |
| What was the justification provided by authors? | text | | | | | | | | | | | | | | | | | | |
| Was there any discrepancy in the approach to test for autocorrelation (AC)? | multiple-choice <table border="1" data-bbox="1170 774 1754 1216"> <tr> <td data-bbox="1170 774 1230 814">0</td><td data-bbox="1230 774 1754 814">Not applicable</td></tr> <tr> <td data-bbox="1170 814 1230 849">1</td><td data-bbox="1230 814 1754 849">Info missing in protocol</td></tr> <tr> <td data-bbox="1170 849 1230 884">2</td><td data-bbox="1230 849 1754 884">Info missing in result report</td></tr> <tr> <td data-bbox="1170 884 1230 921">3</td><td data-bbox="1230 884 1754 921">Info missing in both protocol & result report</td></tr> <tr> <td data-bbox="1170 921 1230 955">4</td><td data-bbox="1230 921 1754 955">Same level of details & matching</td></tr> <tr> <td data-bbox="1170 955 1230 990">5</td><td data-bbox="1230 955 1754 990">RR has more details & matching</td></tr> <tr> <td data-bbox="1170 990 1230 1025">6</td><td data-bbox="1230 990 1754 1025">RR has fewer details & matching</td></tr> <tr> <td data-bbox="1170 1025 1230 1060">7</td><td data-bbox="1230 1025 1754 1060">Mismatched details</td></tr> <tr> <td data-bbox="1170 1060 1230 1216">99</td><td data-bbox="1230 1060 1754 1216">Cannot be determined</td></tr> </table> | 0 | Not applicable | 1 | Info missing in protocol | 2 | Info missing in result report | 3 | Info missing in both protocol & result report | 4 | Same level of details & matching | 5 | RR has more details & matching | 6 | RR has fewer details & matching | 7 | Mismatched details | 99 | Cannot be determined |
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| Question | Options | | | | | | | | | | | | | | | | |
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| | <input type="checkbox"/> 99 Uncertain | | | | | | | | | | | | | | | | |
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| Did the authors provide justification for the change/discrepancy? | multiple-choice <table border="1" data-bbox="1176 466 1529 616"> <tr> <td data-bbox="1176 466 1221 498">1</td> <td data-bbox="1221 466 1529 498">Yes</td> </tr> <tr> <td data-bbox="1176 514 1221 546">0</td> <td data-bbox="1221 514 1529 546">No</td> </tr> <tr> <td data-bbox="1176 562 1221 593">99</td> <td data-bbox="1221 562 1529 593">Justification not needed</td> </tr> </table> | 1 | Yes | 0 | No | 99 | Justification not needed | | | | | | | | | | |
| 1 | Yes | | | | | | | | | | | | | | | | |
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| 99 | Justification not needed | | | | | | | | | | | | | | | | |
| What was the justification provided by authors? | text | | | | | | | | | | | | | | | | |
| Was there any discrepancy in the method(s) to adjust for autocorrelation (AC)? | multiple-choice <table border="1" data-bbox="1176 720 1754 1124"> <tr> <td data-bbox="1176 720 1221 752">1</td> <td data-bbox="1221 720 1754 752">Info missing in protocol</td> </tr> <tr> <td data-bbox="1176 768 1221 800">2</td> <td data-bbox="1221 768 1754 800">Info missing in result report</td> </tr> <tr> <td data-bbox="1176 816 1221 847">3</td> <td data-bbox="1221 816 1754 847">Info missing in both protocol & result report</td> </tr> <tr> <td data-bbox="1176 863 1221 895">4</td> <td data-bbox="1221 863 1754 895">Same level of details & matching</td> </tr> <tr> <td data-bbox="1176 911 1221 943">5</td> <td data-bbox="1221 911 1754 943">RR has more details & matching</td> </tr> <tr> <td data-bbox="1176 959 1221 990">6</td> <td data-bbox="1221 959 1754 990">RR has fewer details & matching</td> </tr> <tr> <td data-bbox="1176 1006 1221 1038">7</td> <td data-bbox="1221 1006 1754 1038">Mismatched details</td> </tr> <tr> <td data-bbox="1176 1054 1221 1086">99</td> <td data-bbox="1221 1054 1754 1086">Cannot be determined</td> </tr> </table> | 1 | Info missing in protocol | 2 | Info missing in result report | 3 | Info missing in both protocol & result report | 4 | Same level of details & matching | 5 | RR has more details & matching | 6 | RR has fewer details & matching | 7 | Mismatched details | 99 | Cannot be determined |
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| 99 | Cannot be determined | | | | | | | | | | | | | | | | |
| Was the discrepancy important? | multiple-choice <table border="1" data-bbox="1176 1171 1484 1322"> <tr> <td data-bbox="1176 1171 1221 1203">1</td> <td data-bbox="1221 1171 1484 1203">Potentially important</td> </tr> <tr> <td data-bbox="1176 1219 1221 1251">0</td> <td data-bbox="1221 1219 1484 1251">Likely unimportant</td> </tr> <tr> <td data-bbox="1176 1267 1221 1298">99</td> <td data-bbox="1221 1267 1484 1298">Uncertain</td> </tr> </table> | 1 | Potentially important | 0 | Likely unimportant | 99 | Uncertain | | | | | | | | | | |
| 1 | Potentially important | | | | | | | | | | | | | | | | |
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| Question | Options | | | | | | | | | | | | | | | | |
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| Explain why you think there is a discrepancy and whether this discrepancy is potentially important | text | | | | | | | | | | | | | | | | |
| Did the authors provide justification for the change/discrepancy? | multiple-choice <table border="1" data-bbox="1174 393 1529 541"> <tr> <td>1</td> <td>Yes</td> </tr> <tr> <td>0</td> <td>No</td> </tr> <tr> <td>99</td> <td>Justification not needed</td> </tr> </table> | 1 | Yes | 0 | No | 99 | Justification not needed | | | | | | | | | | |
| 1 | Yes | | | | | | | | | | | | | | | | |
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| 99 | Justification not needed | | | | | | | | | | | | | | | | |
| What was the justification provided by authors? | text | | | | | | | | | | | | | | | | |
| Was there any discrepancy in the method(s) to detect and/or adjust for seasonality? | multiple-choice <table border="1" data-bbox="1174 663 1754 1052"> <tr> <td>1</td> <td>Info missing in protocol</td> </tr> <tr> <td>2</td> <td>Info missing in result report</td> </tr> <tr> <td>3</td> <td>Info missing in both protocol & result report</td> </tr> <tr> <td>4</td> <td>Same level of details & matching</td> </tr> <tr> <td>5</td> <td>RR has more details & matching</td> </tr> <tr> <td>6</td> <td>RR has fewer details & matching</td> </tr> <tr> <td>7</td> <td>Mismatched details</td> </tr> <tr> <td>99</td> <td>Cannot be determined</td> </tr> </table> | 1 | Info missing in protocol | 2 | Info missing in result report | 3 | Info missing in both protocol & result report | 4 | Same level of details & matching | 5 | RR has more details & matching | 6 | RR has fewer details & matching | 7 | Mismatched details | 99 | Cannot be determined |
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| 99 | Uncertain | | | | | | | | | | | | | | | | |
| Explain why you think there is a discrepancy and whether this discrepancy is potentially important | text | | | | | | | | | | | | | | | | |

| Question | Options | | | | | | | | | | | | | | | | |
|---|--|---|--------------------------|---|-------------------------------|----|---|---|----------------------------------|---|--------------------------------|---|---------------------------------|---|--------------------|----|----------------------|
| Did the authors provide justification for the change/discrepancy? | multiple-choice <table border="1" data-bbox="1170 298 1529 449"> <tr> <td>1</td> <td>Yes</td> </tr> <tr> <td>0</td> <td>No</td> </tr> <tr> <td>99</td> <td>Justification not needed</td> </tr> </table> | 1 | Yes | 0 | No | 99 | Justification not needed | | | | | | | | | | |
| 1 | Yes | | | | | | | | | | | | | | | | |
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| 99 | Justification not needed | | | | | | | | | | | | | | | | |
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| Was there any discrepancy in the method(s) to test and/or adjust non-stationarity? | multiple-choice <table border="1" data-bbox="1170 562 1754 957"> <tr> <td>1</td> <td>Info missing in protocol</td> </tr> <tr> <td>2</td> <td>Info missing in result report</td> </tr> <tr> <td>3</td> <td>Info missing in both protocol & result report</td> </tr> <tr> <td>4</td> <td>Same level of details & matching</td> </tr> <tr> <td>5</td> <td>RR has more details & matching</td> </tr> <tr> <td>6</td> <td>RR has fewer details & matching</td> </tr> <tr> <td>7</td> <td>Mismatched details</td> </tr> <tr> <td>99</td> <td>Cannot be determined</td> </tr> </table> | 1 | Info missing in protocol | 2 | Info missing in result report | 3 | Info missing in both protocol & result report | 4 | Same level of details & matching | 5 | RR has more details & matching | 6 | RR has fewer details & matching | 7 | Mismatched details | 99 | Cannot be determined |
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| 99 | Cannot be determined | | | | | | | | | | | | | | | | |
| Was the discrepancy important? | multiple-choice <table border="1" data-bbox="1170 1013 1484 1164"> <tr> <td>1</td> <td>Potentially important</td> </tr> <tr> <td>0</td> <td>Likely unimportant</td> </tr> <tr> <td>99</td> <td>Uncertain</td> </tr> </table> | 1 | Potentially important | 0 | Likely unimportant | 99 | Uncertain | | | | | | | | | | |
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| 1 | Yes | | | | | | | | | | | | | | | | |

| Question | Options | | | | | | | | | | | | | | | | |
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| 0 | No | | | | | | | | | | | | | | | | |
| 99 | Justification not needed | | | | | | | | | | | | | | | | |
| What was the justification provided by authors? | text | | | | | | | | | | | | | | | | |
| Was there any discrepancy in the presence and the type of control series? | multiple-choice <table border="1" data-bbox="1170 473 1747 878"> <tr> <td data-bbox="1170 473 1230 509">1</td><td data-bbox="1230 473 1747 509">Info missing in protocol</td></tr> <tr> <td data-bbox="1170 509 1230 546">2</td><td data-bbox="1230 509 1747 546">Info missing in result report</td></tr> <tr> <td data-bbox="1170 546 1230 582">3</td><td data-bbox="1230 546 1747 582">Info missing in both protocol & result report</td></tr> <tr> <td data-bbox="1170 582 1230 619">4</td><td data-bbox="1230 582 1747 619">Same level of details & matching</td></tr> <tr> <td data-bbox="1170 619 1230 655">5</td><td data-bbox="1230 619 1747 655">RR has more details & matching</td></tr> <tr> <td data-bbox="1170 655 1230 692">6</td><td data-bbox="1230 655 1747 692">RR has fewer details & matching</td></tr> <tr> <td data-bbox="1170 692 1230 728">7</td><td data-bbox="1230 692 1747 728">Mismatched details</td></tr> <tr> <td data-bbox="1170 728 1230 878">99</td><td data-bbox="1230 728 1747 878">Cannot be determined</td></tr> </table> | 1 | Info missing in protocol | 2 | Info missing in result report | 3 | Info missing in both protocol & result report | 4 | Same level of details & matching | 5 | RR has more details & matching | 6 | RR has fewer details & matching | 7 | Mismatched details | 99 | Cannot be determined |
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| 7 | Mismatched details | | | | | | | | | | | | | | | | |
| 99 | Cannot be determined | | | | | | | | | | | | | | | | |
| Was the discrepancy important? | multiple-choice <table border="1" data-bbox="1170 928 1484 1084"> <tr> <td data-bbox="1170 928 1230 965">1</td><td data-bbox="1230 928 1484 965">Potentially important</td></tr> <tr> <td data-bbox="1170 965 1230 1002">0</td><td data-bbox="1230 965 1484 1002">Likely unimportant</td></tr> <tr> <td data-bbox="1170 1002 1230 1084">99</td><td data-bbox="1230 1002 1484 1084">Uncertain</td></tr> </table> | 1 | Potentially important | 0 | Likely unimportant | 99 | Uncertain | | | | | | | | | | |
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| Did the authors provide justification for the change/discrepancy? | multiple-choice <table border="1" data-bbox="1170 1225 1529 1379"> <tr> <td data-bbox="1170 1225 1230 1262">1</td><td data-bbox="1230 1225 1529 1262">Yes</td></tr> <tr> <td data-bbox="1170 1262 1230 1298">0</td><td data-bbox="1230 1262 1529 1298">No</td></tr> <tr> <td data-bbox="1170 1298 1230 1379">99</td><td data-bbox="1230 1298 1529 1379">Justification not needed</td></tr> </table> | 1 | Yes | 0 | No | 99 | Justification not needed | | | | | | | | | | |
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| 0 | No | | | | | | | | | | | | | | | | |
| 99 | Justification not needed | | | | | | | | | | | | | | | | |

| Question | Options | | | | | | | | | | | | | | | | | | |
|---|---|---|-----------------------|---|--------------------------|----|-------------------------------|---|---|---|----------------------------------|---|--------------------------------|---|---------------------------------|---|--------------------|----|----------------------|
| What was the justification provided by authors? | text | | | | | | | | | | | | | | | | | | |
| Was there any discrepancy in how the intervention series was compared to the control series? | multiple-choice <table border="1" data-bbox="1170 377 1747 830"> <tr><td>0</td><td>Not applicable</td></tr> <tr><td>1</td><td>Info missing in protocol</td></tr> <tr><td>2</td><td>Info missing in result report</td></tr> <tr><td>3</td><td>Info missing in both protocol & result report</td></tr> <tr><td>4</td><td>Same level of details & matching</td></tr> <tr><td>5</td><td>RR has more details & matching</td></tr> <tr><td>6</td><td>RR has fewer details & matching</td></tr> <tr><td>7</td><td>Mismatched details</td></tr> <tr><td>99</td><td>Cannot be determined</td></tr> </table> | 0 | Not applicable | 1 | Info missing in protocol | 2 | Info missing in result report | 3 | Info missing in both protocol & result report | 4 | Same level of details & matching | 5 | RR has more details & matching | 6 | RR has fewer details & matching | 7 | Mismatched details | 99 | Cannot be determined |
| 0 | Not applicable | | | | | | | | | | | | | | | | | | |
| 1 | Info missing in protocol | | | | | | | | | | | | | | | | | | |
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| Explain why you think there is a discrepancy and whether this discrepancy is potentially important | text | | | | | | | | | | | | | | | | | | |
| Did the authors provide justification for the change/discrepancy? | multiple-choice <table border="1" data-bbox="1170 1165 1529 1316"> <tr><td>1</td><td>Yes</td></tr> <tr><td>0</td><td>No</td></tr> <tr><td>99</td><td>Justification not needed</td></tr> </table> | 1 | Yes | 0 | No | 99 | Justification not needed | | | | | | | | | | | | |
| 1 | Yes | | | | | | | | | | | | | | | | | | |
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| 99 | Justification not needed | | | | | | | | | | | | | | | | | | |

| Question | Options |
|--|---------|
| What was the justification provided by authors? | text |

Additional File 6. Examples of important and non-important discrepancies

| Item | Non-important discrepancies | Important discrepancies |
|----------------------------------|--|--|
| Primary research question | | |
| A. Primary research question | <ul style="list-style-type: none"> The intervention was only described broadly in the protocol but was specifically defined in the results report. <p>Example: Protocol (P) tailored, multifaceted, interventions designed to increase the translation of research findings into practice; Results report (RR) a tailored intervention designed to increase primary health care professionals' adoption of a national recommendation for postnatal depression</p> | <ul style="list-style-type: none"> Discrepancy in any of the elements that made up the primary research question (participants, intervention, comparator) <p>Example:</p> <p>(P) The analysis will compare post-interruption to pre-interruption in the intervention group; (RR) The analysis compared the pre-post difference in the intervention with that of the control group.</p> <p>(P) We will recruit patients from home care offices and supportive living sites; (RR) We will recruit patients from home care offices.</p> <p>(P) The study will take place in two cities; (RR) The study was conducted in one city only.</p> |
| Data collection | | |
| B. Eligibility criteria | <ul style="list-style-type: none"> The results report added details for the existing inclusion or exclusion criteria. Discrepancies were unlikely to result in a significant change in demographics of the recruited population <p>Examples:</p> <p>(P) The recruitment period will be from 1st September 2015 to 31st August 2018; (RR) The recruitment period will be from 2nd August 2015 to 31 August 2018.</p> <p>(P) Participants will be deemed inactive if they report 0 or 1 day of moderate-vigorous physical activity; (RR) Participants were deemed inactive if they report <3 days of moderate-vigorous physical activity.</p> <p>Example: (P) internal medicine departments of medical centre X, hospital centre Y, and hospital centre Z; (RR) departments of internal medicine of 3 teaching hospitals in the Netherlands</p> | <ul style="list-style-type: none"> The results report added or removed inclusion or exclusion criteria. <p>Examples:</p> <p>(P) Authors reported eligibility criteria for the study sites (hospitals) only. (RR) Authors reported eligibility criteria for both the hospitals and the participants.</p> <p>(P) Neonates will not be included if one of the parents refuse his/her participation in the study. (RR) Neonates were excluded if their parents refused consent, or if they presented with major congenital malformations or underwent surgery and required endotracheal intubation.</p> |
| C. Data sources | <ul style="list-style-type: none"> Data source was officially renamed (but was the same source). Data source was broadly defined in the protocol and further specified in the results report. <p>Example: (P) national maternity surveys; (RR) Care Quality Commission and National Perinatal Epidemiology Unit surveys (both are national maternity surveys in the United Kingdom)</p> | <ul style="list-style-type: none"> The results report added, removed or changed data sources. |

| Item | Non-important discrepancies | Important discrepancies |
|---|--|--|
| Design of time series | | |
| D. Overall length of the time series | <ul style="list-style-type: none"> Authors stated "at least x data points" in the protocol and provided a specific number of data points in the results report that aligned. Example: (P) at least 24 data points; (RR) 36 data points Authors stated in the protocol that there was a possibility of extending or changing the data collection period, and the change in the results report aligned with the authors' prediction. The number of discrepant data points was not substantive compared to the overall length of the time series. Example: (P) 120 data points; (RR) 121 data points | <ul style="list-style-type: none"> The number of discrepant data points was substantive compared to the overall length of the time series. Example: (P) 24 data points; (RR) 36 data points → difference of 12 data points (50%) |
| E. Start and end dates of each segment in the time series | <ul style="list-style-type: none"> The discrepancy in dates was not substantive compared to the overall time series (e.g., few omitted data points in a stable time series with limited seasonality). Authors stated in the protocol that there was a possibility of extending or changing the data collection period, and the change in the results report aligned with the authors' prediction. | <ul style="list-style-type: none"> The discrepancy in dates was substantive compared to the overall time series. Example: (P) Jan 2010-Dec 2015; (RR) Jan 2001-Dec 2015 → difference of 9 years (60% the length of RR) The change in dates might have led to unaccounted events to have impact on outcomes. Example: (P) Jan 2010-Dec 2015; (RR) Jan 2013-Mar 2015. The outcome was all-cause mortality. Between 2010 and 2015, there could be potentially many different socioeconomic events or policies that impacted mortality. The omitted/added data points resulting from the change in dates might be important to establish underlying trends (e.g., pre-interruption or post-interruption slopes, seasonal pattern). Examples: A data point near the inflection point or near the interruption was more likely to change the effect if omitted, compared to a datapoint that was in the centre of the segment. An outlier was more likely to change the effect if omitted, compared to a data point that is relatively similar to adjacent data points. |
| F. No. data points in each segment in the time series | <ul style="list-style-type: none"> The number of discrepant data points was not substantive compared to the length of the corresponding time segment. Authors stated in the protocol that there was a possibility of extending or changing the data collection period, and the change in the results report aligned with the authors' prediction. | <ul style="list-style-type: none"> The number of discrepant data points was substantive compared to the length of the corresponding time segment. The change in lengths of the segments might have led to an imbalanced time series. Example: Two segments: (P) Jan 2012-Dec 2012, Jan 2013-Dec 2013 (12:12 data points); (RR) Apr 2015-Dec 2012, Jan 2013-Mar 2014 (9:15 data points). The overall length of the time series remained the same, but each segment had a discrepancy of 3 data points (25% the length of the original segment). Moreover, the time series was balanced in the protocol but became imbalanced in the results report. |

| Item | Non-important discrepancies | Important discrepancies |
|--|---|--|
| Model characteristics | | |
| G. Start and end dates of each segment in the ITS model | Same rules as item E. | Same rules as item E. |
| H. No. data points in each segment in the ITS model | Same rules as item F. | Same rules as item F. |
| I. Time interval(s) at which outcome data was aggregated | <ul style="list-style-type: none"> The protocol outlined several potential time intervals for aggregation and the results report used one of those time intervals. | <ul style="list-style-type: none"> The results report aggregated using a different time interval. The protocol described an ITS but the results report described a simple pre-post analysis. |
| J. How the interruption was modelled | <ul style="list-style-type: none"> The protocol outlined several potential models and the results report used one of those models. The protocol outlined a principle of how a model would be selected and the results report followed that principle when selecting the best suited model for the analysis. | <ul style="list-style-type: none"> The results report modelled the interruption differently. <p>Example: (P) Three-segment time series. The interruption was modelled as a standalone time segment. (RR) Two-segment time series. The interruption was excluded from the model.</p> |
| K. Which segments were compared to address the primary research question | Same rules as item J. | <ul style="list-style-type: none"> The results report compared different pairs of segments. <p>Example: Three-segment time series. The interruption was modelled as a standalone time segment. (P) The analysis compared the pre-interruption segment with the post-interruption segment (excluding the interruption segment). (RR) The analysis compared the pre-interruption segment with the combined (interruption + post-interruption) segment</p> <ul style="list-style-type: none"> The results report introduced or omitted a control time series for comparison. |
| L. Types of effect measures reported | Same rules as item J. | <ul style="list-style-type: none"> The results reports added, removed or changed the effect measures reported. <p>Example: (P) The model describes a level change and a slope change. (RR) Only level changes were reported.</p> <ul style="list-style-type: none"> The model in the results report was different from the model in the protocol, resulting in a different parameter being generated and reported. <p>Example: (P) The model describes a level change and a slope change. (RR) The model describes a level change, a slope change and introduced an interaction term (group x time). (group refers to the intervention vs control group)</p> <ul style="list-style-type: none"> The protocol described an ITS but the results report described a difference-in-difference analysis or simple pre-post analysis. |

| Item | Non-important discrepancies | Important discrepancies |
|---|--|---|
| Statistical analysis | | |
| M. ITS analysis method(s) | <ul style="list-style-type: none"> The result report elaborated on the method described in the protocol. Example: (P) segmented regression; (RR) segmented logistic regression for binary outcomes and segmented linear regression for linear outcomes. The protocol outlined a principle of how the method would be selected and the results report followed that principle when selecting the best suited analysis method. Example: (P) mixed Poisson model or negative binomial model if there is overdispersion; (RR) mixed-effects negative binomial model (authors provided evidence for overdispersion) | <ul style="list-style-type: none"> The results report used a different regression method. Examples: (P) segmented linear regression; (RR) segmented binomial regression (P) generalised linear regression; (RR) generalised logistic mixed models The results report used a different approach to model different sites. Example: (P) A single model with random effects for different sites; (RR) Multiple separate analyses for different sites. The protocol described ITS analysis methods (e.g., segmented regression) but the results report described difference-in-difference analysis or simple pre-post analysis. |
| N. Decision rule on whether to adjust for autocorrelation | <ul style="list-style-type: none"> The protocol outlined the general principle of how autocorrelation will be adjusted, and the results report elaborated on the steps taken. Example: (P) If more than one candidate model results in a stationary time series without autocorrelation, we will conduct likelihood ratio tests to identify the model with best model fit. (RR) The best model was selected based on AIC/BIC values. | <ul style="list-style-type: none"> The results report adopted a different approach to make the decision on autocorrelation adjustment. Example: (P) The data will be adjusted for autocorrelation and the underlying secular trend. (RR) If a Durbin-Watson test result was significant, we adjusted the model using autoregressive integrated moving average. |
| O. Method(s) of testing for autocorrelation | <ul style="list-style-type: none"> The protocol specified the method and the results report elaborated on the details of the method. Example: (P) The Durbin-Watson test for autocorrelation will be used. (R) The Durbin-Watson test was used. A Durbin-Watson value close to 2 suggests no autocorrelation; values below 2 indicate positive autocorrelation, and those above 2 signify negative autocorrelation. | <ul style="list-style-type: none"> The results report added or removed method(s). Example: (P) Durbin-Watson test; (RR) Visual inspection of residual, autocorrelation, and partial autocorrelation function plots The results report used the same general method but changed the specific test(s) used. Example: (P) Cumby-Huizinga test (RR) Cumby-Huizinga test and Durbin-Watson test |
| P. Method(s) of adjusting for autocorrelation | <ul style="list-style-type: none"> The protocol specified the method and the results report elaborated on the details of the method. Example: (P) If autocorrelation is present, an autocorrelation parameter will be included in the model. (RR) Autocorrelation parameters up to lag 12 were included and reduced using backward elimination in order to fit the most parsimonious model. | <ul style="list-style-type: none"> The results report added or removed method(s), or used a different method. Example: (P) Two modelling processes will be used to account for serial dependence: intervention models and linear models. (RR) ARIMA model was used. The form of the ARIMA model was determined using the auto.arima function. The results report used the same general method but used different parameters that could have produced different results. Example: (P) ARIMA model with first-order autoregressive AR(1) model; (RR) The autocorrelation and moving average parameters were selected using the automated auto.arima function in R (which could have produced different AR terms). |

| Item | Non-important discrepancies | Important discrepancies |
|---|--|---|
| Q. Method(s) of testing & adjusting for seasonality | <ul style="list-style-type: none"> The protocol specified the method and the results report elaborated on the details of the method. The protocol outlined the general principle of how seasonality will be adjusted, and the results report follows that principle (even if it means seasonality was eventually not adjusted for). <p>Example: (P) The time component will include a seasonal effect. (RR) Plotting the proportion of precise variables showed no obvious seasonal effects or trends and, therefore, seasonal effects were not added to the models.</p> | <ul style="list-style-type: none"> The results report added or removed method(s), or used a different method. Example: (P) Seasonal ARIMA (SARIMA) model will be used. (RR) Spline-based model was used to capture seasonal trends. The results report used the same general method but used different parameters that could have produced different results. Example: Both the protocol and results report used a spline-based model but the splines had different number and location of knots. |
| R. Method(s) of testing & adjusting for non-stationarity | <ul style="list-style-type: none"> The protocol specified the method and the results report elaborated on the details of the method. The protocol outlined the general principle of how non-stationarity will be adjusted, and the results report follows that principle (even if it means non-stationarity was eventually not adjusted for). | <ul style="list-style-type: none"> The results report added or removed method(s), or used a different method. The results report used the same general method but used different parameters that could have produced different results. |
| S. Presence and type of control series | <ul style="list-style-type: none"> Both the protocol and results report stated there was a control time series, but the details of the control varied. <p>Examples: different locations for control sites; different control outcomes.</p> | <ul style="list-style-type: none"> The protocol stated there was no control time series and the results report used a control time series, or vice versa. |
| T. Method(s) of comparing intervention and control series | <ul style="list-style-type: none"> The protocol specified the method and the results report elaborated on the details of the method. | <ul style="list-style-type: none"> The results report added or removed method(s), or used a different method. |

Notes: When assessing discrepancies, the reviewers prioritised information that was explicitly stated in the respective articles, and deprioritised information that required assumption or inference by the reviewers. For example, the authors might include the following introduction about the ITS design, "An ITS model typically measures a level change and a slope change". However, we would not assume that the authors intended to report estimates of level and slope change unless directly specified by the authors. In another example, the authors might state that "A researcher visited the site and recorded data every month". This only refers to the frequency of data collection – we would not assume that the data would be aggregated into monthly intervals for the time series.

Additional File 7. Study design and analysis methods reported

| Item | Protocols (N=44) | Results reports (N=44) |
|--|---------------------|---------------------------|
| Characteristics of the time series | | |
| No. data points in the overall time series, median (IQR) | 36 (26 to 58) | 36 (24 to 70) |
| No. segments in the time series, median (IQR) | 3 (2 to 3) | 3 (2 to 3) |
| Two segments | 16 (36%) | 21 (48%) |
| More than two segments | 24 (55%) | 22 (50%) |
| The ITS model | | |
| No. segments in the ITS model median (IQR) | 2 (2 to 3) | 2 (2 to 3) |
| Two segments | 20 (45%) | 28 (64%) |
| More than two segments | 12 (27%) | 14 (32%) |
| Time interval(s) at which outcome data was aggregated | | |
| Weekly | 2 (5%) | 3 (7%) |
| Monthly | 24 (55%) | 26 (59%) |
| Quarterly | 6 (14%) | 3 (7%) |
| Two periods only (pre- and post-interruption) | 0 (0%) | 7 (16%) |
| Other | 6 (14%) | 7 (16%) |
| How the intervention was modelled | | |
| Not modelled - the intervention period was excluded from the time series | 10 (23%) | 7 (16%) |
| As a separate intervention period | 9 (20%) | 12 (27%) |
| As part of the post-intervention period | 15 (34%) | 20 (45%) |
| Types of effect measures reported | | |
| Level change (e.g., immediate or long-term) | 22 (50%) | 27 (61%) |
| Slope change | 22 (50%) | 21 (48%) |
| Other ITS effect measure(s) quantifying impact of interruption (e.g. regression coefficient) | 3 (7%) | 6 (14%) |
| Other non-ITS effect measure(s) quantifying impact of interruption | - | 15 (34%) |
| Cannot be determined | - | 2 (5%) |

| Item | Protocols (N=44) | Results reports (N=44) |
|---|-------------------------|---------------------------|
| Statistical analysis methods | | |
| ITS analysis method(s) | | |
| ARIMA | 5 (11%) | 5 (11%) |
| Regression (linear, logistic, binomial, negative binomial or Poisson) | 25 (57%) | 29 (66%) |
| Generalized linear models | 6 (14%) | 8 (18%) |
| Other | 3 (7%) | 3 (7%) |
| Acknowledgement of autocorrelation | | |
| Decision rule on whether to adjust for autocorrelation | | |
| Always adjusted for autocorrelation | 5 (11%) | 5 (11%) |
| Decision to adjust based on a visual or statistical test for presence of autocorrelation | 3 (7%) | 4 (9%) |
| Other | 5 (11%) | 9 (20%) |
| Method(s) to detect presence of autocorrelation | | |
| Statistical test (e.g. Durbin-Watson, Breusch-Godfrey, Ljung-Box, Cumby-Huizinga tests) | 5/39 ^a (13%) | 11/39 (28%) |
| Visual inspection of time series (autocorrelation and partial autocorrelation function plots, histogram) | 5/39 (13%) | 6/39 (15%) |
| Other | 1/39 (3%) | 7/39 (18%) |
| Method(s) of adjusting for autocorrelation | | |
| Used non-ARIMA methods to adjust (e.g. Newey-West, Prais-Winsten) or modelled autocorrelation (by adding lag terms) | 5 (11%) | 10 (23%) |
| Directly modelled the error structure using ARIMA | 5 (11%) | 5 (11%) |
| Acknowledgement of seasonality | | |
| Method(s) to detect & adjust for seasonality | | |
| Not applicable - author specified seasonality was not adjusted | 0 (0%) | 3 (7%) |
| Determined whether seasonality was present, either visually or via a statistical test | 1 (2%) | 3 (7%) |

| Item | Protocols (N=44) | Results reports (N=44) |
|---|-------------------------|---------------------------|
| Adjusted by adding a regression term for time (e.g. months, seasons) into model | 3 (7%) | 5 (11%) |
| Adjusted by fitting a spline function of time into model | 3 (7%) | 2 (5%) |
| Adjusted by other method(s) | 2 (5%) | 2 (5%) |
| Acknowledgement of non-stationarity | 2 (5%) | 4 (9%) |
| Method(s) to detect & adjust for non-stationarity | | |
| Not applicable – author specified non-stationarity was not adjusted | 0 (0%) | 1 (2%) |
| Determined whether non-stationarity was present, either visually or via a statistical test (e.g., Augmented Dickey-Fuller test) | 2 (5%) | 3 (7%) |
| Transformed to stationary series by differencing | 5 (11%) | 7 (16%) |
| Other | 0 (0%) | 1 (2%) |
| Presence and type of control series | | |
| Control series was used | 18 (41%) | 18 (41%) |
| Control series was not used | 11 (25%) | 26 (59%) |
| Method(s) of comparing intervention and control series | | |
| Presenting the control series independently, without comparing to the intervention series | 2/18 ^b (11%) | 7/18 (39%) |
| A single model that includes both the intervention and control series | 2/18 (11%) | 7/18 (39%) |
| Other | 2/18 (11%) | 4/18 (22%) |

Abbreviations: ARIMA: autoregressive integrated moving average; IQR: interquartile range; ITS: interrupted time series; RR: results report

In each item, percentages may not add up to 100% as some studies did not report the item.

^a For the item "Method(s) of testing for autocorrelation", the denominator only includes studies where the authors said they might test for presence of autocorrelation.

^b For the item "Method(s) of comparing intervention and control series", the denominator only includes studies where there was a control series.

Additional File 8. Justifications provided by authors for discrepancies

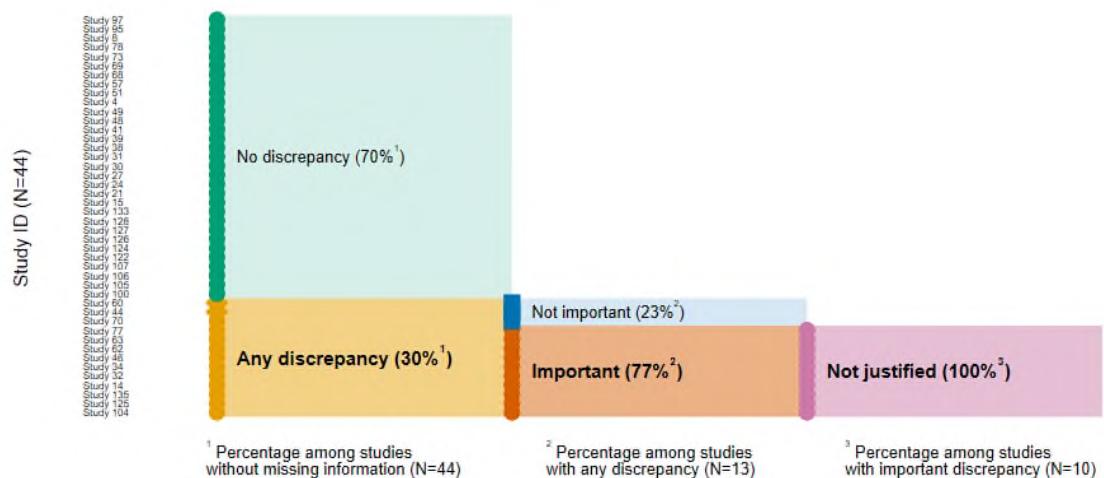
| Justification provided for discrepancy | No. studies with this justification | No. studies where this item had a discrepancy that was justified with this justification | | | | | | | | | |
|---|-------------------------------------|--|----------------------------|-----------------------------|----------------------------------|-----------------------------------|----------------------------|-------------------------------------|---------------------------|------------------------------------|--|
| | | Overall length of time series | Start/end date of segments | No. data points of segments | Start/end date of segments model | No. data points of segments model | Aggregation time intervals | Statistical method for ITS analysis | Presence of control group | Methods of comparing control group | |
| Lack of funding affected data collection | 1 | 1 | 5 | 1 | 1 | 1 | - | - | - | - | |
| Data collection / implementation was hindered by COVID-19 restrictions | 2 | 1 | 7 | 2 | 1 | 1 | - | - | - | - | |
| Control sites were not available for various reasons e.g. issues with obtaining approval, data not submitted, data collected not matching the intervention site | 1 | - | 2 | - | - | - | - | - | 1 | 1 | |
| Actual implementation time differed from plans | 1 | 1 | 1 | - | - | - | - | - | - | - | |
| Data collection was extended to investigate attenuation of intervention effect | 1 | - | 2 | 1 | 1 | - | - | - | - | - | |
| The intervention series length was reduced to match the control series length | 1 | - | 2 | 1 | - | 1 | - | - | - | - | |
| A simpler model was fitted to reduce analysis run time | 1 | - | 1 | - | - | - | - | 1 | - | - | |
| An outlier time point was dropped | 1 | - | 1 | - | 1 | - | - | - | - | - | |
| Time interval was changed to handle rare events | 1 | - | 1 | - | - | - | 1 | - | - | - | |

Note: Within one study, the same justification can apply to multiple methods discrepancies. For example, a change of data collection period due to lack of funding can change the overall length of the time series, number of data points in each segment, and the start and end dates of these segments.

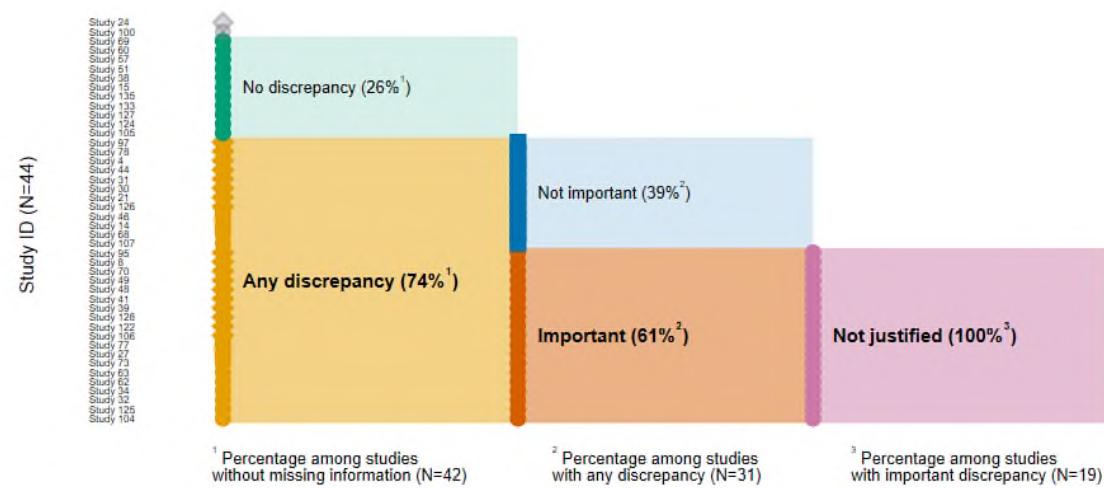
Additional File 9. Frequency of discrepancies by reporting item

Abbreviations: RR: results report

A. Primary research question



B. Eligibility criteria



SYMBOL KEY

Missing information

- Missing in protocol
- Missing in RR
- ◆ Missing in both protocol and RR

No discrepancy

- RR details matching protocol

Any discrepancy

- RR details did not match protocol
- RR fewer details than protocol
- ◆ RR more details than protocol

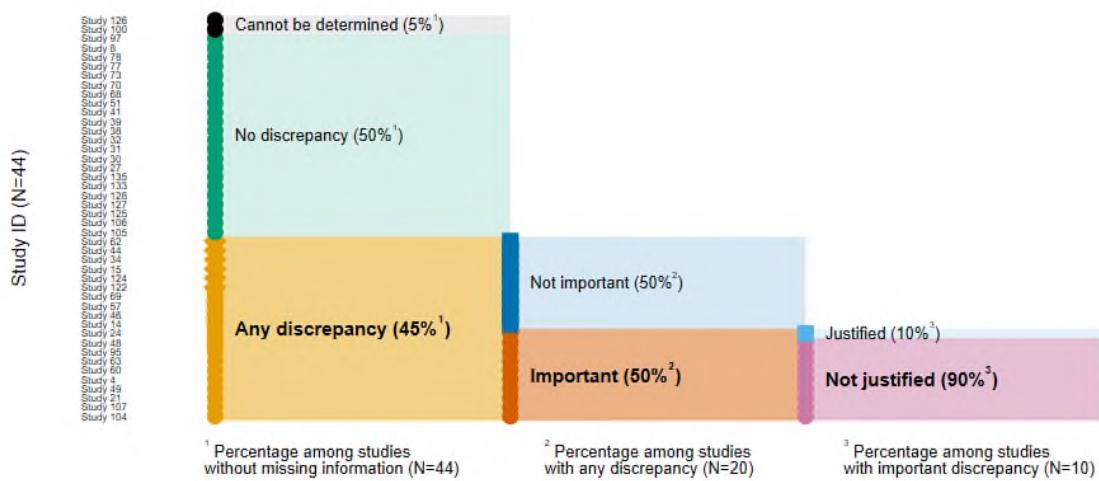
Importance of discrepancy

- Potential to significantly impact results
- No significant impact on results

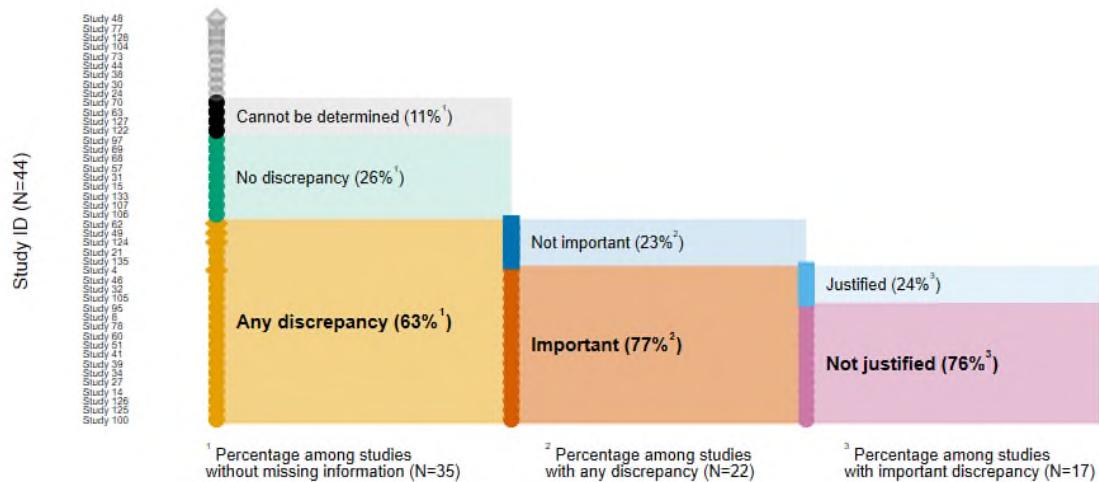
Justification for discrepancy

- Justification not provided
- Justification provided

C. Data sources



D. Overall length of the time series



SYMBOL KEY

Missing information

- Missing in protocol
- Missing in RR
- ◆ Missing in both protocol and RR

No discrepancy

- RR details matching protocol

Any discrepancy

- RR details did not match protocol
- RR fewer details than protocol
- ◆ RR more details than protocol

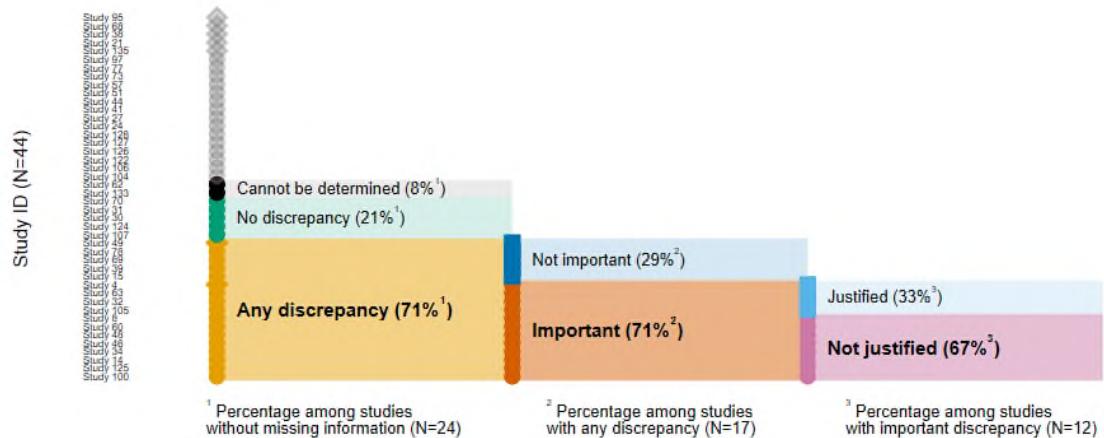
Importance of discrepancy

- Potential to significantly impact results
- No significant impact on results

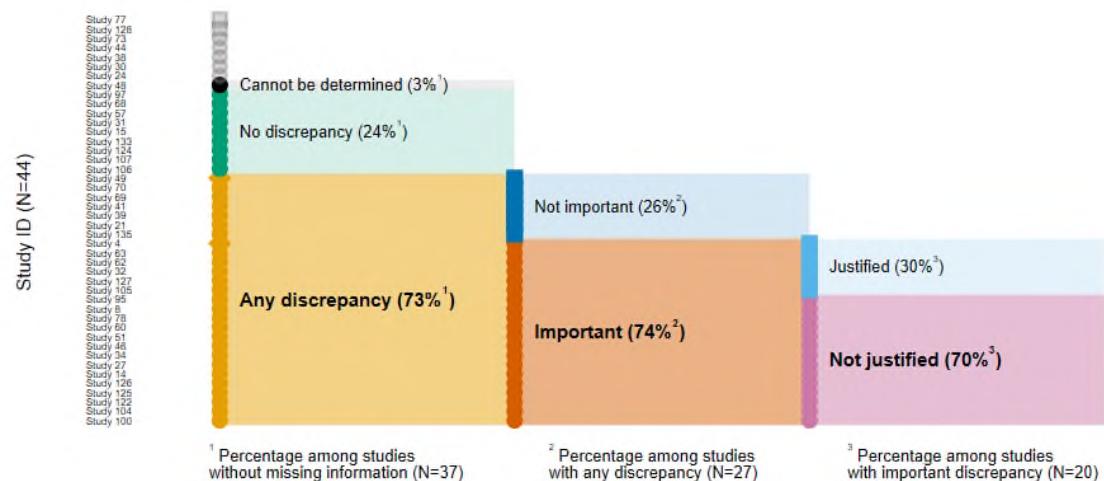
Justification for discrepancy

- Justification not provided
- Justification provided

E. Start and end dates of each segment in the time series



F. No. data points in each segment in the time series



SYMBOL KEY

Missing information

- Missing in protocol
- Missing in RR
- ◆ Missing in both protocol and RR

No discrepancy

- RR details matching protocol

Any discrepancy

- RR details did not match protocol
- RR fewer details than protocol
- ◆ RR more details than protocol

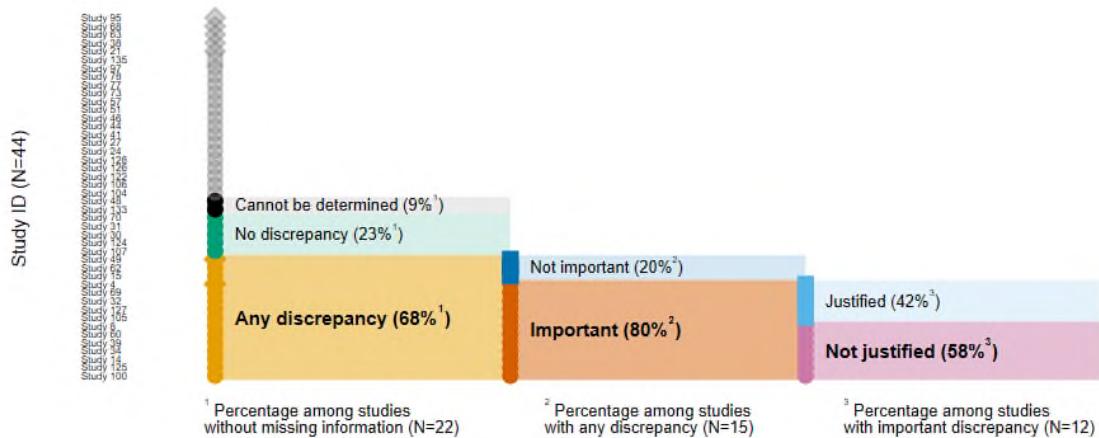
Importance of discrepancy

- Potential to significantly impact results
- No significant impact on results

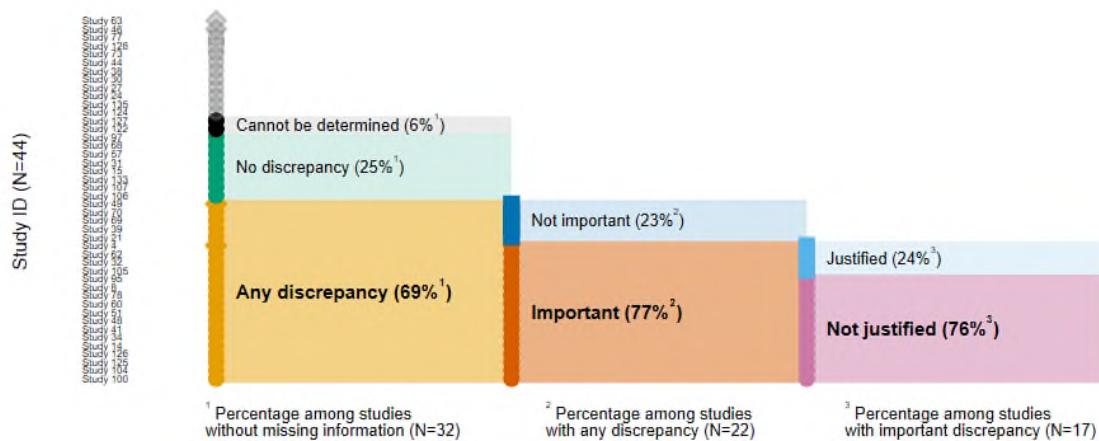
Justification for discrepancy

- Justification not provided
- Justification provided

G. Start and end dates of each segment in the ITS model



H. No. data points in each segment in the ITS model



SYMBOL KEY

Missing information

- Missing in protocol
- Missing in RR
- ◆ Missing in both protocol and RR

No discrepancy

- RR details matching protocol

Any discrepancy

- RR details did not match protocol
- RR fewer details than protocol
- ◆ RR more details than protocol

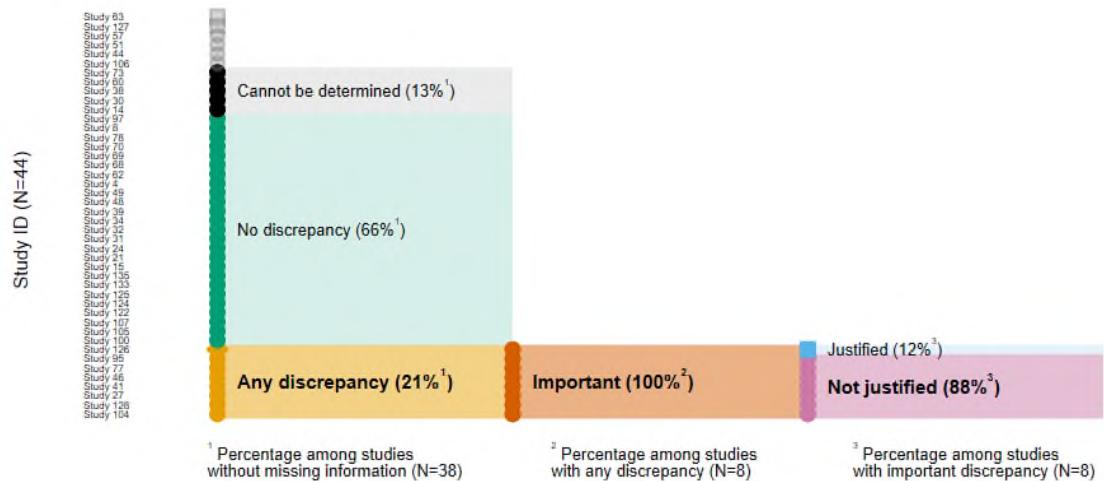
Importance of discrepancy

- Potential to significantly impact results
- No significant impact on results

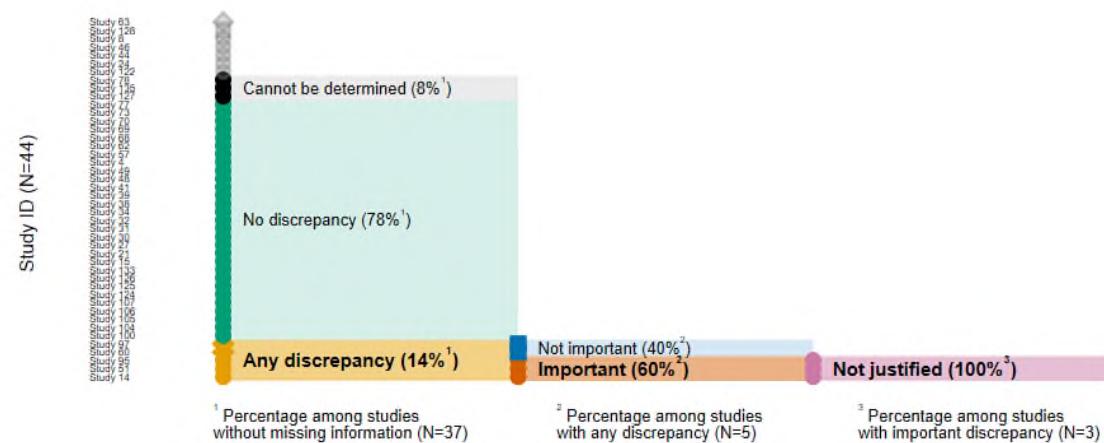
Justification for discrepancy

- Justification not provided
- Justification provided

I. Time interval(s) at which outcome data was aggregated



J. How the interruption was modelled



SYMBOL KEY

Missing information

- Missing in protocol
- Missing in RR
- ◆ Missing in both protocol and RR

No discrepancy

- RR details matching protocol

Any discrepancy

- RR details did not match protocol
- RR fewer details than protocol
- ◆ RR more details than protocol

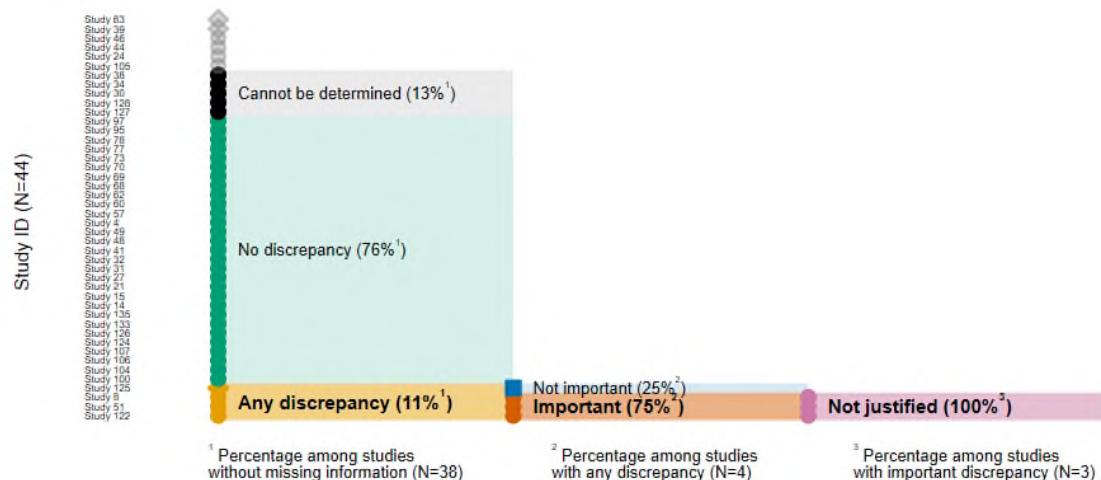
Importance of discrepancy

- Potential to significantly impact results
- No significant impact on results

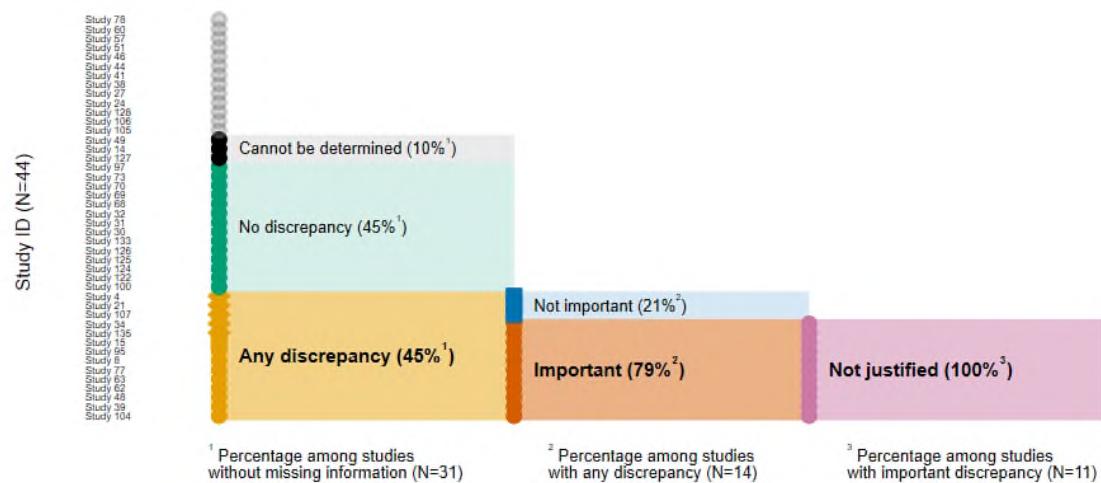
Justification for discrepancy

- Justification not provided
- Justification provided

K. Which segments were compared to address the primary research question



L. Types of effect measures reported



SYMBOL KEY

Missing information

- Missing in protocol
- Missing in RR
- ◆ Missing in both protocol and RR

No discrepancy

- RR details matching protocol

Any discrepancy

- RR details did not match protocol
- RR fewer details than protocol
- ◆ RR more details than protocol

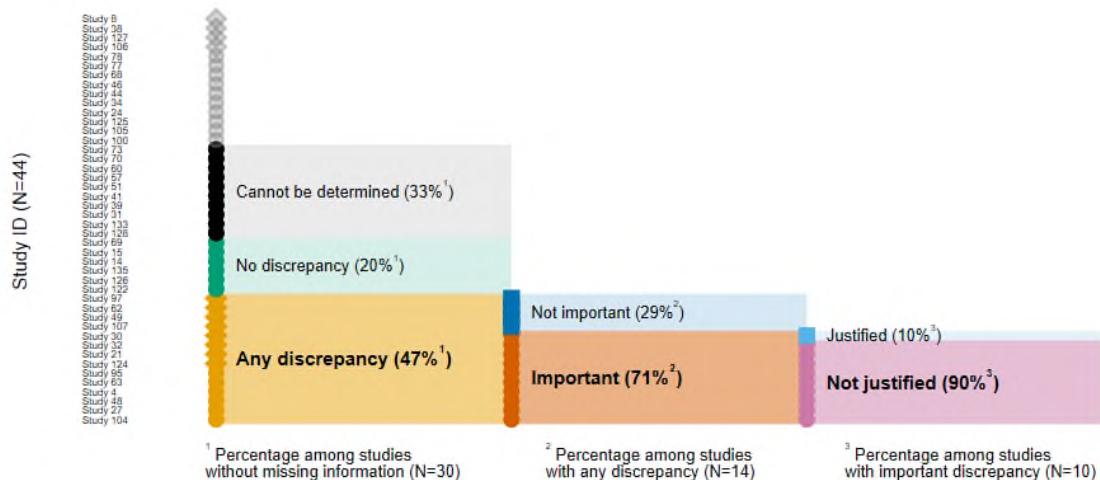
Importance of discrepancy

- Potential to significantly impact results
- No significant impact on results

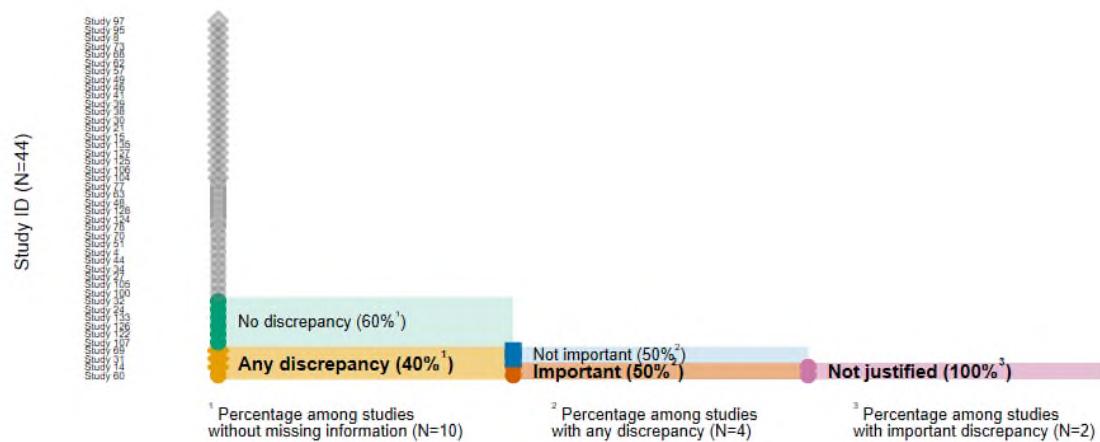
Justification for discrepancy

- Justification not provided
- Justification provided

M. ITS analysis method(s)



N. Approach to decide whether to adjust for autocorrelation



SYMBOL KEY

Missing information

● Missing in protocol

■ Missing in RR

◆ Missing in both protocol and RR

No discrepancy

● RR details matching protocol

Any discrepancy

● RR details did not match protocol

■ RR fewer details than protocol

◆ RR more details than protocol

Importance of discrepancy

● Potential to significantly impact results

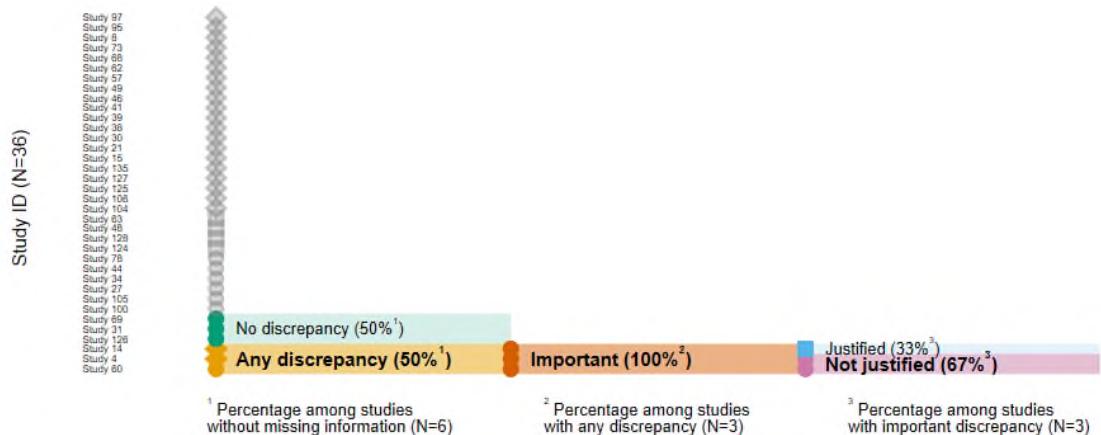
■ No significant impact on results

Justification for discrepancy

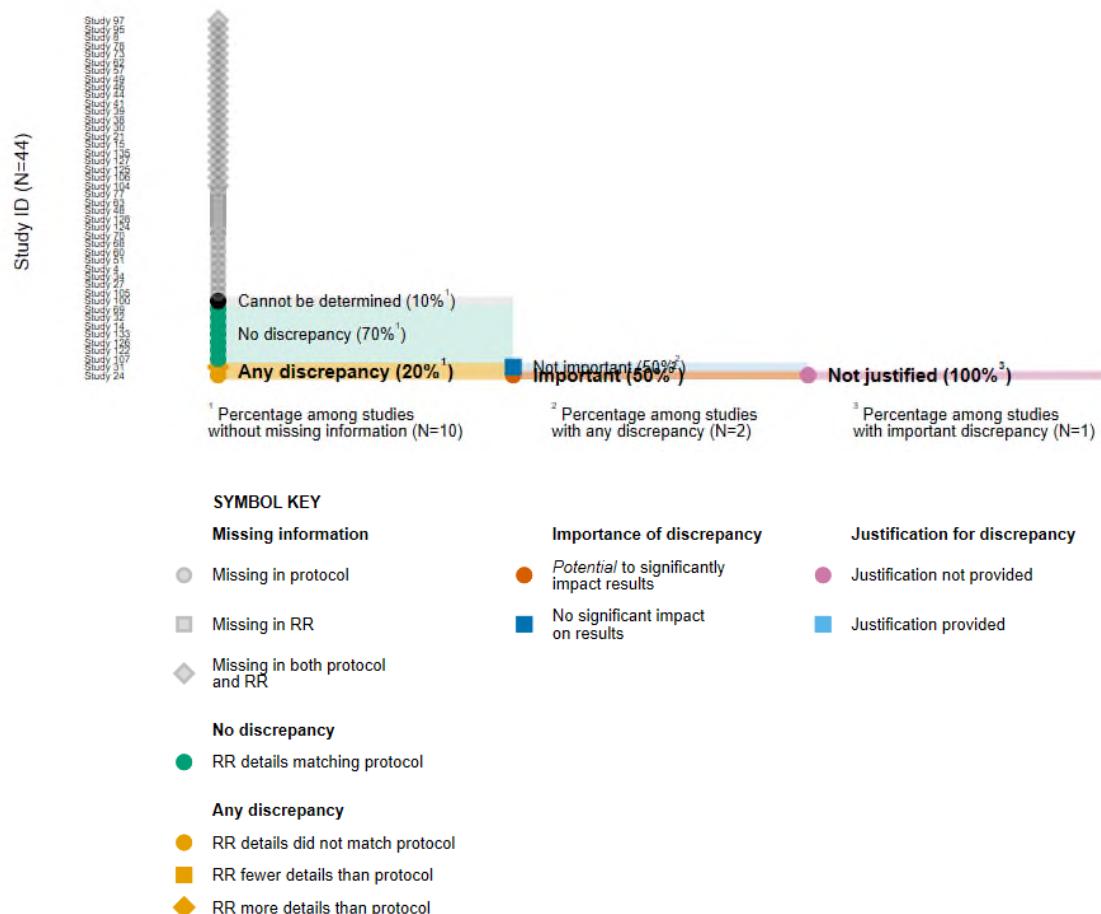
● Justification not provided

■ Justification provided

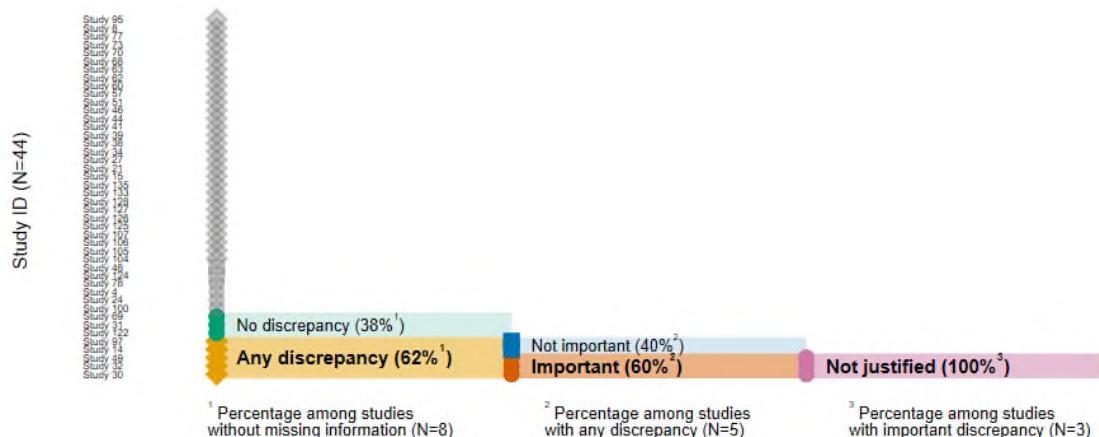
O. Method(s) of testing for autocorrelation



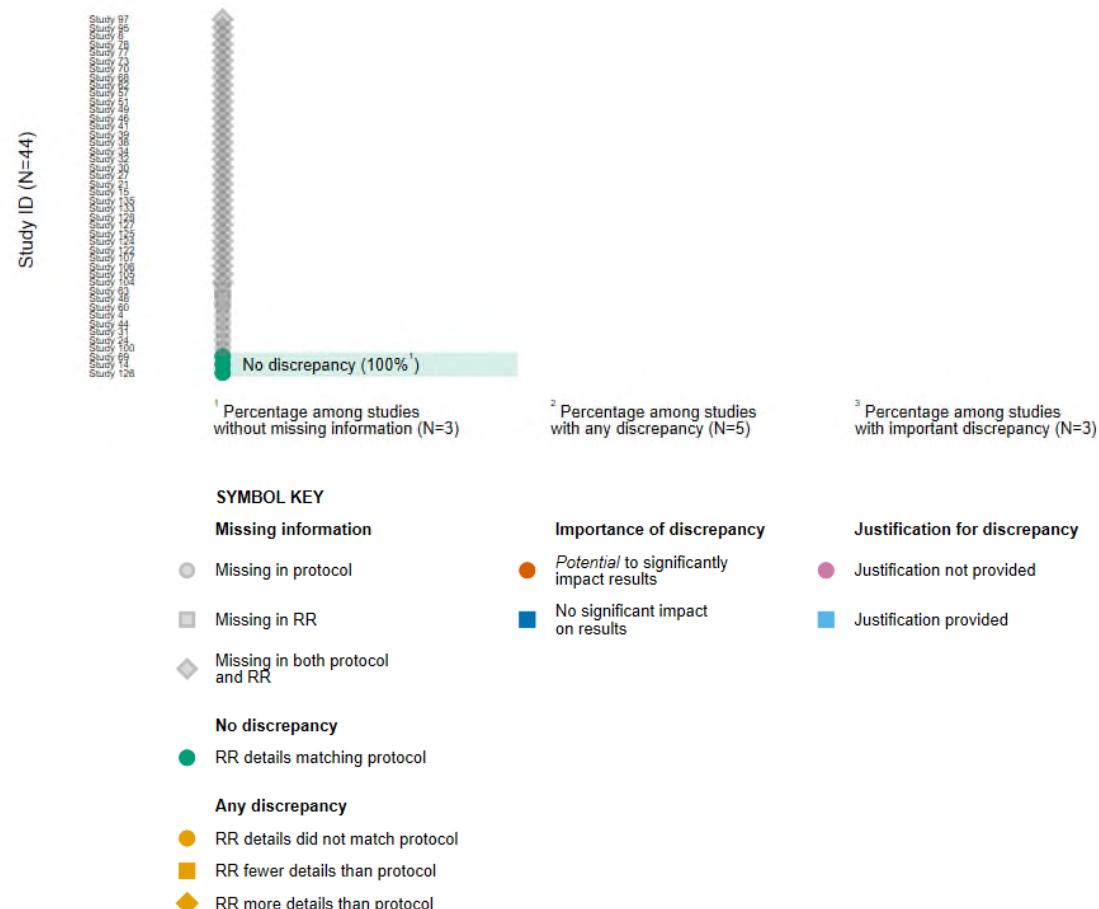
P. Method(s) of adjusting for autocorrelation



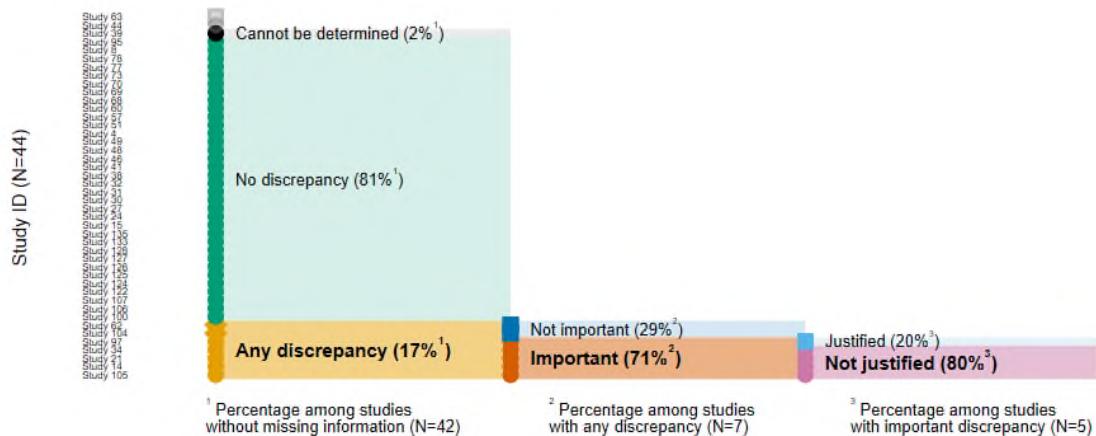
Q. Method(s) of testing & adjusting for seasonality



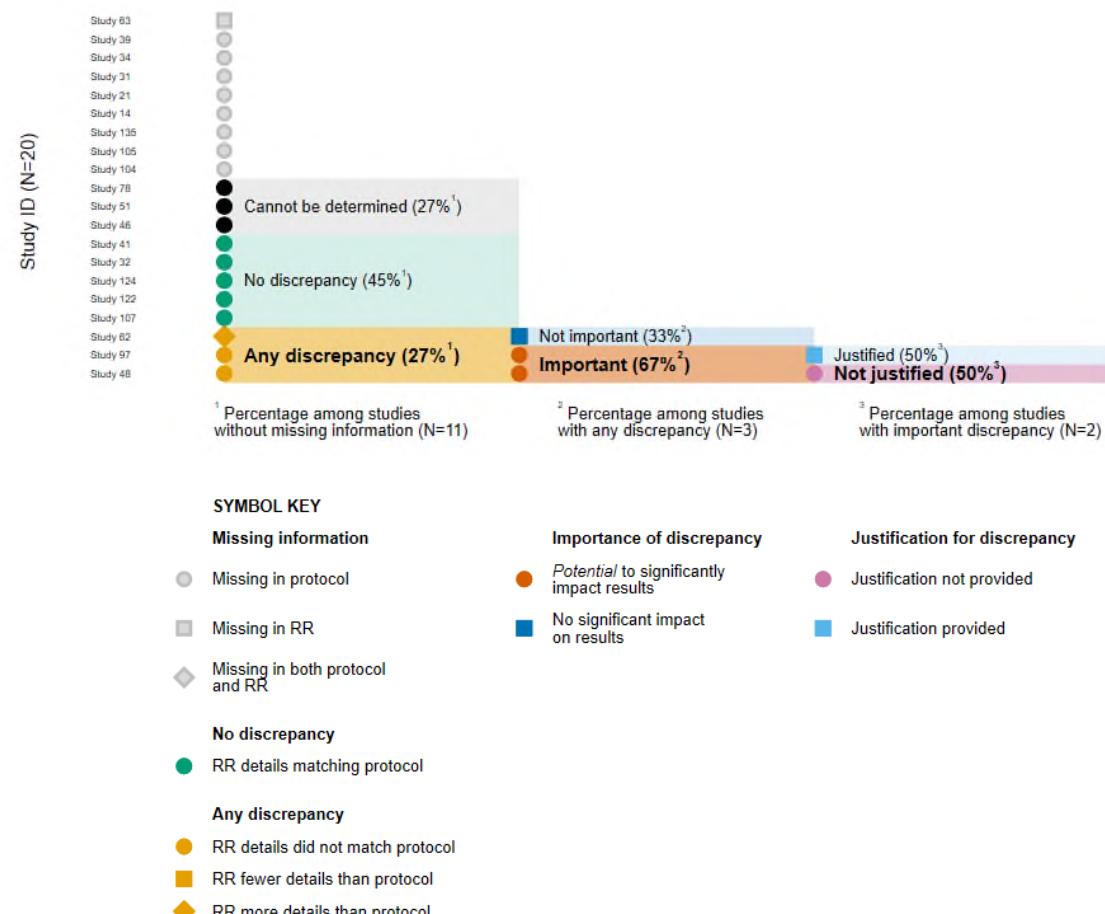
R. Method(s) of testing & adjusting for non-stationarity



S. Presence and type of control series



T. Method(s) of comparing intervention and control series



Additional File 10. Percentage of discrepancies between protocols and results reports: all categories of discrepancies

| Item | Discrepancy (%) | Potentially important discrepancy ^a (%) | Justification not provided for discrepancy (%) |
|---|-----------------|--|--|
| Overview of study design | | | |
| (A) Primary research question | | | |
| Missing information in protocol and/or results report | 0/44 (0%) | - | - |
| Any discrepancy between results report and protocol | 13/44 (30%) | 10/44 (23%) | 10/10 ^b (100%) |
| Results report details did not match protocol | 11/44 (25%) | 10/44 (23%) | 10/10 (100%) |
| Results report had fewer details than protocol | 2/44 (5%) | 0/44 (0%) | 0/10 (0%) |
| Results report had more details than protocol | 0/44 (0%) | 0/44 (0%) | 0/10 (0%) |
| Cannot be determined ^c | 0/44 (0%) | - | - |
| (B) Eligibility criteria | | | |
| Missing information in protocol and/or results report | 2/44 (5%) | - | - |
| Any discrepancy between results report and protocol | 31/44 (70%) | 19/44 (43%) | 19/19 (100%) |
| Results report details did not match protocol | 9/44 (20%) | 7/44 (16%) | 7/19 (37%) |
| Results report had fewer details than protocol | 18/44 (41%) | 10/44 (23%) | 10/19 (53%) |
| Results report had more details than protocol | 4/44 (9%) | 2/44 (5%) | 2/19 (11%) |
| Cannot be determined | 0/44 (0%) | - | - |
| (C) Data sources | | | |
| Missing information in protocol and/or results report | 0/44 (0%) | - | - |
| Any discrepancy between results report and protocol | 20/44 (45%) | 10/44 (23%) | 9/10 (90%) |
| Results report details did not match protocol | 9/44 (20%) | 9/44 (20%) | 8/10 (80%) |
| Results report had fewer details than protocol | 6/44 (14%) | 0/44 (0%) | 0/10 (0%) |
| Results report had more details than protocol | 5/44 (11%) | 1/44 (2%) | 1/10 (10%) |
| Cannot be determined | 2/44 (5%) | - | - |
| Characteristics of the time series | | | |
| (D) Overall length of the time series | | | |
| Missing information in protocol and/or results report | 9/44 (20%) | - | - |

| Item | Discrepancy (%) | Potentially important discrepancy ^a (%) | Justification not provided for discrepancy (%) |
|---|-----------------|--|--|
| Any discrepancy between results report and protocol | 22/44 (50%) | 17/44 (39%) | 13/17 (76%) |
| Results report details did not match protocol | 18/44 (41%) | 16/44 (36%) | 13/17 (76%) |
| Results report had fewer details than protocol | 4/44 (9%) | 1/44 (2%) | 0/17 (0%) |
| Results report had more details than protocol | 0/44 (0%) | 0/44 (0%) | 0/17 (0%) |
| Cannot be determined | 4/44 (9%) | - | - |

(E) Start and end dates of each segment in the time series

| | | | |
|---|-------------|-------------|------------|
| Missing information in protocol and/or results report | 20/44 (45%) | - | - |
| Any discrepancy between results report and protocol | 17/44 (39%) | 12/44 (27%) | 8/12 (67%) |
| Results report details did not match protocol | 15/44 (34%) | 11/44 (25%) | 8/12 (67%) |
| Results report had fewer details than protocol | 2/44 (5%) | 1/44 (2%) | 0/12 (0%) |
| Results report had more details than protocol | 0/44 (0%) | 0/44 (0%) | 0/12 (0%) |
| Cannot be determined | 2/44 (5%) | - | - |

(F) No. data points in each segment in the time series

| | | | |
|---|-------------|-------------|-------------|
| Missing information in protocol and/or results report | 7/44 (16%) | - | - |
| Any discrepancy between results report and protocol | 27/44 (61%) | 20/44 (45%) | 14/20 (70%) |
| Results report details did not match protocol | 25/44 (57%) | 19/44 (43%) | 14/20 (70%) |
| Results report had fewer details than protocol | 2/44 (5%) | 1/44 (2%) | 0/20 (0%) |
| Results report had more details than protocol | 0/44 (0%) | 0/44 (0%) | 0/20 (0%) |
| Cannot be determined | 1/44 (2%) | - | - |

The ITS model

(G) Start and end dates of each segment in the ITS model

| | | | |
|---|-------------|-------------|------------|
| Missing information in protocol and/or results report | 22/44 (50%) | - | - |
| Any discrepancy between results report and protocol | 15/44 (34%) | 12/44 (27%) | 7/12 (58%) |
| Results report details did not match protocol | 13/44 (30%) | 11/44 (25%) | 7/12 (58%) |
| Results report had fewer details than protocol | 2/44 (5%) | 1/44 (2%) | 0/12 (0%) |
| Results report had more details than protocol | 0/44 (0%) | 0/44 (0%) | 0/12 (0%) |

| Item | Discrepancy (%) | Potentially important discrepancy ^a (%) | Justification not provided for discrepancy (%) |
|--|-----------------|--|--|
| Cannot be determined | 2/44 (5%) | - | - |
| (H) No. data points in each segment in the ITS model | | | |
| Missing information in protocol and/or results report | 12/44 (27%) | - | - |
| Any discrepancy between results report and protocol | 22/44 (50%) | 17/44 (39%) | 13/17 (76%) |
| Results report details did not match protocol | 20/44 (45%) | 16/44 (36%) | 13/17 (76%) |
| Results report had fewer details than protocol | 2/44 (5%) | 1/44 (2%) | 0/17 (0%) |
| Results report had more details than protocol | 0/44 (0%) | 0/44 (0%) | 0/17 (0%) |
| Cannot be determined | 2/44 (5%) | - | - |
| (I) Time interval(s) at which outcome data was aggregated | | | |
| Missing information in protocol and/or results report | 6/44 (14%) | - | - |
| Any discrepancy between results report and protocol | 8/44 (18%) | 8/44 (18%) | 7/8 (88%) |
| Results report details did not match protocol | 7/44 (16%) | 7/44 (16%) | 7/8 (88%) |
| Results report had fewer details than protocol | 1/44 (2%) | 1/44 (2%) | 0/8 (0%) |
| Results report had more details than protocol | 0/44 (0%) | 0/44 (0%) | 0/8 (0%) |
| Cannot be determined | 5/44 (11%) | - | - |
| (J) How the interruption was modelled | | | |
| Missing information in protocol and/or results report | 7/44 (16%) | - | - |
| Any discrepancy between results report and protocol | 5/44 (11%) | 3/44 (7%) | 3/3 (100%) |
| Results report details did not match protocol | 3/44 (7%) | 3/44 (7%) | 3/3 (100%) |
| Results report had fewer details than protocol | 2/44 (5%) | 0/44 (0%) | 0/3 (0%) |
| Results report had more details than protocol | 0/44 (0%) | 0/44 (0%) | 0/3 (0%) |
| Cannot be determined | 3/44 (7%) | - | - |
| (K) Which segments were compared to address the primary research question | | | |
| Missing information in protocol and/or results report | 6/44 (14%) | - | - |
| Any discrepancy between results report and protocol | 4/44 (9%) | 3/44 (7%) | 3/3 (100%) |
| Results report details did not match protocol | 3/44 (7%) | 3/44 (7%) | 3/3 (100%) |

| Item | Discrepancy (%) | Potentially important discrepancy ^a (%) | Justification not provided for discrepancy (%) |
|---|-----------------|--|--|
| Results report had fewer details than protocol | 1/44 (2%) | 0/44 (0%) | 0/3 (0%) |
| Results report had more details than protocol | 0/44 (0%) | 0/44 (0%) | 0/3 (0%) |
| Cannot be determined | 5/44 (11%) | - | - |
| (L) Types of effect measure(s) reported | | | |
| Missing information in protocol and/or results report | 13/44 (30%) | - | - |
| Any discrepancy between results report and protocol | 14/44 (32%) | 11/44 (25%) | 11/11 (100%) |
| Results report details did not match protocol | 8/44 (18%) | 8/44 (18%) | 8/11 (73%) |
| Results report had fewer details than protocol | 5/44 (11%) | 2/44 (5%) | 2/11 (18%) |
| Results report had more details than protocol | 1/44 (2%) | 1/44 (2%) | 1/11 (9%) |
| Cannot be determined | 3/44 (7%) | - | - |
| Statistical analysis methods | | | |
| (M) ITS analysis method(s) | | | |
| Missing information in protocol and/or results report | 14/44 (32%) | - | - |
| Any discrepancy between results report and protocol | 14/44 (32%) | 10/44 (23%) | 9/10 (90%) |
| Results report details did not match protocol | 6/44 (14%) | 6/44 (14%) | 6/10 (60%) |
| Results report had fewer details than protocol | 8/44 (18%) | 4/44 (9%) | 3/10 (30%) |
| Results report had more details than protocol | 0/44 (0%) | 0/44 (0%) | 0/10 (0%) |
| Cannot be determined | 10/44 (23%) | - | - |
| (N) Decision rule on whether to adjust for autocorrelation | | | |
| Missing information in protocol and/or results report | 34/44 (77%) | - | - |
| Any discrepancy between results report and protocol | 4/44 (9%) | 2/44 (5%) | 2/2 (100%) |
| Results report details did not match protocol | 1/44 (2%) | 1/44 (2%) | 1/2 (50%) |
| Results report had fewer details than protocol | 3/44 (7%) | 1/44 (2%) | 1/2 (50%) |
| Results report had more details than protocol | 0/44 (0%) | 0/44 (0%) | 0/2 (0%) |
| Cannot be determined | 0/44 (0%) | - | - |
| (O) Method(s) of testing for autocorrelation | | | |

| Item | Discrepancy (%) | Potentially important discrepancy ^a (%) | Justification not provided for discrepancy (%) |
|--|--------------------------|--|--|
| Missing information in protocol and/or results report | 30/36 ^d (83%) | - | - |
| Any discrepancy between results report and protocol | 3/36 (8%) | 3/36 (8%) | 2/3 (67%) |
| Results report details did not match protocol | 1/36 (3%) | 1/36 (3%) | 1/3 (33%) |
| Results report had fewer details than protocol | 2/36 (6%) | 2/36 (6%) | 1/3 (33%) |
| Results report had more details than protocol | 0/36 (0%) | 0/36 (0%) | 0/3 (0%) |
| Cannot be determined | 0/36 (0%) | - | - |
| (P) Method(s) of adjusting for autocorrelation | | | |
| Missing information in protocol and/or results report | 34/44 (77%) | - | - |
| Any discrepancy between results report and protocol | 2/44 (5%) | 1/44 (2%) | 1/1 (100%) |
| Results report details did not match protocol | 1/44 (2%) | 1/44 (2%) | 1/1 (100%) |
| Results report had fewer details than protocol | 1/44 (2%) | 0/44 (0%) | 0/1 (0%) |
| Results report had more details than protocol | 0/44 (0%) | 0/44 (0%) | 0/1 (0%) |
| Cannot be determined | 1/44 (2%) | - | - |
| (Q) Method(s) of testing & adjusting for seasonality | | | |
| Missing information in protocol and/or results report | 36/44 (82%) | - | - |
| Any discrepancy between results report and protocol | 5/44 (11%) | 3/44 (7%) | 3/3 (100%) |
| Results report details did not match protocol | 0/44 (0%) | 0/44 (0%) | 0/3 (0%) |
| Results report had fewer details than protocol | 5/44 (11%) | 3/44 (7%) | 3/3 (100%) |
| Results report had more details than protocol | 0/44 (0%) | 0/44 (0%) | 0/3 (0%) |
| Cannot be determined | 0/44 (0%) | - | - |
| (R) Method(s) of testing & adjusting for non-stationarity | | | |
| Missing information in protocol and/or results report | 41/44 (93%) | - | - |
| Any discrepancy between results report and protocol | 0/44 (0%) | 0/44 (0%) | - |
| Results report details did not match protocol | 0/44 (0%) | 0/44 (0%) | - |
| Results report had fewer details than protocol | 0/44 (0%) | 0/44 (0%) | - |
| Results report had more details than protocol | 0/44 (0%) | 0/44 (0%) | - |
| Cannot be determined | 0/44 (0%) | - | - |

| Item | Discrepancy (%) | Potentially important discrepancy ^a (%) | Justification not provided for discrepancy (%) |
|---|-------------------------|--|--|
| (S) Presence and type of control series | | | |
| Missing information in protocol and/or results report | 2/44 (5%) | - | - |
| Any discrepancy between results report and protocol | 7/44 (16%) | 5/44 (11%) | 4/5 (80%) |
| Results report details did not match protocol | 5/44 (11%) | 5/44 (11%) | 4/5 (80%) |
| Results report had fewer details than protocol | 2/44 (5%) | 0/44 (0%) | 0/5 (0%) |
| Results report had more details than protocol | 0/44 (0%) | 0/44 (0%) | 0/5 (0%) |
| Cannot be determined | 1/44 (2%) | - | - |
| (T) Method(s) of comparing intervention and control series | | | |
| Missing information in protocol and/or results report | 9/20 ^e (45%) | - | - |
| Any discrepancy between results report and protocol | 3/20 (15%) | 2/20 (10%) | 1/2 (50%) |
| Results report details did not match protocol | 2/20 (10%) | 2/20 (10%) | 1/2 (50%) |
| Results report had fewer details than protocol | 1/20 (5%) | 0/20 (0%) | 0/2 (0%) |
| Results report had more details than protocol | 0/20 (0%) | 0/20 (0%) | 0/2 (0%) |
| Cannot be determined | 3/20 (15%) | - | - |

Notes:

^a Discrepancy had potential to significantly impact the results. See [Additional File S6](#) for examples.

^b Denominator is the number of studies with important discrepancy between the protocol and the results report.

^c "Cannot be determined" is applicable to studies that had some information about the item reported in both the protocol and the results report, but the information was either too vague or insufficient to determine whether there was a discrepancy, or what type of discrepancy it was.

^d For Method(s) of testing for autocorrelation", the denominator only includes studies where the authors said they might test for presence of autocorrelation.

^e For "Method(s) of comparing intervention and control series", the denominator only includes studies where there was a control series.

Abbreviations: ITS: interrupted time series