

## 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.

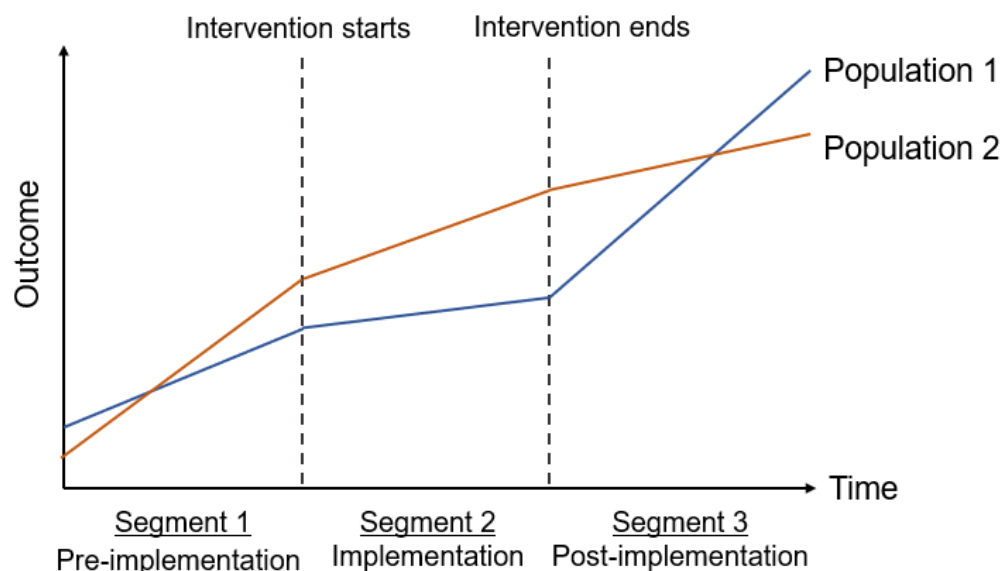
### **3.2. Primary ITS research questions**

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										
<b>Information from protocols – Basic information</b>											
<b>Title of protocol</b>	text										
<b>What is the name of the publishing journal?</b>	text										
<b>Does the protocol describe other planned analyses in addition to the ITS analysis (e.g. interviews, a pre-post analysis, cost-effectiveness study)</b> The protocol often refers to these as multiple objectives, aims, sub-studies, or work packages (WPs).	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										
<b>What is the source of funding?</b> In-kind materials are also considered funding, and should be described in subsequent questions about the role of the funder.	checkbox <table border="1"> <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]										
<b>Briefly describe the intervention(s) or exposure(s) that constitute the interruption points.</b>	text										
<b>What is the nature of interruption?</b> <ul style="list-style-type: none"> <li>Natural events: e.g. disease outbreaks, weather-related or geological events (floods, earthquakes)</li> <li>Unplanned human-made events: unintended or unforeseen human-driven events e.g. economic recession, environmental disasters, industrial accidents</li> </ul>	multiple-choice <table border="1"> <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"> <li>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).</li> <li>Health system interventions: interventions involving systemic changes at multiple levels e.g. health system strengthening, workforce changes, complex interventions involving multiple stakeholders</li> <li>Policy and regulatory changes: modifications in laws, national guidelines, or health system regulations e.g. taxation, lockdowns, national vaccination programmes</li> <li>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</li> <li>Environmental interventions: modifications to the living and natural environment to influence public health e.g. mosquito control programs, urban planning</li> </ul>	<table border="1"> <tr> <td>3</td> <td>Intervention: Practice change in a clinical setting</td> </tr> <tr> <td>4</td> <td>Intervention: Health system interventions</td> </tr> <tr> <td>5</td> <td>Intervention: Policy &amp; regulatory changes</td> </tr> <tr> <td>6</td> <td>Intervention: Social &amp; economic interventions</td> </tr> <tr> <td>7</td> <td>Intervention: Environmental interventions</td> </tr> <tr> <td>999</td> <td>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]												
<p><b>At which level will the intervention occur, or be delivered / implemented?</b></p> <ul style="list-style-type: none"> <li>Individual: The intervention is implemented in specific individuals without the intention to represent a geographical area.</li> <li>Unit-based or institutions: The intervention is implemented in one or more specific institutions, hospitals or departments within a hospital.</li> <li>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.</li> <li>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.</li> <li>Multinational: The intervention is implemented in multiple countries.</li> </ul>	<p>multiple-choice</p> <table border="1"> <tr> <td>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>	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												
<b>At which level will the effect of the interruption be assessed in this study?</b> <ul style="list-style-type: none"> <li>Individual: The intervention is implemented in specific individuals without the intention to represent a geographical area.</li> <li>Unit-based or institutions: The intervention is implemented in one or more specific institutions, hospitals or departments within a hospital.</li> <li>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.</li> <li>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.</li> <li>Multinational: The intervention is implemented in multiple countries.</li> </ul>	multiple-choice <table border="1"> <tr> <td>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>	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												
<b>What is the country where the study was implemented?</b>	text												
<b>Classify the country using the World Bank's income group</b>	checkbox <table border="1"> <tr> <td>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>	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												
<b>Is the data collected retrospectively, prospectively, or both?</b> 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 <table border="1"> <tr> <td>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>	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												
<b>Information from protocols – Study design and Analysis methods</b>													
<b>Summarise the primary research question(s) for the ITS analysis.</b>	text												

Question	Options						
<p>Examples</p> <ul style="list-style-type: none"> <li>• What are the effects of an antibiotic stewardship programme in a hospital aimed at reducing unnecessary antibiotic prescriptions, compared to no intervention?</li> <li>• What are the effects of a family planning intervention on pregnant women in intervention suburbs, compared to matched control suburbs?</li> </ul>							
<p><b>What were the eligibility criteria for participants/sites to be included in the ITS?</b></p> <p>Copy and paste from protocol or trial registry</p>	text						
<p><b>Describe the data source(s)</b></p> <p>Examples: name of data source, how it was collected (e.g. EHR, survey, audit reports) and any other important info</p>	text						
<p><b>Is the intervention implemented at a specific time or over a period of time?</b></p>	checkbox <table border="1"> <tbody> <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> </tbody> </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						
<p><b>Outline and describe all the segments in the time series</b></p> <p>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> <p>Example:  S1: Dec 2010-May 2011 (6 dp)  S2: Jun 2011-May 2012 (12 dp)  S3: Jun 2012-Dec 2012 (6 dp)</p>	text						

Question	Options										
<b>What is the number of segments?</b> Inclusive of intervention segment (S2) even when there is no data point for that segment	numeric										
<b>Can the number of data point per segment be determined?</b>	multiple-choice <table border="1"> <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										
<b>Can the start/end dates of each segment be determined?</b>	multiple-choice <table border="1"> <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										
<b>What is the number of data points in the time series?</b> Hierarchy: no. of data points based on the length of data collected > no. of data points used in sample size calculation.	text										
<b>Describe the impact model used to fit the time series</b> 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										
<b>How is the intervention modelled?</b> <ul style="list-style-type: none"> <li>Not modelled at all: The data points associated with the intervention period are excluded from the analysis (no trend line).</li> </ul>	multiple-choice <table border="1"> <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><b>Outline and describe all the segments in the time series, as how they appear in the model</b> 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						
<b>What is the number of segments model?</b>	numeric						
<b>Can the number of data point per segment be determined from the model?</b>	multiple-choice <table border="1"> <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						
<b>Can the start/end dates of each segment be determined from the model?</b>	multiple-choice <table border="1"> <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><b>Which segments in the model will be compared to address the primary research question (PRQ)?</b></p> <p>Examples:</p> <ul style="list-style-type: none"> <li>The PRQ is comparing post- vs pre-interruption segments of the intervention series only → S3 vs S2; S2 vs S1</li> <li>The PRQ is comparing the (implementation + post-implementation segments) vs pre-interruption segments of the intervention series only → (S2+S3) vs S1</li> <li>The PRQ is comparing pre- vs post-interruption change btw intervention and control series → (S3 vs S1, intervention) vs (S3 vs S1, control)</li> </ul>	text						

Question	Options																								
Did the authors provide the mathematical equation representing the model?	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																								
Which effect estimate will be calculated and reported?	checkbox <table border="1"> <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"> <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																								
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3	Daily																								
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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.																									
<p><b>Which statistical method(s) will be used to estimate the difference between pre- and post-interruption segments?</b></p> <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>	<p>checkbox</p> <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]
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<p><b>Did the authors make any mention of autocorrelation?</b></p> <p>Also known as "serial dependence", "serial correlation"</p>	<p>multiple-choice</p> <table border="1"> <tr> <td>1</td><td>Yes</td></tr> <tr> <td>0</td><td>No</td></tr> </table>	1	Yes	0	No																				
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<p><b>How will the authors decide whether to adjust for autocorrelation?</b></p> <ul style="list-style-type: none"> <li>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 &amp; PACF, histograms) or statistical tests (e.g.</li> </ul>	<p>checkbox</p> <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																						
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<p>Durbin-Watson, Cumby-Huizinga), and go with one model only, without fitting multiple models.</p> <ul style="list-style-type: none"> <li>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.</li> <li>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</li> <li>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.</li> </ul>	<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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<p><b>How will the presence of autocorrelation be tested?</b> 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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<p><b>Did the authors make any mention of seasonality?</b> Also known as "seasonal variation", "seasonal cycles", "periodic fluctuations" or phrases to that effect.</p>	<p>multiple-choice</p> <table border="1"> <tr> <td>1</td> <td>Yes</td> </tr> <tr> <td>0</td> <td>No</td> </tr> </table>	1	Yes	0	No										
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<p><b>How will seasonality be tested and/or adjusted?</b> 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"> <tr> <td>99</td> <td>Cannot be determined - author did not describe clearly a method of dealing with seasonality</td> </tr> <tr> <td>0</td> <td>Not applicable - author specified seasonality will not be investigated and adjusted</td> </tr> <tr> <td>1</td> <td>Determine whether seasonality is present, either visually or via a statistical test</td> </tr> <tr> <td>2</td> <td>Adjust by adding a regression term for time (e.g. months, seasons) into model</td> </tr> <tr> <td>3</td> <td>Adjust by fitting Fourier terms into model</td> </tr> <tr> <td>4</td> <td>Adjust by fitting a spline function of time into model</td> </tr> <tr> <td>5</td> <td>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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Did the authors make any mention of non-stationarity?	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								
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<b>How will non-stationarity be detected and/or adjusted?</b> 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"> <tr> <td>99</td><td>Cannot be determined - author did not describe clearly a method of dealing with nonstationarity</td></tr> <tr> <td>0</td><td>Not applicable - author specified nonstationarity will not be investigated and adjusted</td></tr> <tr> <td>1</td><td>Determine whether nonstationarity is present, either visually or via a statistical test (e.g. Augmented Dickey-Fuller test)</td></tr> <tr> <td>2</td><td>Transform to stationary series by differencing using non-ARIMA method</td></tr> <tr> <td>3</td><td>Transform to stationary series by differencing under ARIMA model</td></tr> <tr> <td>999</td><td>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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How will anomalous or outlying data points be handled?	checkbox <table border="1"> <tr> <td>99</td><td>Cannot be determined - author did not mention anomaly or outliers</td></tr> <tr> <td>0</td><td>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								
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<b>Did the author specify whether there will be any subgroup analysis?</b>	multiple-choice <table border="1"> <tr> <td>99</td><td>No - author did not mention or clarify whether there will be any subgroup analysis</td></tr> <tr> <td>0</td><td>Yes - author specified there will be NO subgroup analysis</td></tr> <tr> <td>1</td><td>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				
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<b>If so, summarise the basis of subgroup analyses</b> Examples: by type of intervention; by population; by type of control	text										
<b>Did the author specify whether there will be any sensitivity analysis?</b>	multiple-choice <table border="1"> <tr> <td>99</td><td>No - author did not mention or clarify whether there will be any sensitivity analysis</td></tr> <tr> <td>0</td><td>Yes - author specified there will be NO sensitivity analysis</td></tr> <tr> <td>1</td><td>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				
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<b>If so, summarise the basis of sensitivity analyses</b>	text										

Question	Options										
<p><b>Did the author specify whether there will be a control series?</b> Any of the following can be considered a control series:</p> <ul style="list-style-type: none"> <li>• location-based e.g. a control site that does not receive intervention</li> <li>• characteristic-based e.g. a cohort of a different age, a cohort without mental illness (for an intervention targeting mental illnesses)</li> <li>• behaviour-based e.g. a cohort who does not smoke (for an intervention targeting smoking)</li> <li>• historical cohort e.g. a cohort from the same period 1 year before the intervention cohort</li> <li>• control outcome e.g. an outcome that is not affected by the intervention</li> <li>• 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)</li> </ul>	<p>multiple-choice</p> <table border="1"> <tr> <td>99</td><td>No - author did not mention or clarify whether there will be a control series</td></tr> <tr> <td>0</td><td>Yes - author specified there will be NO control series</td></tr> <tr> <td>1</td><td>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				
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<p><b>Briefly describe the control series</b> Examples: type of control, how they are different from the intervention series</p>	<p>text</p>										
<p><b>If so, what was the method used to compare between the intervention and control series?</b></p>	<p>checkbox</p> <table border="1"> <tr> <td>99</td><td>Cannot be determined</td></tr> <tr> <td>0</td><td>Presenting the numerical results for 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 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]
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<b>Information from the results reports – Basic information</b>											
<b>Title of results report</b>	text										
<b>What is the name of the publishing journal?</b>	text										
<b>What is the source of funding?</b>	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>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]		
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<b>Briefly describe the intervention(s) or exposure(s) that constitute the interruption points.</b>	text												
<b>At which level did the interruption occur, or was delivered / implemented?</b> <ul style="list-style-type: none"> <li>Individual: The intervention is implemented in specific individuals without the intention to represent a geographical area.</li> <li>Unit-based or institutions: The intervention is implemented in one or more specific institutions, hospitals or departments within a hospital.</li> <li>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.</li> <li>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.</li> <li>Multinational: The intervention is implemented in multiple countries.</li> </ul>	multiple-choice <table border="1"> <tr><td>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>	99	Cannot be determined	1	Individual	2	Unit-based or institutional	3	Regional	4	National	5	Multinational
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<b>At which level was the effect of the interruption measured in this study?</b> <ul style="list-style-type: none"> <li>Individual: The intervention is implemented in specific individuals without the intention to represent a geographical area.</li> <li>Unit-based or institutions: The intervention is implemented in one or more specific institutions, hospitals or departments within a hospital.</li> <li>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.</li> </ul>	multiple-choice <table border="1"> <tr><td>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> </table>	99	Cannot be determined	1	Individual	2	Unit-based or institutional	3	Regional	4	National		
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5	Multinational						
<b>Is this an ITS study by design?</b> 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"> <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						
<b>Was the data collected retrospectively, prospectively, or both?</b> <ul style="list-style-type: none"> <li>Retrospective: Data was already available or collected at the time of the submission of the protocol</li> <li>Prospective: Data was collected after the submission of the protocol</li> </ul> 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"> <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						
<b>Information from the results reports – Study design and Analysis methods</b>							
<b>Summarise the primary research question(s) for the ITS analysis.</b> Examples <ul style="list-style-type: none"> <li>What are the effects of an antibiotic stewardship programme in a hospital aimed at reducing unnecessary antibiotic prescriptions, compared to no intervention?</li> <li>What are the effects of a family planning intervention on pregnant women in intervention suburbs, compared to matched control suburbs?</li> </ul>	text						
<b>What were the eligibility criteria for participants/sites to be included in the ITS?</b>	text						
<b>Describe the data source(s)</b> Examples: name of data source, how it was collected (e.g. EHR, survey, audit reports) and any other important info	text						

Question	Options						
<b>Was the intervention implemented at a specific time or over a period of time?</b>	multiple-choice <table border="1"> <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						
<b>Outline and describe all the segments in the time series</b> 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						
<b>What was number of segments?</b> Inclusive of intervention segment (S2) even when S2 has no data point	text						
<b>Could the number of data point per segment be determined?</b>	multiple-choice <table border="1"> <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						
<b>Could the start/end dates of each segment be determined?</b>	multiple-choice <table border="1"> <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
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Question	Options										
<p><b>What was the number of data points in the time series after aggregation?</b>  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><b>Describe the impact model used to fit the time series</b>  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><b>How was the intervention modelled?</b></p> <ul style="list-style-type: none"> <li>Not modelled at all: the data points associated with the intervention period are excluded from the analysis (no trend line]</li> </ul>	<p>multiple-choice</p> <table border="1"> <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
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<p><b>Outline and describe all the segments in the time series, as how they appear in the model</b>  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										



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>							
<b>What was the number of segments model?</b>	text						
<b>Could the number of data point per segment be determined from the model?</b>	multiple-choice <table border="1"> <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						
<b>Could the start/end dates of each segment be determined from the model?</b>	multiple-choice <table border="1"> <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
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<b>Which segments in the model were compared to address the primary research question (PRQ)?</b> Examples: <ul style="list-style-type: none"> <li>• The PRQ is comparing post- vs pre-interruption segments of the intervention series only → S3 vs S2; S2 vs S1</li> <li>• The PRQ is comparing the (implementation + post-implementation segments) vs pre-interruption segments of the intervention series only → (S2+S3) vs S1</li> <li>• The PRQ is comparing pre- vs post-interruption change btw intervention and control series → (S3 vs S1, intervention) vs (S3 vs S1, control)</li> </ul>	text						
<b>Did the authors provide the mathematical equation representing the model?</b>	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						

Question	Options																						
<p><b>Which effect estimate was calculated and reported?</b></p>	<p>checkbox</p> <table border="1"> <tr> <td data-bbox="1162 300 1211 347">0</td> <td data-bbox="1211 300 1816 347">No result</td> </tr> <tr> <td data-bbox="1162 347 1211 395">1</td> <td data-bbox="1211 347 1816 395">Level change</td> </tr> <tr> <td data-bbox="1162 395 1211 443">2</td> <td data-bbox="1211 395 1816 443">Slope change</td> </tr> <tr> <td data-bbox="1162 443 1211 531">3</td> <td data-bbox="1211 443 1816 531">Other known effect estimate from ITS analysis [elaborate]</td> </tr> <tr> <td data-bbox="1162 531 1211 619">4</td> <td data-bbox="1211 531 1816 619">Other unidentifiable effect estimate from ITS analysis [elaborate]</td> </tr> <tr> <td data-bbox="1162 619 1211 699">5</td> <td data-bbox="1211 619 1816 699">Other effect estimate from non-ITS analysis [elaborate]</td> </tr> <tr> <td data-bbox="1162 699 1211 746">99</td> <td data-bbox="1211 699 1816 746">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								
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<p><b>What was the time interval(s) that outcomes were aggregated at in the time series?</b></p>	<p>checkbox</p> <table border="1"> <tr> <td data-bbox="1162 802 1211 850">99</td> <td data-bbox="1211 802 1592 850">Cannot be determined</td> </tr> <tr> <td data-bbox="1162 850 1211 898">1</td> <td data-bbox="1211 850 1592 898">Every minute</td> </tr> <tr> <td data-bbox="1162 898 1211 946">2</td> <td data-bbox="1211 898 1592 946">Hourly</td> </tr> <tr> <td data-bbox="1162 946 1211 994">3</td> <td data-bbox="1211 946 1592 994">Daily</td> </tr> <tr> <td data-bbox="1162 994 1211 1042">4</td> <td data-bbox="1211 994 1592 1042">Weekly</td> </tr> <tr> <td data-bbox="1162 1042 1211 1090">5</td> <td data-bbox="1211 1042 1592 1090">Two-weekly</td> </tr> <tr> <td data-bbox="1162 1090 1211 1137">6</td> <td data-bbox="1211 1090 1592 1137">Monthly</td> </tr> <tr> <td data-bbox="1162 1137 1211 1185">7</td> <td data-bbox="1211 1137 1592 1185">Quarterly</td> </tr> <tr> <td data-bbox="1162 1185 1211 1233">8</td> <td data-bbox="1211 1185 1592 1233">Every 6 months</td> </tr> <tr> <td data-bbox="1162 1233 1211 1281">9</td> <td data-bbox="1211 1233 1592 1281">Annually</td> </tr> <tr> <td data-bbox="1162 1281 1211 1329">10</td> <td data-bbox="1211 1281 1592 1329">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-)
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<b>Describe the statistical methods used to analyse the ITS</b> 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																								
<b>What was the statistical method used to estimate the difference between the pre- and post-interruption segments?</b> 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"> <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]
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<b>Did the authors make any mention of autocorrelation?</b> Also known as "serial dependence", "serial correlation"	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																				
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<b>How did the authors decide whether to adjust for autocorrelation?</b>	checkbox																								

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<ul style="list-style-type: none"> <li>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 &amp; PACF, histograms) or statistical tests (e.g. Durbin-Watson, Cumby-Huizinga), and go with one model only, without fitting multiple models.</li> <li>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.</li> <li>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</li> <li>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.</li> </ul>	<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]
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<p><b>How was the presence of autocorrelation tested?</b></p> <p>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]
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<p><b>How was autocorrelation adjusted?</b></p>	checkbox												

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<b>Did the authors make any mention of seasonality?</b> Also known as "seasonal variation", "seasonal cycles", "periodic fluctuations" or phrases to that effect.	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								
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<b>How was seasonality tested and/or adjusted?</b>	checkbox <table border="1"> <tr> <td>99</td> <td>Cannot be determined - author did not describe clearly a method of dealing with seasonality</td> </tr> <tr> <td>0</td> <td>Not applicable - author specified seasonality was not adjusted</td> </tr> <tr> <td>1</td> <td>Determined whether seasonality is present, either visually or via a statistical test</td> </tr> <tr> <td>2</td> <td>Adjusted by adding a regression term for time (e.g. months, seasons) into model</td> </tr> <tr> <td>3</td> <td>Adjusted by fitting Fourier terms into model</td> </tr> <tr> <td>4</td> <td>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
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Did the authors make any mention of non-stationarity?	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								
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How were anomalous or outlying data points handled?	checkbox <table border="1"> <tr> <td>99</td> <td>Cannot be determined - author did not mention anomaly or outliers</td> </tr> </table>	99	Cannot be determined - author did not mention anomaly or outliers										
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Was there any subgroup analysis?	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								
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<b>If so, summarise the basis of subgroup analyses</b> Examples: by type of intervention; by population; by type of control	text												
Was there any sensitivity analysis?	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								
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0	No												
<b>If so, summarise the basis of sensitivity analyses</b> Examples: excluding x; restricted to y	text												
<b>Was there a control series?</b> Any of the following can be considered a control series: <ul style="list-style-type: none"> <li>location-based e.g. a control site that does not receive intervention</li> <li>characteristic-based e.g. a cohort of a different age, a cohort without mental illness (for an intervention targeting mental illnesses)</li> </ul>	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								
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0	No												

Question	Options												
<ul style="list-style-type: none"> <li>behaviour-based e.g. a cohort who does not smoke (for an intervention targeting smoking)</li> <li>historical cohort e.g. a cohort from the same period 1 year before the intervention cohort</li> <li>control outcome e.g. an outcome that is not affected by the intervention</li> <li>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)</li> </ul>													
<b>Briefly describe the control series</b> Examples: type of control, how they are different from the intervention series	text												
<b>If so, what was the method used to compare between the intervention and control series?</b>	multiple-choice <table border="1"> <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]		
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<b>Was there any discrepancy in the primary research question?</b>	multiple-choice <table border="1"> <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 &amp; result report</td></tr> <tr> <td>4</td><td>Same level of details &amp; matching</td></tr> <tr> <td>5</td><td>RR has more details &amp; matching</td></tr> <tr> <td>6</td><td>RR has fewer details &amp; 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
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## Additional File 6. Examples of important and non-important discrepancies

Item	Non-important discrepancies	Important discrepancies
<b>Primary research question</b>		
A. Primary research question	<ul style="list-style-type: none"> <li>The intervention was only described broadly in the protocol but was specifically defined in the results report.</li> </ul> <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"> <li>Discrepancy in any of the elements that made up the primary research question (participants, intervention, comparator)</li> </ul> <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>
<b>Data collection</b>		
B. Eligibility criteria	<ul style="list-style-type: none"> <li>The results report added details for the existing inclusion or exclusion criteria.</li> <li>Discrepancies were unlikely to result in a significant change in demographics of the recruited population</li> </ul> <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 &lt;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"> <li>The results report added or removed inclusion or exclusion criteria.</li> </ul> <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"> <li>Data source was officially renamed (but was the same source).</li> <li>Data source was broadly defined in the protocol and further specified in the results report.</li> </ul> <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"> <li>The results report added, removed or changed data sources.</li> </ul>

Item	Non-important discrepancies	Important discrepancies
<b>Design of time series</b>		
D. Overall length of the time series	<ul style="list-style-type: none"> <li>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</li> <li>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.</li> <li>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</li> </ul>	<ul style="list-style-type: none"> <li>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%)</li> </ul>
E. Start and end dates of each segment in the time series	<ul style="list-style-type: none"> <li>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).</li> <li>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.</li> </ul>	<ul style="list-style-type: none"> <li>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)</li> <li>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.</li> <li>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 inflexion 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.</li> </ul>
F. No. data points in each segment in the time series	<ul style="list-style-type: none"> <li>The number of discrepant data points was not substantive compared to the length of the corresponding time segment.</li> <li>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.</li> </ul>	<ul style="list-style-type: none"> <li>The number of discrepant data points was substantive compared to the length of the corresponding time segment.</li> <li>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.</li> </ul>

Item	Non-important discrepancies	Important discrepancies
<b>Model characteristics</b>		
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"> <li>The protocol outlined several potential time intervals for aggregation and the results report used one of those time intervals.</li> </ul>	<ul style="list-style-type: none"> <li>The results report aggregated using a different time interval.</li> <li>The protocol described an ITS but the results report described a simple pre-post analysis.</li> </ul>
J. How the interruption was modelled	<ul style="list-style-type: none"> <li>The protocol outlined several potential models and the results report used one of those models.</li> <li>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.</li> </ul>	<ul style="list-style-type: none"> <li>The results report modelled the interruption differently.</li> </ul> <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"> <li>The results report compared different pairs of segments.</li> </ul> <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"> <li>The results report introduced or omitted a control time series for comparison.</li> </ul>
L. Types of effect measures reported	Same rules as item J.	<ul style="list-style-type: none"> <li>The results reports added, removed or changed the effect measures reported.</li> </ul> <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"> <li>The model in the results report was different from the model in the protocol, resulting in a different parameter being generated and reported.</li> </ul> <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). (<i>group</i> refers to the intervention vs control group)</p> <ul style="list-style-type: none"> <li>The protocol described an ITS but the results report described a difference-in-difference analysis or simple pre-post analysis.</li> </ul>

Item	Non-important discrepancies	Important discrepancies
<b>Statistical analysis</b>		
M. ITS analysis method(s)	<ul style="list-style-type: none"> <li>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.</li> <li>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)</li> </ul>	<ul style="list-style-type: none"> <li>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</li> <li>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.</li> <li>The protocol described ITS analysis methods (e.g., segmented regression) but the results report described difference-in-difference analysis or simple pre-post analysis.</li> </ul>
N. Decision rule on whether to adjust for autocorrelation	<ul style="list-style-type: none"> <li>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.</li> </ul>	<ul style="list-style-type: none"> <li>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.</li> </ul>
O. Method(s) of testing for autocorrelation	<ul style="list-style-type: none"> <li>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.</li> </ul>	<ul style="list-style-type: none"> <li>The results report added or removed method(s). Example: (P) Durbin-Watson test; (RR) Visual inspection of residual, autocorrelation, and partial autocorrelation function plots</li> <li>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</li> </ul>
P. Method(s) of adjusting for autocorrelation	<ul style="list-style-type: none"> <li>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.</li> </ul>	<ul style="list-style-type: none"> <li>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.</li> <li>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).</li> </ul>

Item	Non-important discrepancies	Important discrepancies
Q. Method(s) of testing & adjusting for seasonality	<ul style="list-style-type: none"> <li>The protocol specified the method and the results report elaborated on the details of the method.</li> <li>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).</li> </ul> <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"> <li>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.</li> <li>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.</li> </ul>
R. Method(s) of testing & adjusting for non-stationarity	<ul style="list-style-type: none"> <li>The protocol specified the method and the results report elaborated on the details of the method.</li> <li>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).</li> </ul>	<ul style="list-style-type: none"> <li>The results report added or removed method(s), or used a different method.</li> <li>The results report used the same general method but used different parameters that could have produced different results.</li> </ul>
S. Presence and type of control series	<ul style="list-style-type: none"> <li>Both the protocol and results report stated there was a control time series, but the details of the control varied.</li> </ul> <p>Examples: different locations for control sites; different control outcomes.</p>	<ul style="list-style-type: none"> <li>The protocol stated there was no control time series and the results report used a control time series, or vice versa.</li> </ul>
T. Method(s) of comparing intervention and control series	<ul style="list-style-type: none"> <li>The protocol specified the method and the results report elaborated on the details of the method.</li> </ul>	<ul style="list-style-type: none"> <li>The results report added or removed method(s), or used a different method.</li> </ul>

*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)
<b>Characteristics of the time series</b>		
<b>No. data points in the overall time series, median (IQR)</b>	36 (26 to 58)	36 (24 to 70)
<b>No. segments in the time series, median (IQR)</b>	3 (2 to 3)	3 (2 to 3)
Two segments	16 (36%)	21 (48%)
More than two segments	24 (55%)	22 (50%)
<b>The ITS model</b>		
<b>No. segments in the ITS model median (IQR)</b>	2 (2 to 3)	2 (2 to 3)
Two segments	20 (45%)	28 (64%)
More than two segments	12 (27%)	14 (32%)
<b>Time interval(s) at which outcome data was aggregated</b>		
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%)
<b>How the intervention was modelled</b>		
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%)
<b>Types of effect measures reported</b>		
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)
<b>Statistical analysis methods</b>		
<b>ITS analysis method(s)</b>		
ARIMA	5 (11%)	5 (11%)
Regression (linear, logistic, binominal, negative binomial or Poisson)	25 (57%)	29 (66%)
Generalized linear models	6 (14%)	8 (18%)
Other	3 (7%)	3 (7%)
<b>Acknowledgement of autocorrelation</b>	16 (36%)	22 (50%)
<b>Decision rule on whether to adjust for autocorrelation</b>		
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%)
<b>Method(s) to detect presence of autocorrelation</b>		
Statistical test (e.g. Durbin-Watson, Breusch-Godfrey, Ljung-Box, Cumby-Huizinga tests)	5/39 <sup>a</sup> (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%)
<b>Method(s) of adjusting for autocorrelation</b>		
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%)
<b>Acknowledgement of seasonality</b>	11 (25%)	15 (34%)
<b>Method(s) to detect &amp; adjust for seasonality</b>		
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%)
<b>Acknowledgement of non-stationarity</b>	2 (5%)	4 (9%)
<b>Method(s) to detect &amp; adjust for non-stationarity</b>		
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%)
<b>Presence and type of control series</b>		
Control series was used	18 (41%)	18 (41%)
Control series was not used	11 (25%)	26 (59%)
<b>Method(s) of comparing intervention and control series</b>		
Presenting the control series independently, without comparing to the intervention series	2/18 <sup>b</sup> (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.*

<sup>a</sup> *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.*

<sup>b</sup> *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

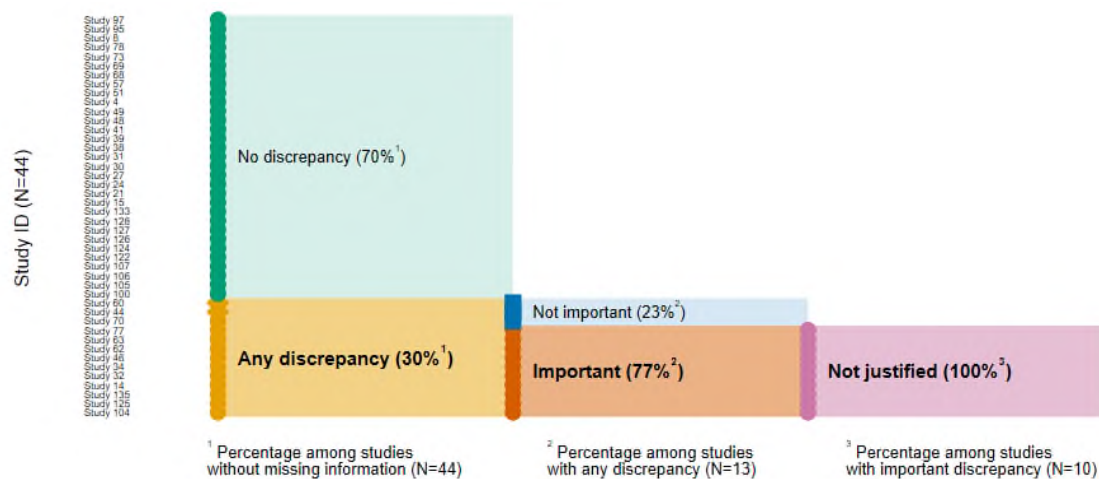
Justification provided for discrepancy	No. studies with this justification	No. studies where this item had a discrepancy that was justified with this justification								
		Overall length of time series	Start/end date of segments	No. data points of segments	Start/end date of segments model	No. data 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.

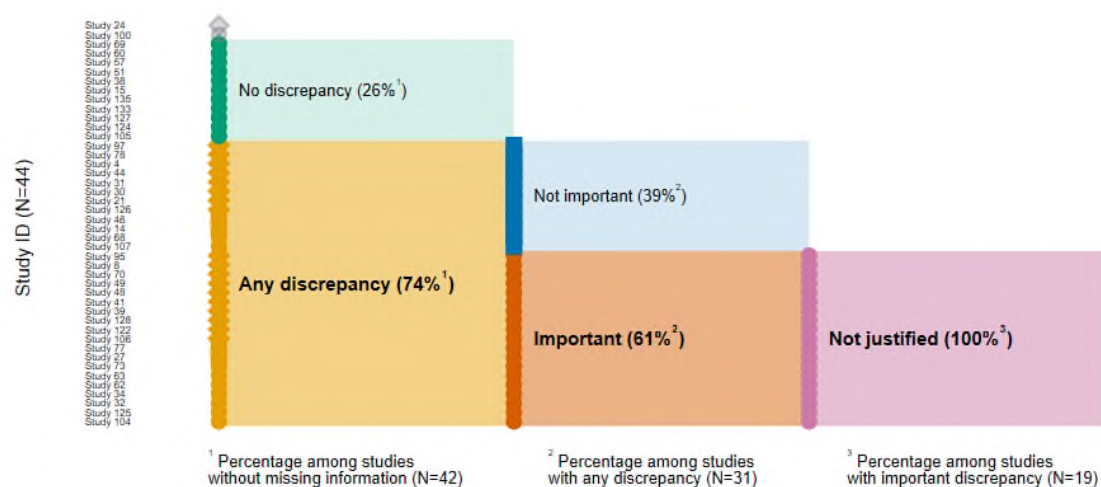
## Additional File 9. Frequency of discrepancies by reporting item

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

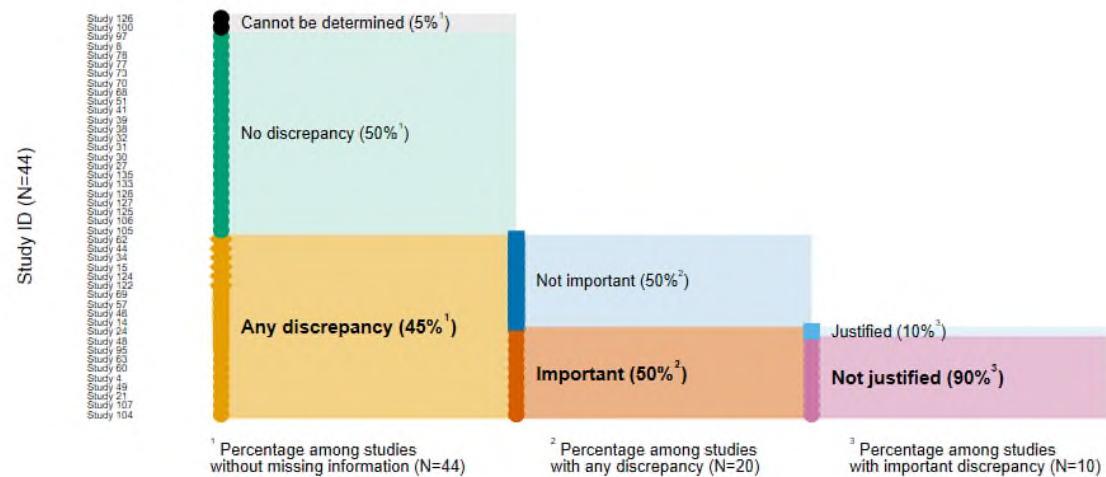
##### Importance of discrepancy

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

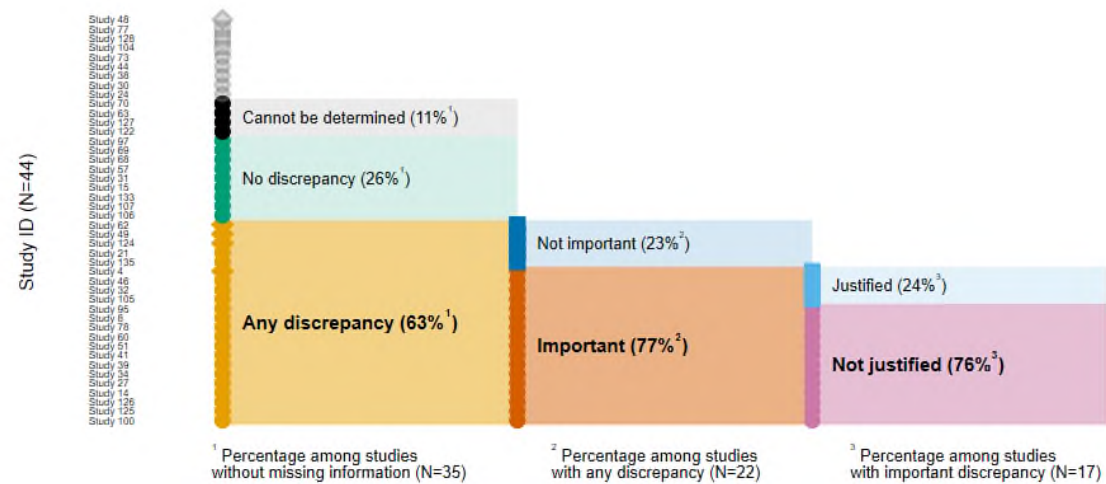
##### Justification for discrepancy

- 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

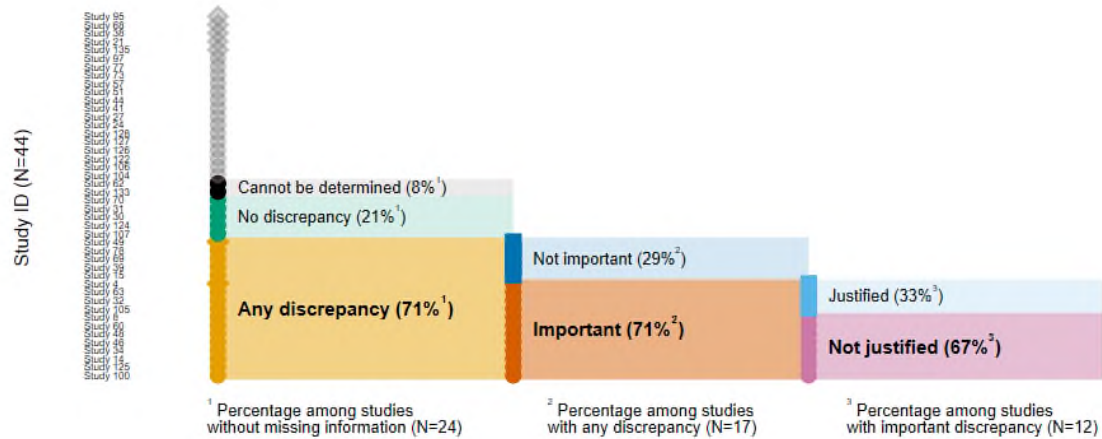
#### Importance of discrepancy

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

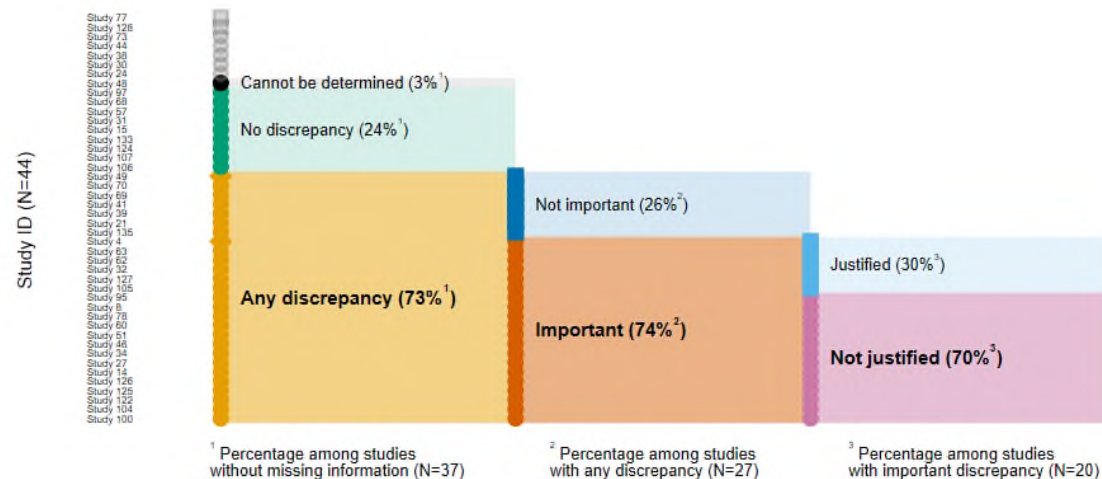
#### Justification for discrepancy

- 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

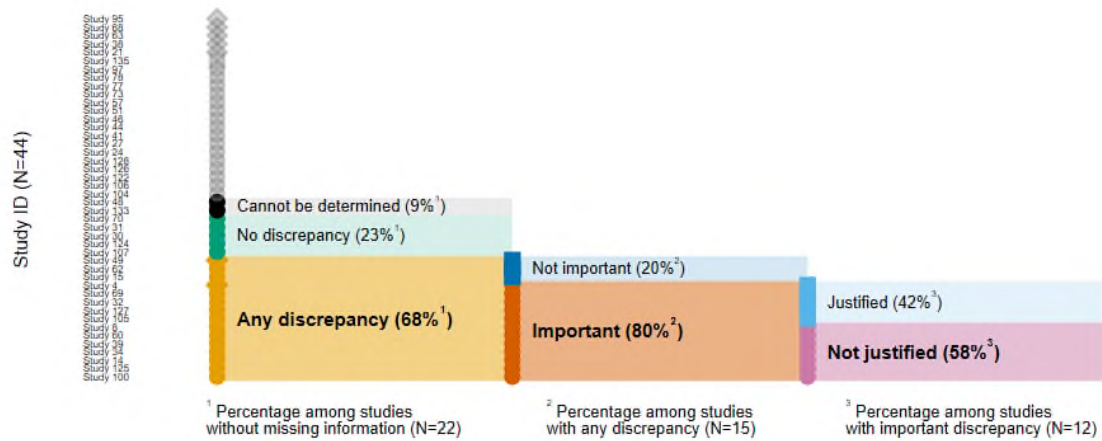
- Potential to significantly impact results
- No significant impact on results

#### Justification for discrepancy

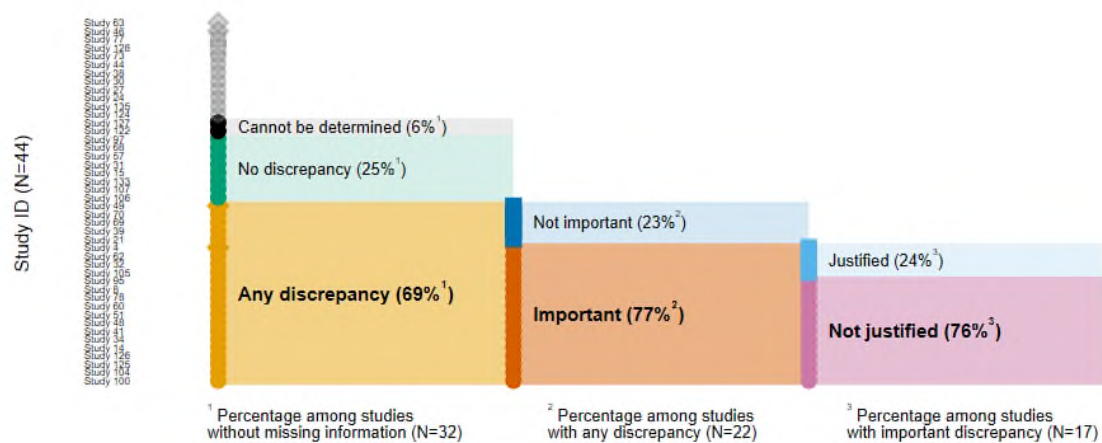
- Justification not provided
- Justification provided



## 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

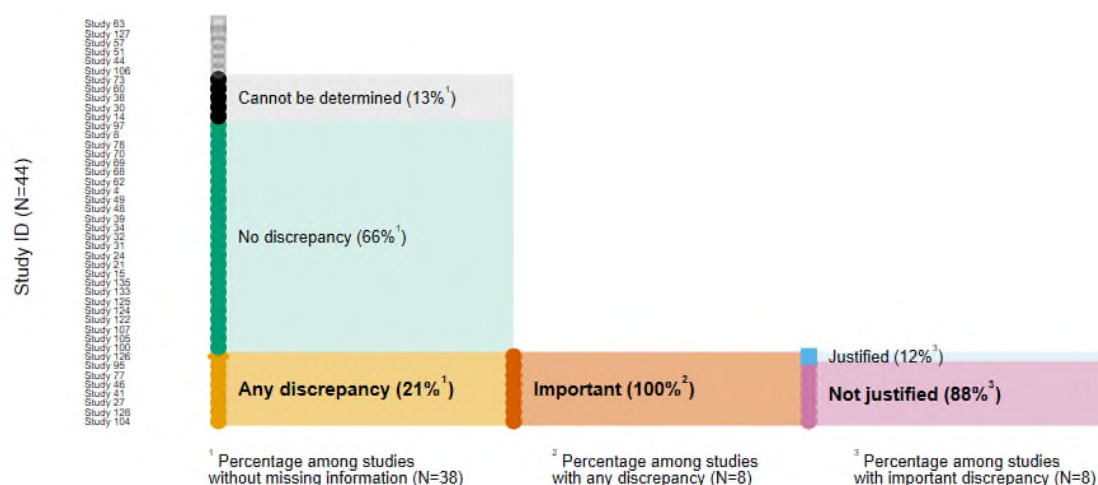
#### Importance of discrepancy

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

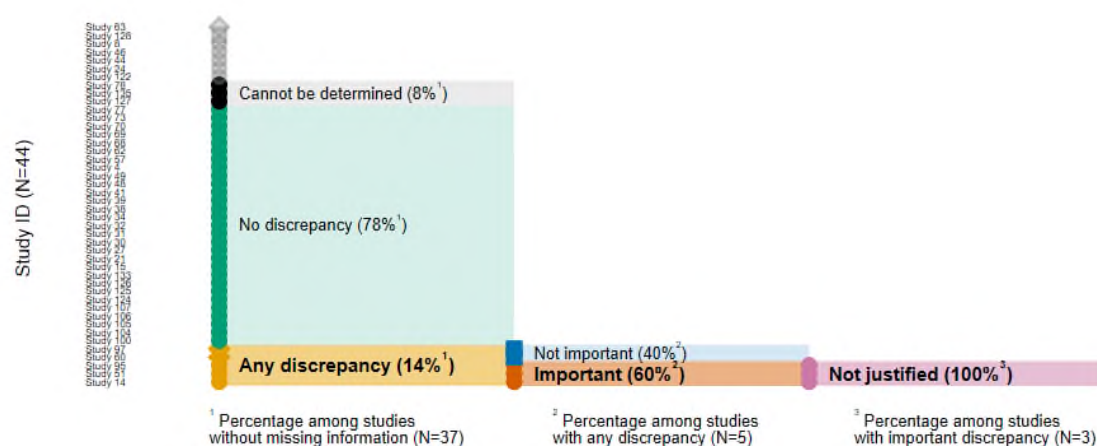
#### Justification for discrepancy

- 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

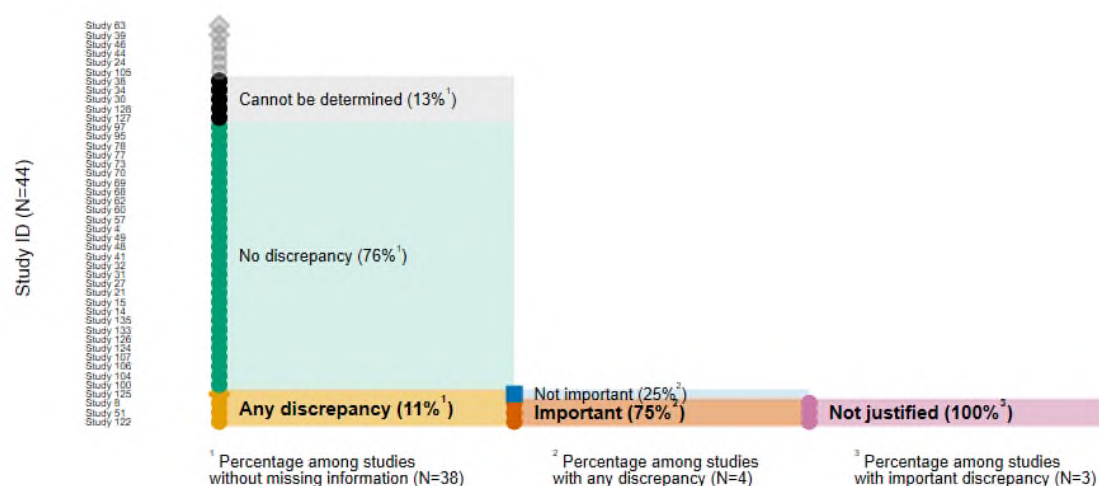
#### Importance of discrepancy

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

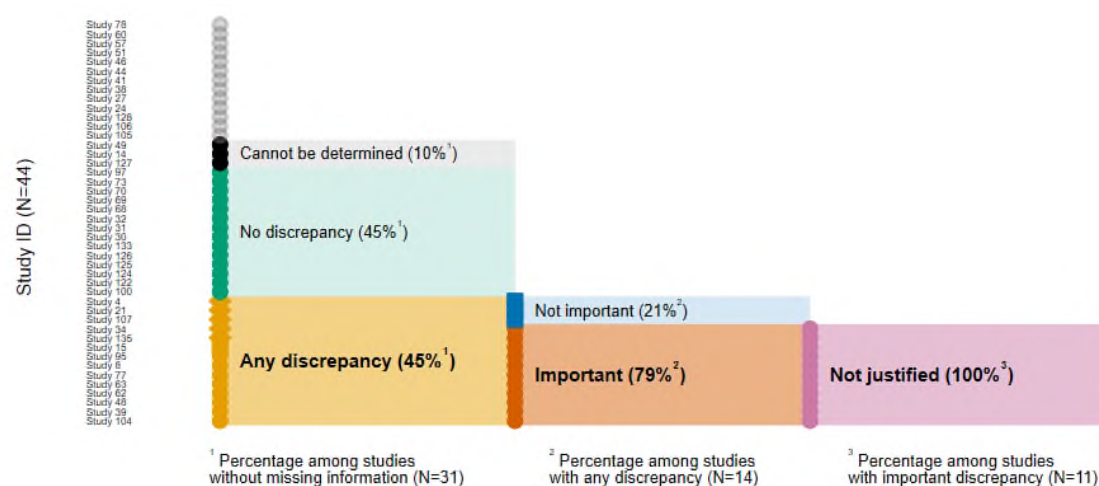
#### Justification for discrepancy

- 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

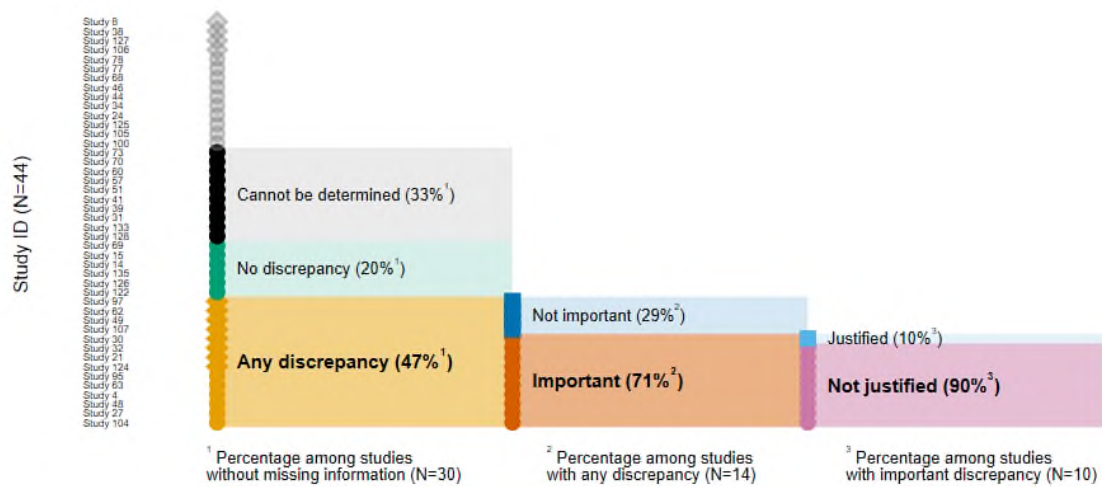
#### Importance of discrepancy

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

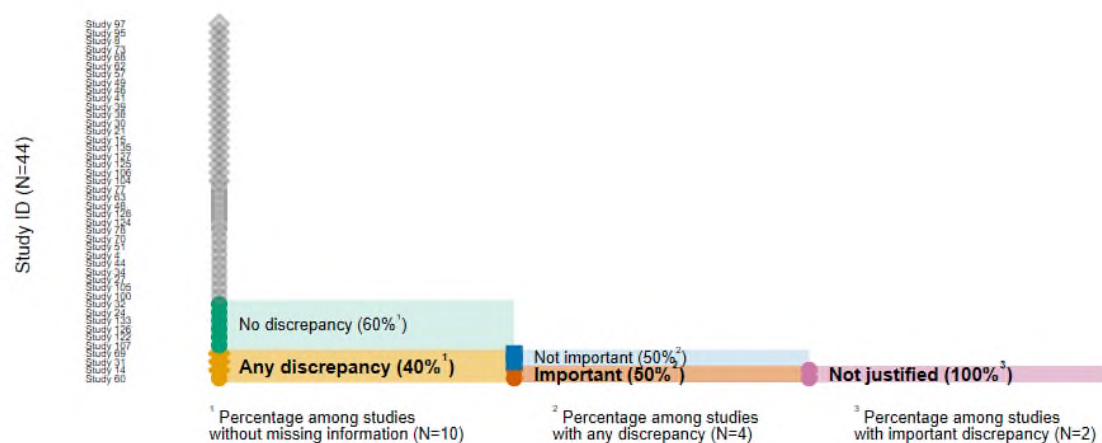
#### Justification for discrepancy

- 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

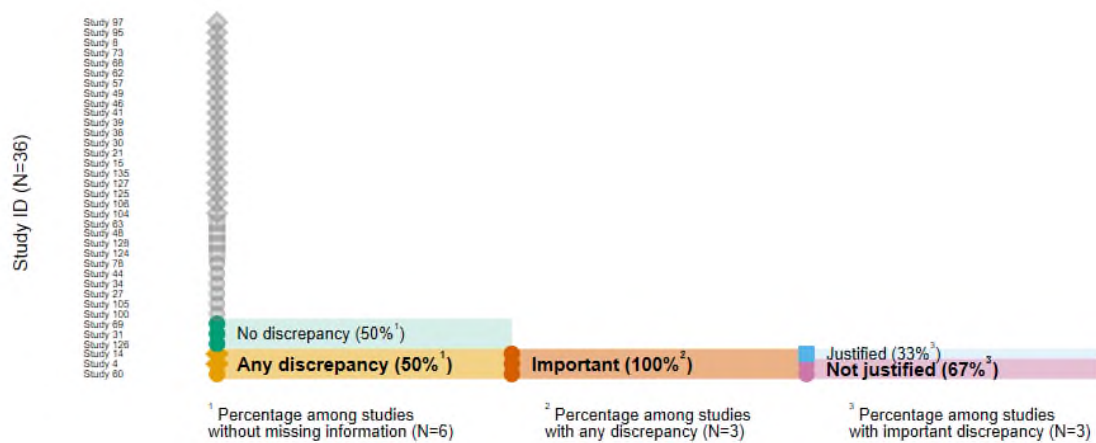
#### Importance of discrepancy

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

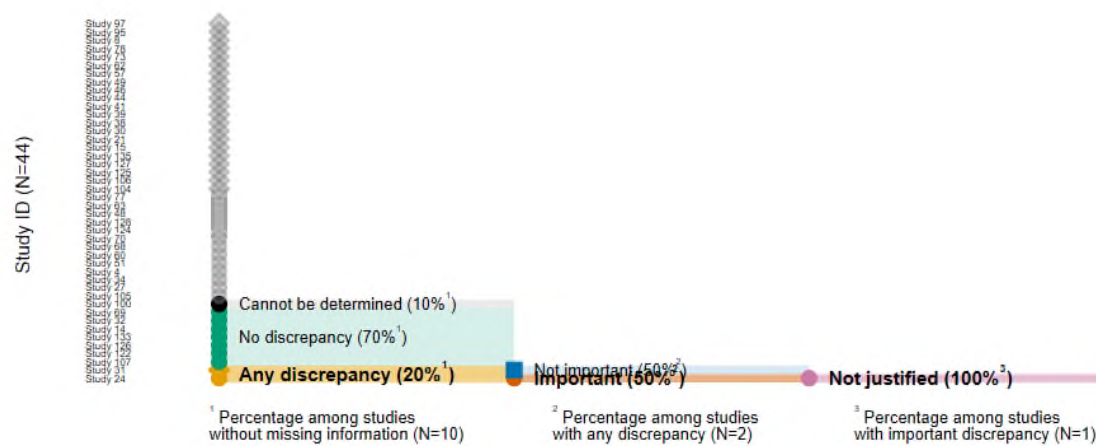
#### Justification for discrepancy

- Justification not provided
- Justification provided

## O. Method(s) of testing for autocorrelation



## P. Method(s) of adjusting for autocorrelation



### 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

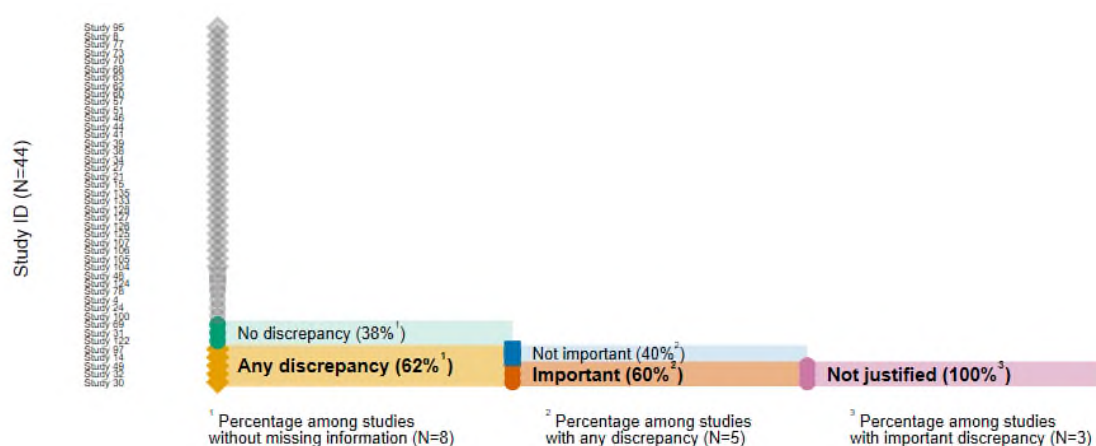
#### Importance of discrepancy

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

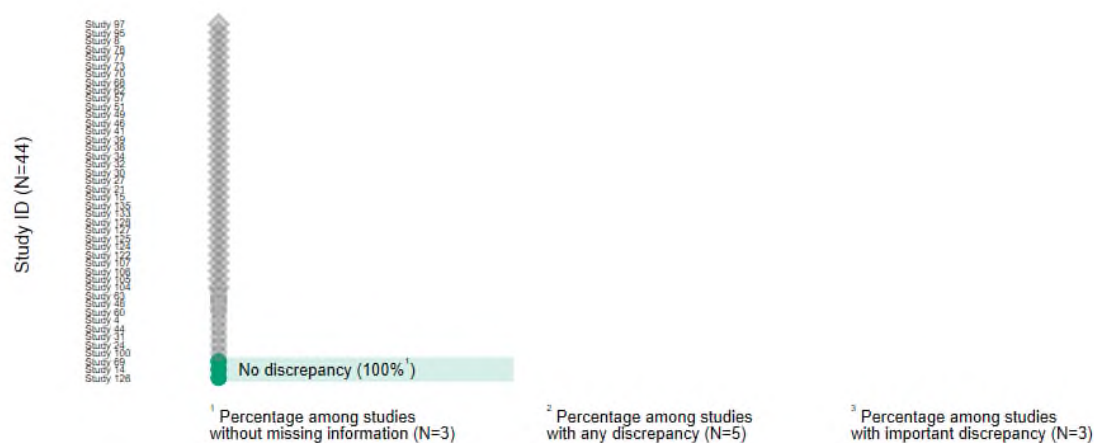
#### Justification for discrepancy

- Justification not provided
- Justification provided

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



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



### 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

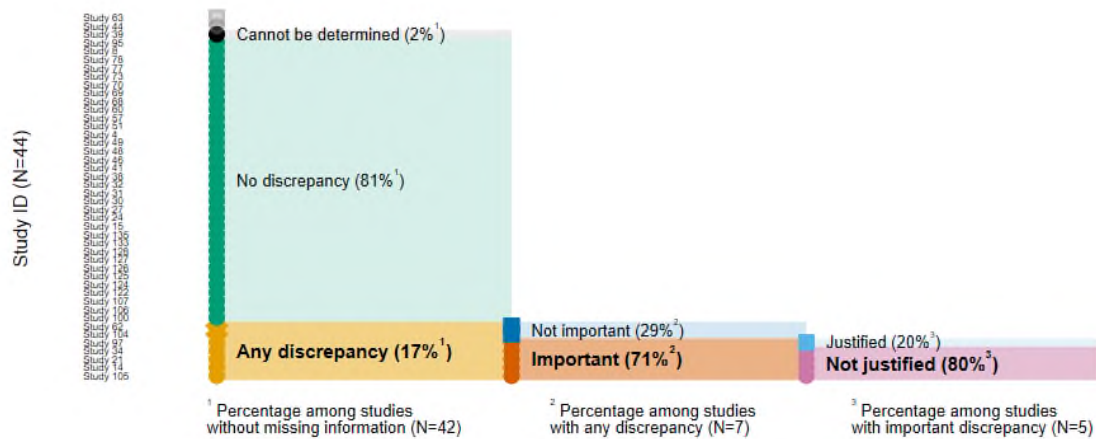
- Potential to significantly impact results
- No significant impact on results

#### Justification for discrepancy

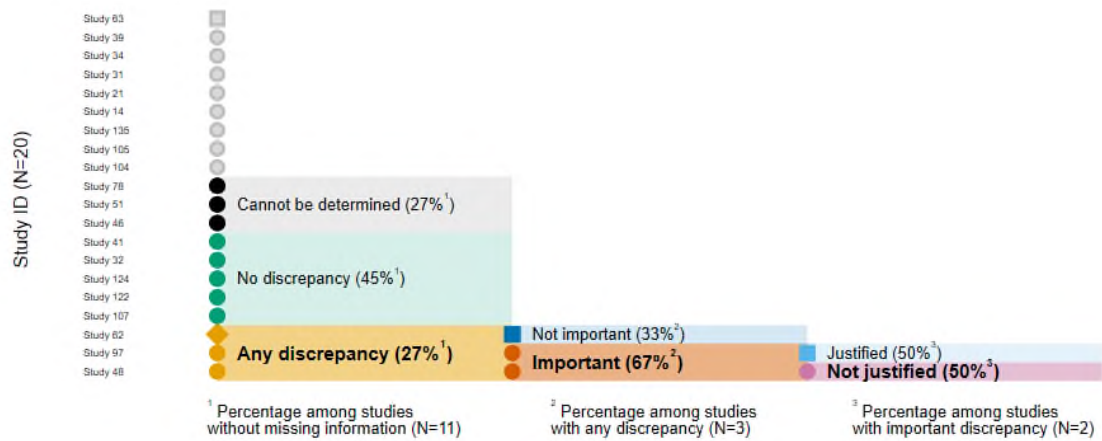
- Justification not provided
- Justification provided



## S. Presence and type of control series



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

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

Item	Discrepancy (%)	Potentially important discrepancy <sup>a</sup> (%)	Justification not provided for discrepancy (%)
<b>Overview of study design</b>			
<b>(A) Primary research question</b>			
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 <sup>b</sup> (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 <sup>c</sup>	0/44 (0%)	-	-
<b>(B) Eligibility criteria</b>			
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%)	-	-
<b>(C) Data sources</b>			
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%)	-	-
<b>Characteristics of the time series</b>			
<b>(D) Overall length of the time series</b>			
Missing information in protocol and/or results report	9/44 (20%)	-	-



Item	Discrepancy (%)	Potentially important discrepancy <sup>a</sup> (%)	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 <sup>a</sup> (%)	Justification not provided for discrepancy (%)
Cannot be determined	2/44 (5%)	-	-
<b>(H) No. data points in each segment in the ITS model</b>			
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%)	-	-
<b>(I) Time interval(s) at which outcome data was aggregated</b>			
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%)	-	-
<b>(J) How the interruption was modelled</b>			
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%)	-	-
<b>(K) Which segments were compared to address the primary research question</b>			
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 <sup>a</sup> (%)	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%)	-	-
<b>(L) Types of effect measure(s) reported</b>			
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%)	-	-
<b>Statistical analysis methods</b>			
<b>(M) ITS analysis method(s)</b>			
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%)	-	-
<b>(N) Decision rule on whether to adjust for autocorrelation</b>			
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%)	-	-
<b>(O) Method(s) of testing for autocorrelation</b>			

Item	Discrepancy (%)	Potentially important discrepancy <sup>a</sup> (%)	Justification not provided for discrepancy (%)
Missing information in protocol and/or results report	30/36 <sup>d</sup> (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%)	-	-
<b>(P) Method(s) of adjusting for autocorrelation</b>			
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%)	-	-
<b>(Q) Method(s) of testing &amp; adjusting for seasonality</b>			
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%)	-	-
<b>(R) Method(s) of testing &amp; adjusting for non-stationarity</b>			
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 <sup>a</sup> (%)	Justification not provided for discrepancy (%)
<b>(S) Presence and type of control series</b>			
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%)	-	-
<b>(T) Method(s) of comparing intervention and control series</b>			
Missing information in protocol and/or results report	9/20 <sup>e</sup> (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:**

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

<sup>b</sup> Denominator is the number of studies with important discrepancy between the protocol and the results report.

<sup>c</sup> "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.

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

<sup>e</sup> 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