Reporting characteristics of systematic review abstracts published in the proceedings of the SBPqO meeting

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Aim: This study aimed to assess the reporting characteristics of systematic review abstracts published in the proceedings of the Sociedade Brasileira de Pesquisa Odontológica (SBPqO) meeting. Methods: We selected abstracts published in the SBPqO meeting proceedings of 2019 and 2020, mentioning that a systematic review was conducted in the title, objective or methods sections. One researcher performed the screening and the data extraction after a pilot test training. The following data were extracted: affiliation of the primary author, dental specialization, the term “systematic review” mentioned in the title, reporting of the objective, reporting of eligibility criteria, reporting of information sources, reporting of the number of included studies and if a meta-analysis was performed. A descriptive analysis of the data was performed with data summarized as frequencies. Results: We included 235 abstracts. A total of 20 studies were from the Universidade de Uberlândia (8.5%), and the main specialization was Restorative and Esthetic Dentistry, with 47 studies (20%). Most of the studies mentioned the term “systematic review” in the title (n=219; 93.2%) and reported the objective (n=231; 98.3%). A great majority of studies did not report the eligibility criteria (n=97; 41.3%) or it was classified as unclear (n=96; 40.8%). The great majority of studies only reported the databases searched (n=103; 43.8%) or databases and date of search (n=74; 31.5%). Most of the studies reported the number of included studies (n=204; 86.8%). Conclusion: Based on this study, the reporting characteristics of systematic review abstracts published in the proceedings of the SBPqO meeting are satisfactory. However, there is room for improvement. Keywords: Dental research. Research report. Systematic reviews of topic.
Introduction

A systematic review is an important tool in health, and it is used for identifying, appraising, and integrating the results of a specific field\textsuperscript{12}. The number of systematic reviews in dentistry has been increasing in recent years, and the reporting quality is highly variable\textsuperscript{3-5}.

Much health research is presented at conferences and is publicly available as abstracts in the proceedings. The reporting quality of these abstracts is important because systematic reviewers will in some situations decide to include a study (or not) based on the conference abstract because the full article is not available. The reporting quality of conference abstracts was assessed in different topics in health, including sports injury prevention, oncology, urology, psychiatry, surgery, and oral health\textsuperscript{6-13}. However, there are no studies assessing abstracts of systematic reviews in dentistry published in the proceedings of conferences.

The Sociedade Brasileira de Pesquisa Odontológica (SBPqO) meeting is the most important conference in oral health research in Brazil, and it is the Brazilian division of the International Association for Dental Research. Since 2019, the SBPqO meeting has presented a special section dedicated to systematic review presentation, and all studies are published in the proceedings of the SBPqO meeting\textsuperscript{14,15}. Therefore, this study aimed to assess the reporting characteristics of systematic review abstracts published in the proceedings of the SBPqO meeting.

Material and Methods

Eligibility criteria and search

We included abstracts mentioning that a systematic review was conducted in the title, objective, or methods sections, regardless of the dental specialization discussed. We excluded studies which cited performing scoping reviews, overviews or assessing reporting quality of studies, or other methodological aspects characterizing the study as a meta-research.

We performed a search in the proceedings of 2019\textsuperscript{14} and 2020\textsuperscript{15} to identify abstracts based on the eligibility criteria cited above, examining only the Systematic Reviews section.

Screening

Two researchers initially performed a pilot screening test discussing the inclusion criteria using the 2018 proceedings of the SBPqO meeting. One of the researchers subsequently identified studies by reviewing the titles and abstracts through the pdf versions of the 2019 and 2020 proceedings available at www.sbpqo.org.br. In case of any doubts, the opinion of a second researcher was requested.

Data extraction

We created a standardized form using the Excel program (Microsoft Excel 2020). We initially performed a pilot data extraction through a discussion between two reviewers to consider all data for extraction. Data from each systematic review were
subsequently extracted by one reviewer. The following data were collected: affiliation of primary author, dental specialization (Public Health, Endodontics, Oral and Maxillofacial Pathology/stomatology, Radiology, Oral and Maxillofacial Surgery, Restorative and Esthetic Dentistry, Pediatric Dentistry, Periodontics, Orthodontics/Orthopedics, Implantology, and Others), the term “systematic review” mentioned in the title (Yes or No), reporting of the objective (Yes or No), reporting of eligibility criteria (Only inclusion criteria, Only exclusion criteria, Inclusion and exclusion criteria, Unclear, Not reported), reporting of information sources (Only databases, Only date of search, Databases and date of search, Unclear, Not reported), reporting of the number of included studies (Yes, No, Unclear) and if a meta-analysis was performed (Yes or No).

Data analysis

A descriptive analysis of the data was performed with the data summarized as frequencies using the Excel program (Microsoft Excel 2020).

Results

We identified 262 abstracts published in the proceedings of the SBPqO meeting and classified as “systematic review”. We included 235 abstracts after the screening based on the eligibility criteria (see Supplemental Material).

Table 1 presents the data related to the affiliation of the primary author and the dental specialization of the abstract. As a result, 20 studies were from the Universidade de Uberlândia (8.5%), followed by the Universidade de Santa Catarina (n=16;6.8%), while the Universidade Federal do Pará, Universidade Federal do Rio de Janeiro, Faculdade de Odontologia de Piracicaba (UNICAMP), and the Universidade Estadual Paulista (Araçatuba) presented 15 studies each (6.4%). The main specialization was Restorative and Esthetic Dentistry, numbering 47 studies (20%), followed by Oral and Maxillofacial Pathology/stomatology (n=41; 17.4%).

| Filiation of main author                              | N | %   |
|------------------------------------------------------|---|-----|
| Universidade Federal de Uberlândia                   | 20| 8.5%|
| Universidade Federal de Santa Catarina               | 16| 6.8%|
| Faculdade de Odontologia de Piracicaba (Unicamp)     | 15| 6.4%|
| Universidade Federal do Pará                         | 15| 6.4%|
| Universidade Federal do Rio de Janeiro               | 15| 6.4%|
| Universidade Estadual Paulista - Araçatuba           | 15| 6.4%|
| Universidade Federal de Minas Gerais                 | 10| 4.3%|
| Faculdade de Odontologia de São Leopoldo Mandic      | 9 | 3.8%|
| Universidade Federal do Rio Grande do Sul            | 8 | 3.4%|
| Universidade Federal Fluminense                      | 7 | 3.0%|
| Universidade Estadual da Paraíba                     | 7 | 3.0%|
| Universidade do Estado do Rio de Janeiro             | 6 | 2.55%|
| Universidade de Pernambuco                           | 5 | 2.13%|
| University Name                                      | Count | Percentage |
|------------------------------------------------------|-------|------------|
| Universidade de São Paulo - São Paulo                | 5     | 2.13%      |
| Universidade Federal Fluminense- Pólo Nova Friburgo  | 4     | 1.7%       |
| Universidade Positivo                                | 4     | 1.7%       |
| Universidade Federal da Paraíba                      | 4     | 1.7%       |
| Universidade de São Paulo- Bauru                     | 4     | 1.7%       |
| Pontifícia Universidade Católica de Minas Gerais     | 4     | 1.7%       |
| Universidade de São Paulo- Ribeirão Preto            | 4     | 1.7%       |
| Centro Universitário CHRISTUS                        | 3     | 1.3%       |
| Universidade Federal do Ceará                        | 3     | 1.3%       |
| Universidade de Cuiaba                               | 3     | 1.3%       |
| Universidade Federal de Juiz de Fora                 | 3     | 1.3%       |
| Universidade Estadual de Ponta Grossa                | 3     | 1.3%       |
| Universidade de Brasília                             | 3     | 1.3%       |
| Universidade Estadual do Pará                        | 2     | 0.8%       |
| Universidade do Oeste Paulista                       | 2     | 0.8%       |
| Instituto de Ciências e Tecnologia / ICT-UNESP-SJC   | 2     | 0.8%       |
| Centro de Estudos Superiores de Maceió                | 2     | 0.8%       |
| Universidade Federal de Pelotas                      | 2     | 0.8%       |
| Universidade Santo Amaro                             | 2     | 0.8%       |
| Faculdade Paulo Picanço                              | 2     | 0.8%       |
| Universidade Federal do Amazonas                     | 2     | 0.8%       |
| Universidade Ibirapuera                              | 2     | 0.8%       |
| Universidade Luterana do Brasil                      | 1     | 0.4%       |
| Universidade Cruzeiro do Sul                         | 1     | 0.4%       |
| Universidade Federal de Goiás                        | 1     | 0.4%       |
| Faculdade Federal da Paraíba                         | 1     | 0.4%       |
| Universidade Federal do Paraná                        | 1     | 0.4%       |
| Universidade Norte do Paraná                          | 1     | 0.4%       |
| Faculdade de Odontologia de Nova Friburgo            | 1     | 0.4%       |
| Pontifícia Universidade Católica do Rio Grande do Sul| 1     | 0.4%       |
| Faculdade Meridional                                 | 1     | 0.4%       |
| Universidade Federal de Pernambuco                   | 1     | 0.4%       |
| Universidade Federal do Maranhão                     | 1     | 0.4%       |
| Centro Universitário Santo Agostinho                 | 1     | 0.4%       |
| Universidade Iguacu                                  | 1     | 0.4%       |
| Universidade Estadual Paulista - Araraquara          | 1     | 0.4%       |
| Universidade Federal do Espírito Santo               | 1     | 0.4%       |
| Centro Universitário da Fundação Herminio Ometto     | 1     | 0.4%       |
| Escola Bahiana de Medicina e Saúde Pública            | 1     | 0.4%       |
| Universidade Estadual de Maringá                      | 1     | 0.4%       |
| Universidade Nove de Julho                            | 1     | 0.4%       |
| Pontifícia Universidade Católica do Paraná            | 1     | 0.4%       |
| Universidade de Taubaté                               | 1     | 0.4%       |

Continue
Figure 1 presents the reporting characteristics of the included abstracts. Most of studies mentioned the term “systematic review” in the title (n=219; 93.2%) and reported the objective (n=231; 98.3%). A great majority of studies did not report the eligibility criteria (n=97; 41.3%) or it was classified as unclear (n=96; 40.8%). In addi-
tion, the great majority of studies only reported the databases searched (n=103; 43.8%) or databases and date of search (n=74; 31.5%). Most of the studies reported the number of included studies (n=204; 86.8%), and most of the studies performed a meta-analysis (n=131; 55.7%).

Discussion

This is the first study in dentistry to assess the reporting characteristics of systematic review abstracts published in proceedings of conferences. Our results demonstrated that most of the aspects evaluated are well-reported, and we believe that results could be related to the fact that the conference abstracts included were peer-reviewed by experienced reviewers before the publication of conference proceedings. Also, our results are significant because the abstract could become a pivotal element to support clinical decision-making in some situations, as highlighted by Johnson et al. (2013)\(^\text{16}\).

However, most studies did not report the eligibility criteria, or it was classified as unclear. This fact could be related to the limited number of words to write the abstract. Details about what evidence was eligible or ineligible are important to the readers to comprehend the review scope. One of the possibilities to report the eligibility criteria is to use the PICO framework highlighting the Population, Intervention, Comparator, and Outcome included in the review\(^\text{17}\).

A significant number of systematic review abstracts (n=235) were presented in the SBPqO meeting since establishing a special section for this type of study. Three aspects could be involved in this result: 1) Bassani et al. (2019)\(^\text{3}\) demonstrated that Brazil is one of the countries that publish the most systematic reviews in dentistry; 2) Dotto et al. (2020)\(^\text{18}\) showed that systematic reviews are well accepted as a Master’s or PhD thesis by Brazilian graduate programs in dentistry; and 3) Brazil has an upper-middle-income economy and systematic reviews are cheaper than other methodologies such as randomized controlled trials resulting in a research methodology appropriate for this setting\(^\text{18}\).

When analyzing the primary authors’ affiliation, we can observe universities from different regions of Brazil which presented systematic reviews in the SBPqO meeting. The top university contributors could be the institutions where systematic reviews are well accepted in graduate programs, reflecting in their students presenting systematic reviews in that meeting. The main specializations reported were Restorative and Esthetic Dentistry (20%) and Oral and Maxillofacial Pathology/stomatology (17.4%). Bassani et al. (2019)\(^\text{3}\) found that most specialization reporting in systematic reviews in dentistry indexed within PubMed during 2017 was Oral and Maxillofacial Surgery, followed by Oral and Maxillofacial Pathology/stomatology.

The PRISMA 2020 statement\(^\text{17}\) was recently published, providing an updated reporting guidance for systematic review abstracts. The guidance includes a 12-item checklist specifying details about the systematic review title, background, methods, results, discussion, funding and registration. However, the number of words in abstracts could be limited in some conferences, jeopardizing the completeness of information reported. For example, the SBPqO recommendations about the number of words in
abstracts allow 1,470 characters, 120 in the title and 1,350 in the body of the text.\textsuperscript{19} Also, the recommendations of the International Association for Dental Research\textsuperscript{20} General Session for abstracts allow 300 words or less, which is better than SBPqO, but it is still limited. We believe that it would be better to expand the number of words accepted in abstracts, but there are costs involved in this process. Also, one crucial aspect is including the use of reporting guidelines in the instructions to authors to help in the abstract writing.

The most important limitation of our study is that we did not assess the abstracts published before the establishment of a systematic review section, and it is impossible to evaluate the impact of this establishment in terms of the number of systematic reviews abstracts and reporting quality, and we did not assess all items recommended by PRISMA for abstracts. We believe that future assessments should focus on spin strategies and the extent and level of spin involved in systematic reviews abstracts.

Thus, in light of the existence of a specific guideline for systematic review abstracts (PRISMA 2020)\textsuperscript{17}, the SBPqO, which is the most important conference in oral health research in Brazil, should endorse the use of this statement to improve the reporting of abstracts and encourage students and researchers to use it.

In conclusion, based on this study, the reporting characteristics of systematic review abstracts published in the proceedings of the SBPqO meeting are satisfactory. However, there is room for improvement.

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**Data availability**

Datasets related to this article will be available upon request to the corresponding author.

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**Supplemental material**

**List of numbers of included abstracts (2019).**

|   |   |   |
|---|---|---|
| 1-RS001 | 42-RS045 | 83-RS097 |
| 2-RS002 | 43-RS046 | 84-RS098 |
| 3-RS003 | 44-RS048 | 85-RS099 |
| 4-RS004 | 45-RS049 | 86-RS100 |
| 5-RS005 | 46-RS050 | 87-RS101 |
| 6-RS006 | 47-RS051 | 88-RS102 |
| 7-RS007 | 48-RS052 | 89-RS103 |
| 8-RS008 | 49-RS054 | 90-RS104 |
| 9-RS010 | 50-RS055 | 91-RS105 |
| 10-RS011 | 51-RS057 | 92-RS106 |
| 11-RS012 | 52-RS058 | 93-RS107 |
| 12-RS013 | 53-RS059 | 94-RS109 |
| 13-RS014 | 54-RS060 | 95-RS110 |
| 14-RS016 | 55-RS061 | 96-RS111 |
| 15-RS017 | 56-RS062 | 97-RS113 |
| 16-RS018 | 57-RS064 | 98-RS114 |
| 17-RS019 | 58-RS065 | 99-RS115 |
| 18-RS020 | 59-RS068 | 100-RS116 |
| 19-RS021 | 60-RS069 | 101-RS117 |
| 20-RS022 | 61-RS070 | 102-RS118 |
| 21-RS023 | 62-RS071 | 103-RS119 |
| 22-RS024 | 63-RS072 | 104-RS121 |
| 23-RS025 | 64-RS073 | 105-RS122 |
| 24-RS026 | 65-RS075 | 106-RS123 |
| 25-RS027 | 66-RS076 | 107-RS124 |
| 26-RS028 | 67-RS077 | 108-RS126 |
| 27-RS029 | 68-RS078 | 109-RS128 |
| 28-RS030 | 69-RS079 | 110-RS129 |
| 29-RS031 | 70-RS082 | 111-RS130 |
| 30-RS032 | 71-RS083 | 112-RS131 |
| 31-RS033 | 72-RS084 | 113-RS132 |
| 32-RS034 | 73-RS085 | 114-RS134 |
| 33-RS035 | 74-RS086 | 115-RS135 |
| 34-RS036 | 75-RS087 | 116-RS136 |
| 35-RS037 | 76-RS088 | 117-RS137 |
| 36-RS038 | 77-RS090 | 118-RS138 |
| 37-RS040 | 78-RS091 | 119-RS139 |
| 38-RS041 | 79-RS092 | 120-RS140 |
| 39-RS042 | 80-RS093 | 121-RS142 |
| 40-RS043 | 81-RS094 |   |
| 41-RS044 | 82-RS096 |   |
List of numbers of included abstracts (2020).

| Abstract Number | Abstract Number | Abstract Number |
|-----------------|-----------------|-----------------|
| 122-RS001       | 160-RS041       | 198-RS081       |
| 123-RS002       | 161-RS043       | 199-RS082       |
| 124-RS003       | 162-RS044       | 200-RS083       |
| 125-RS004       | 163-RS045       | 201-RS084       |
| 126-RS005       | 164-RS046       | 202-RS085       |
| 127-RS006       | 165-RS048       | 203-RS086       |
| 128-RS007       | 166-RS049       | 204-RS087       |
| 129-RS008       | 167-RS050       | 205-RS088       |
| 130-RS009       | 168-RS051       | 206-RS089       |
| 131-RS010       | 169-RS052       | 207-RS090       |
| 132-RS012       | 170-RS053       | 208-RS091       |
| 133-RS013       | 171-RS054       | 209-RS092       |
| 134-RS014       | 172-RS055       | 210-RS093       |
| 135-RS015       | 173-RS056       | 211-RS094       |
| 136-RS016       | 174-RS057       | 212-RS095       |
| 137-RS017       | 175-RS058       | 213-RS096       |
| 138-RS018       | 176-RS059       | 214-RS097       |
| 139-RS019       | 177-RS060       | 215-RS098       |
| 140-RS020       | 178-RS061       | 216-RS099       |
| 141-RS021       | 179-RS062       | 217-RS100       |
| 142-RS023       | 180-RS063       | 218-RS101       |
| 143-RS024       | 181-RS064       | 219-RS102       |
| 144-RS025       | 182-RS065       | 220-RS103       |
| 145-RS026       | 183-RS066       | 221-RS104       |
| 146-RS027       | 184-RS067       | 222-RS105       |
| 147-RS028       | 185-RS068       | 223-RS107       |
| 148-RS029       | 186-RS069       | 224-RS108       |
| 149-RS030       | 187-RS070       | 225-RS109       |
| 150-RS031       | 188-RS071       | 226-RS111       |
| 151-RS032       | 189-RS072       | 227-RS112       |
| 152-RS033       | 190-RS073       | 228-RS113       |
| 153-RS034       | 191-RS074       | 229-RS114       |
| 154-RS035       | 192-RS075       | 230-RS115       |
| 155-RS036       | 193-RS076       | 231-RS116       |
| 156-RS037       | 194-RS077       | 232-RS117       |
| 157-RS038       | 195-RS078       | 233-RS118       |
| 158-RS039       | 196-RS079       | 234-RS119       |
| 159-RS040       | 197-RS080       | 235-RS120       |
### Characteristics of each abstract included.

| Author/Year                      | Systematic review mentioned in the title | Objective reported | Eligibility criteria reported | Reporting of information sources | Number of included studies | Meta-analysis conducted |
|---------------------------------|------------------------------------------|--------------------|-------------------------------|----------------------------------|----------------------------|-------------------------|
| Nunes et al., 2019             | Yes                                      | Yes                | Not reported                  | Only databases                   | Yes                        | Yes                     |
| Reis et al., 2019              | Yes                                      | Yes                | Only inclusion                | Only databases                   | Yes                        | No                      |
| Frazão et al., 2019            | Yes                                      | Yes                | Only inclusion                | Only databases                   | Yes                        | Yes                     |
| Granja et al., 2019            | Yes                                      | Yes                | Unclear                       | Unclear                          | Yes                        | Yes                     |
| Lacerda-Santos et al., 2019    | Yes                                      | Yes                | Unclear                       | Unclear                          | Yes                        | Yes                     |
| Paulo et al., 2019             | Yes                                      | Yes                | Not reported                  | Only databases                   | Yes                        | No                      |
| Pereira et al., 2019           | Yes                                      | Yes                | Not reported                  | Only databases                   | Yes                        | Yes                     |
| Cetira-Filho                   | Yes                                      | Yes                | Unclear                       | Only databases                   | Unclear                    | Yes                     |
| Novais et al., 2019            | Yes                                      | Yes                | Unclear                       | Unclear                          | Yes                        | Yes                     |
| Amaral et al., 2019            | Yes                                      | Yes                | Not reported                  | Only databases                   | Yes                        | No                      |
| Thuller et al., 2019           | Yes                                      | Yes                | Only exclusion                | Only databases                   | Yes                        | Yes                     |
| Falcão et al., 2019            | Yes                                      | Yes                | Unclear                       | Both                             | Yes                        | Yes                     |
| Barbosa et al., 2019           | Yes                                      | Yes                | Only inclusion                | Only databases                   | Yes                        | No                      |
| Stringhini-Junior et al., 2019 | Yes                                      | Yes                | Unclear                       | Both                             | Yes                        | Yes                     |
| Moraes et al., 2019            | Yes                                      | Yes                | Only inclusion                | Both                             | Yes                        | Yes                     |
| Alves et al., 2019             | Yes                                      | Yes                | Only inclusion                | Both                             | Yes                        | Yes                     |
| Basso et al., 2019             | Yes                                      | Yes                | Unclear                       | Only databases                   | Yes                        | Yes                     |
| Wembier et al., 2019           | Yes                                      | Yes                | Unclear                       | Only databases                   | Yes                        | Yes                     |
| Silva et al., 2019             | Yes                                      | Yes                | Unclear                       | Both                             | Yes                        | Yes                     |
| Bronzato et al., 2019          | Yes                                      | Yes                | Unclear                       | Only databases                   | Yes                        | Yes                     |
| Albuquerque et al., 2019       | Yes                                      | Yes                | Not reported                  | Both                             | Yes                        | No                      |
| Castro et al., 2019            | Yes                                      | Yes                | Unclear                       | Only databases                   | Yes                        | Yes                     |
| Pinto et al., 2019             | Yes                                      | Yes                | Unclear                       | Both                             | Yes                        | Yes                     |
| Scarsi et al., 2019            | Yes                                      | Yes                | Only inclusion                | Only databases                   | Yes                        | Yes                     |
| Campos et al., 2019            | Yes                                      | Yes                | Unclear                       | Only databases                   | Yes                        | Yes                     |
| Spinola et al., 2019           | Yes                                      | Yes                | Not reported                  | Only databases                   | Yes                        | No                      |
| Oliveira et al., 2019          | Yes                                      | Yes                | Not reported                  | Only databases                   | Yes                        | Yes                     |
| Terto et al., 2019             | Yes                                      | Yes                | Only exclusion                | Both                             | Yes                        | Yes                     |
| Castilho et al., 2019          | Yes                                      | Yes                | Unclear                       | Only databases                   | Yes                        | Yes                     |
| Lima et al., 2019              | Yes                                      | Yes                | Unclear                       | Unclear                          | No                         | Yes                     |
| Andrade et al., 2019           | Yes                                      | Yes                | Unclear                       | Only databases                   | Yes                        | Yes                     |
| Baroni et al., 2019            | Yes                                      | Yes                | Unclear                       | Only databases                   | Yes                        | No                      |
| Rende et al., 2019             | No                                       | Yes                | Unclear                       | Unclear                          | Yes                        | Yes                     |
| Guimaraes et al., 2019         | No                                       | Yes                | Not reported                  | Only databases                   | Yes                        | Yes                     |
| Fontes et al., 2019            | Yes                                      | Yes                | Unclear                       | Only databases                   | Yes                        | No                      |
| Dantas et al., 2019            | Yes                                      | Yes                | Only inclusion                | Both                             | Yes                        | Yes                     |

Continue
| Study                         | Inclusion | Exclusion | Reporting | Data Sources | Quality | Consistency |
|-------------------------------|-----------|-----------|-----------|--------------|---------|-------------|
| Milani et al., 2019          | Yes       | Yes       | Unclear   | Only databases | Unclear | Yes         |
| Bedran et al., 2019          | Yes       | Yes       | Not reported | Only databases | Yes     | Yes         |
| Cruz et al., 2019            | Yes       | Yes       | Not reported | Unclear | Yes     | Yes         |
| Ribeiro-Lages et al., 2019   | Yes       | Yes       | Not reported | Only databases | Yes     | Yes         |
| Mocchelini et al., 2019      | Yes       | Yes       | Not reported | Only databases | Yes     | Yes         |
| Masson et al., 2019          | Yes       | Yes       | Unclear   | Both         | Yes     | Yes         |
| Duarte et al., 2019          | Yes       | Yes       | Not reported | Only databases | Yes     | Yes         |
| Seabra et al., 2019          | Yes       | Yes       | Not reported | Both     | Yes     | Yes         |
| Nadelman et al., 2019        | Yes       | Yes       | Only inclusion | Only databases | Yes     | No          |
| Messignan et al., 2019       | Yes       | Yes       | Not reported | Only databases | Yes     | Yes         |
| Dantas et al., 2019          | Yes       | Yes       | Not reported | Unclear | No     | No          |
| Gonçalves et al., 2019       | No        | Yes       | Not reported | Only databases | Yes     | Yes         |
| Oliveira et al., 2019        | Yes       | Yes       | Both      | Both     | Yes     | No          |
| Bellini-Pereira et al., 2019 | Yes       | Yes       | Only inclusion | Both     | Yes     | Yes         |
| Prado et al., 2019           | Yes       | Yes       | Only inclusion | Only databases | Yes     | Yes         |
| Pinheiro et al., 2019        | Yes       | Yes       | Unclear   | Only databases | Yes     | No          |
| Cardoso et al., 2019         | Yes       | Yes       | Not reported | Both     | Yes     | Yes         |
| Farias Junior et al., 2019   | Yes       | Yes       | Unclear   | Both     | Yes     | No          |
| Silva et al., 2019           | Yes       | Yes       | Only inclusion | Both     | Yes     | No          |
| Silveira et al., 2019        | Yes       | Yes       | Unclear   | Unclear  | Yes     | No          |
| Nascimento et al., 2019      | Yes       | Yes       | Unclear   | Both     | Yes     | No          |
| Neves et al., 2019           | Yes       | Yes       | Unclear   | Not reported | Unclear | Yes         |
| Nunes et al., 2019           | Yes       | Yes       | Unclear   | Only databases | Unclear | No          |
| Lins et al., 2019            | No        | Yes       | Not reported | Only databases | Yes     | Yes         |
| Farias et al., 2019          | Yes       | Yes       | Unclear   | Only databases | Yes     | No          |
| Dietrich et al., 2019        | Yes       | Yes       | Unclear   | Both     | Yes     | No          |
| Polmann et al., 2019         | Yes       | Yes       | Not reported | Only databases | Yes     | No          |
| Maran et al., 2019           | Yes       | Yes       | Not reported | Only databases | Yes     | Yes         |
| Lima et al., 2019            | No        | Yes       | Unclear   | Both     | Yes     | No          |
| Martini et al., 2019         | Yes       | Yes       | Not reported | Only databases | Yes     | No          |
| Antonio et al., 2019         | Yes       | Yes       | Only inclusion | Only databases | Yes     | No          |
| Né et al., 2019              | Yes       | Yes       | Unclear   | Unclear  | Yes     | No          |
| Fidalgo et al., 2019         | Yes       | Yes       | Unclear   | Only databases | Yes     | No          |
| Nascimento et al., 2019      | No        | Yes       | Not reported | Only databases | Yes     | Yes         |
| Bacchin et al., 2019         | Yes       | Yes       | Not reported | Only databases | Yes     | No          |
| Roithmann et al., 2019       | Yes       | Yes       | Unclear   | Both     | Yes     | Yes         |
| Maroli et al., 2019          | Yes       | Yes       | Both      | Only databases | Yes     | No          |
| Carneiro-Campos et al., 2019 | Yes       | Yes       | Only inclusion | Both     | Unclear | Yes         |
| Brunetello et al., 2019      | Yes       | Yes       | Unclear   | Both     | Yes     | Yes         |

Continue
| Study                | Eligibility | Exclusion | Reporting | Search Strategy | Inclusion | Exclusion |
|---------------------|-------------|-----------|-----------|-----------------|-----------|-----------|
| Minatel et al., 2019 | Yes         | Yes       | Not reported | Only databases | Yes       | No        |
| Lemos et al., 2019  | Yes         | Yes       | Not reported | Unclear         | Yes       | Yes       |
| Silva et al., 2019  | Yes         | Yes       | Unclear    | Both            | Yes       | Yes       |
| Barcelos et al., 2019 | Yes         | Yes       | Only exclusion | Both         | Yes       | No        |
| Gomez et al., 2019  | Yes         | Yes       | Not reported | Both            | Yes       | No        |
| Magalhães et al., 2019 | Yes         | Yes       | Not reported | Only databases | Yes       | No        |
| Sarmento et al., 2019 | Yes         | Yes       | Unclear    | Both            | Yes       | No        |
| Barbosa et al., 2019 | Yes         | Yes       | Not reported | Unclear         | Yes       | Yes       |
| Lhano et al., 2019  | Yes         | Yes       | Unclear    | Only databases  | Unclear   | Yes       |
| Oliveira et al., 2019 | Yes         | Yes       | Not reported | Both            | Yes       | Yes       |
| Nascimento et al., 2019 | No          | Yes       | Not reported | Only databases | Yes       | Yes       |
| Oliveira et al., 2019 | Yes         | Yes       | Unclear    | Only databases  | Yes       | Yes       |
| Silva et al., 2019  | Yes         | Yes       | Both       | Only databases  | Yes       | Yes       |
| Dutra et al., 2019  | Yes         | Yes       | Not reported | Only databases | Unclear   | Yes       |
| Macedo-Filho et al., 2019 | Yes         | Yes       | Unclear    | Both            | Yes       | Yes       |
| Oliveira et al., 2019 | Yes         | Yes       | Not reported | Unclear         | Yes       | Yes       |
| Kammer et al., 2019 | Yes         | Yes       | Not reported | Unclear         | Yes       | Yes       |
| Berretta et al., 2019 | Yes         | Yes       | Only inclusion | Unclear        | Yes       | No        |
| Diniz et al., 2019  | Yes         | Yes       | Unclear    | Unclear         | Yes       | No        |
| Reis et al., 2019   | Yes         | Yes       | Unclear    | Unclear         | Yes       | No        |
| Silveira et al., 2019 | Yes         | Yes       | Only inclusion | Unclear       | Yes       | Yes       |
| Martins et al., 2019 | Yes         | Yes       | Not reported | Unclear         | Yes       | Yes       |
| Jerônimo et al., 2019 | Yes         | Yes       | Unclear    | Unclear         | Yes       | Yes       |
| Rosa et al., 2019   | Yes         | Yes       | Unclear    | Both            | Yes       | Yes       |
| Lago et al., 2019   | Yes         | Yes       | Unclear    | Both            | Yes       | Yes       |
| Haas et al., 2019   | No          | Unclear   | Unclear    | Only databases  | Yes       | Yes       |
| Melo et al., 2019   | Yes         | Yes       | Unclear    | Unclear         | Yes       | No        |
| Lavôr et al., 2019  | Yes         | Yes       | Unclear    | Unclear         | Yes       | No        |
| Oliveira et al., 2019 | Yes         | Yes       | Unclear    | Both            | Yes       | No        |
| Paulo et al., 2019  | Yes         | Yes       | Unclear    | Unclear         | Yes       | Yes       |
| Lisboa et al., 2019 | Yes         | Yes       | Not reported | Only databases | Yes       | No        |
| Martins et al., 2019 | Yes         | Yes       | Only inclusion | Only databases | Yes       | No        |
| Campos et al., 2019 | Yes         | Yes       | Not reported | Only databases | No        | No        |
| Rolim et al., 2019  | Yes         | Yes       | Unclear    | Both            | Yes       | Yes       |
| Silva et al., 2019  | Yes         | Yes       | Unclear    | Only databases  | Yes       | Yes       |
| Campos et al., 2019 | Yes         | Yes       | Not reported | Unclear         | Unclear   | No        |
| Souza et al., 2019  | Yes         | Yes       | Unclear    | Only databases  | Yes       | Yes       |
| Miranda et al., 2019 | Yes         | Yes       | Not reported | Only databases | Yes       | Yes       |
| Raymundo et al., 2019 | Yes         | Yes       | Not reported | Only databases | No        | Yes       |
| Caldas et al., 2019 | Yes         | Yes       | Not reported | Both            | Yes       | No        |
| Reference                     | Inclusion | Exclusion | Reporting | Search Strategy | Feedback | Reproducibility |
|-------------------------------|-----------|-----------|-----------|-----------------|----------|-----------------|
| Miranda et al., 2019         | Yes       | Yes       | Unclear   | Only databases  | Yes      | No              |
| Alverorega et al., 2019       | Yes       | Yes       | Not reported | Unclear       | Yes      | Yes             |
| Santos et al., 2019           | No        | Yes       | Not reported | Only databases | Yes      | No              |
| Rendohl et al., 2019          | Yes       | Yes       | Only inclusion | Both     | No       | Yes             |
| Limiário et al., 2019         | Yes       | Yes       | Not reported | Both         | Yes      | Yes             |
| Borges et al., 2019           | Yes       | Yes       | Not reported | Not reported | Yes      | Yes             |
| Reis et al., 2020             | Yes       | Yes       | Unclear   | Only databases | Yes      | No              |
| Gonçalves et al., 2020        | Yes       | Yes       | Not reported | Both         | Yes      | Yes             |
| Vidigal et al., 2020          | Yes       | Yes       | Not reported | Unclear     | Yes      | Yes             |
| Leal et al., 2020             | Yes       | Yes       | Not reported | Both         | Yes      | No              |
| Silva et al., 2020            | No        | Yes       | Unclear   | Both          | Yes      | No              |
| Rosatto et al., 2020          | Yes       | Yes       | Not reported | Unclear     | Yes      | No              |
| Sartamento et al., 2020       | Yes       | Yes       | Not reported | Unclear     | Yes      | No              |
| Matos et al., 2020            | Yes       | Yes       | Not reported | Unclear     | Yes      | No              |
| Gabriel et al., 2020          | Yes       | Yes       | Not reported | Unclear     | Yes      | Yes             |
| Dias-Junior et al., 2020      | Yes       | Yes       | Unclear   | Only databases | Yes      | Yes             |
| Nóbrega et al., 2020          | Yes       | Yes       | Unclear   | Only databases | Unclear | Yes             |
| Sponchiado-Júnior et al., 2020 | Yes   | Yes     | Unclear   | Only databases | Yes      | No              |
| Martins et al., 2020          | Yes       | Yes       | Unclear   | Only databases | Yes      | No              |
| Pirovani et al., 2020         | Yes       | Yes       | Unclear   | Both          | Yes      | No              |
| Feitosa et al., 2020          | Yes       | Yes       | Only inclusion | Only databases | Yes      | No              |
| Salomão et al., 2020          | Yes       | Yes       | Only inclusion | Only databases | Yes      | Yes             |
| Kwiatkowski et al., 2020      | Yes       | Yes       | Unclear   | Both          | Yes      | No              |
| Lopes et al., 2020            | Yes       | Yes       | Unclear   | Only databases | Yes      | No              |
| Soares et al., 2020           | Yes       | Yes       | Not reported | Only databases | Yes      | No              |
| Né et al., 2020               | Yes       | Yes       | Unclear   | Only databases | Yes      | Yes             |
| Carvalho et al., 2020         | Yes       | Yes       | Unclear   | Only databases | Yes      | No              |
| Araujo et al., 2020           | Yes       | Yes       | Not reported | Only databases | Yes      | No              |
| Silver et al., 2020           | Yes       | Yes       | Only inclusion | Only databases | Yes      | Yes             |
| Schoeffel et al., 2020        | Yes       | Yes       | Only inclusion | Unclear     | Yes      | Yes             |
| Muknickas et al., 2020        | Yes       | Yes       | Unclear   | Unclear      | Unclear  | No              |
| Rezende et al., 2020          | Yes       | Yes       | Unclear   | Both          | Yes      | No              |
| Oliveira et al., 2020         | Yes       | Yes       | Only inclusion | Both       | Yes      | Yes             |
| Cruz et al., 2020             | Yes       | Yes       | Not reported | Unclear     | Yes      | Yes             |
| Oliveira et al., 2020         | Yes       | Yes       | Both      | Both         | Yes      | No              |
| Martins et al., 2020          | Yes       | Yes       | Not reported | Only databases | Yes      | Yes             |
| Mocchelini et al., 2020       | Yes       | Yes       | Not reported | Only databases | Yes      | Yes             |
| Miyahira et al., 2020         | Yes       | Yes       | Unclear   | Only databases | Yes      | Yes             |
| Machado et al., 2020          | Yes       | Yes       | Only inclusion | Both       | Yes      | No              |
| Miranda et al., 2020          | Yes       | Yes       | Only inclusion | Both       | Yes      | No              |

Continue
| Study Authors                  | Inclusion Criteria | Exclusion Criteria | Data Sources   | Results Interpretation Criteria | Study Quality | Risk of Bias |
|--------------------------------|--------------------|--------------------|-----------------|-------------------------------|---------------|--------------|
| Soares et al., 2020          | Yes                | Yes                | Unclear         | Both                           | Yes           | No           |
| Pintor et al., 2020          | Yes                | Yes                | Only inclusion  | Both                           | Yes           | No           |
| Camatta et al., 2020         | Yes                | Yes                | Unclear         | Only databases                 | No            | Yes          |
| Sanglard et al., 2020        | Yes                | Yes                | Not reported    | Both                           | Yes           | No           |
| Haibara et al., 2020         | Yes                | Yes                | Unclear         | Both                           | Yes           | No           |
| Fontes et al., 2020          | Yes                | Yes                | Unclear         | Only databases                 | Yes           | No           |
| Latieri et al., 2020         | Yes                | Yes                | Unclear         | Both                           | Yes           | No           |
| Bonzanini et al., 2020       | Yes                | Yes                | Not reported    | Both                           | Yes           | Yes          |
| Soares et al., 2020          | Yes                | Yes                | Not reported    | Only databases                 | Yes           | Yes          |
| Neves et al., 2020           | Yes                | Yes                | Not reported    | Only databases                 | Yes           | No           |
| Inocêncio et al., 2020       | No                 | Yes                | Unclear         | Unclear                        | Unclear       | Yes          |
| Figueirêdo et al., 2020      | Yes                | Unclear            | Unclear         | Both                           | Unclear       | No           |
| Rodrigues et al., 2020       | Yes                | Yes                | Unclear         | Both                           | Unclear       | No           |
| Jácome-Santos et al., 2020   | Yes                | Yes                | Not reported    | Both                           | Yes           | No           |
| Sant’Anna et al., 2020       | Yes                | Yes                | Not reported    | Only databases                 | Yes           | Yes          |
| Mattos et al., 2020          | Yes                | Yes                | Unclear         | Unclear                        | Yes           | Yes          |
| Silveira-Júnior et al., 2020 | Yes                | Yes                | Not reported    | Only databases                 | Yes           | No           |
| Caetano et al., 2020         | Yes                | Yes                | Unclear         | Only databases                 | Yes           | No           |
| Figueirêdo et al., 2020      | Yes                | Yes                | Not reported    | Only databases                 | No            | Yes          |
| Naal et al., 2020            | Yes                | Yes                | Unclear         | Both                           | Yes           | No           |
| Tardelli et al., 2020        | Yes                | Yes                | Only inclusion  | Both                           | Unclear       | No           |
| Lopes et al., 2020           | Yes                | Yes                | Only inclusion  | Both                           | Unclear       | Yes          |
| Kunz et al., 2020            | No                 | Yes                | Unclear         | Only databases                 | Yes           | Yes          |
| Uehara et al., 2020          | Yes                | Yes                | Both            | Only databases                 | Yes           | No           |
| Limirio et al., 2020         | Yes                | Yes                | Not reported    | Both                           | Yes           | Yes          |
| Sanches et al., 2020         | Yes                | Yes                | Not reported    | Both                           | Yes           | Yes          |
| Veloso et al., 2020          | Yes                | Yes                | Only inclusion  | Only databases                 | Yes           | Yes          |
| Oliveira et al., 2020        | Yes                | Yes                | Only inclusion  | Unclear                        | Yes           | Yes          |
| Ortiz et al., 2020           | Yes                | Yes                | Only inclusion  | Unclear                        | Yes           | No           |
| Scherer et al., 2020         | Yes                | Yes                | Not reported    | Both                           | Yes           | Yes          |
| Andrade et al., 2020         | Yes                | Yes                | Unclear         | Only databases                 | Yes           | No           |
| Martini et al., 2020         | Yes                | Yes                | Not reported    | Only databases                 | Unclear       | Yes          |
| Valesan et al., 2020         | Yes                | Yes                | Unclear         | Unclear                        | Yes           | Yes          |
| Oliveira et al., 2020        | Yes                | Yes                | Not reported    | Unclear                        | Yes           | Yes          |
| Santos et al., 2020          | Yes                | Yes                | Not reported    | Only databases                 | Yes           | Yes          |
| Corso et al., 2020           | Yes                | Yes                | Not reported    | Only databases                 | Yes           | Yes          |
| Gama et al., 2020            | Yes                | Yes                | Unclear         | Unclear                        | Yes           | No           |
| Pinto et al., 2020           | Yes                | Yes                | Unclear         | Both                           | Yes           | No           |
| Parize et al., 2020          | Yes                | Yes                | Not reported    | Unclear                        | Yes           | No           |

Continue
| Study               | Report | Describe | Inclusion | Databases | Unclear | Data | Stakeholder | Methods |
|---------------------|--------|----------|-----------|-----------|---------|------|-------------|---------|
| Santos et al., 2020 | Yes    | Yes      | Unclear   | Unclear   | Yes     | No   |             |         |
| Camarini et al., 2020 | Yes  | Yes      | Not reported | Not reported | No     | No   |             |         |
| Sakuma et al., 2020  | Yes    | Yes      | Not reported | Unclear   | Yes     | Yes  |             |         |
| Silva et al., 2020   | Yes    | Yes      | Not reported | Only databases | No     | Yes  |             |         |
| Santaella et al., 2020 | Yes  | Yes      | Not reported | Only databases | Yes   | No   |             |         |
| Guerra et al., 2020  | Yes    | Yes      | Not reported | Not reported | Yes     | Yes  |             |         |
| Munhoz et al., 2020  | No     | Yes      | Not reported | Only date  | Yes     | No   |             |         |
| Ibarra et al., 2020  | Yes    | Yes      | Not reported | Not reported | Yes     | No   |             |         |
| Ribeiro et al., 2020 | Yes    | Yes      | Not reported | Both       | Yes     | No   |             |         |
| Galdino et al., 2020 | Yes    | Yes      | Not reported | Only databases | Yes   | Yes  |             |         |
| Magrin et al., 2020  | Yes    | Yes      | Unclear   | Unclear   | Yes     | No   |             |         |
| Souza et al., 2020   | Yes    | Yes      | Not reported | Both       | Yes     | Yes  |             |         |
| Borges et al., 2020  | Yes    | Yes      | Only inclusion | Both       | Yes     | Yes  |             |         |
| Magalhães et al., 2020 | Yes  | Yes      | Both      | Only databases | Yes   | No   |             |         |
| Martinho et al., 2020 | No    | Yes      | Not reported | Unclear   | Unclear | Yes  |             |         |
| Souza et al., 2020   | Yes    | Yes      | Unclear   | Both       | Yes     | Yes  |             |         |
| Resende et al., 2020 | Yes    | Yes      | Unclear   | Only databases | Yes   | Yes  |             |         |
| Langa et al., 2020   | Yes    | Yes      | Unclear   | Unclear   | Yes     | Yes  |             |         |
| Basso et al., 2020   | No     | Yes      | Unclear   | Only databases | Yes   | No   |             |         |
| Oliveira et al., 2020 | Yes  | Unclear | Not reported | Unclear   | Yes     | Yes  |             |         |
| Campos et al., 2020  | Yes    | Yes      | Not reported | Both       | Unclear | Yes  |             |         |
| Albuini et al., 2020 | Yes    | Yes      | Unclear   | Not reported | Yes     | No   |             |         |
| Koch et al., 2020    | Yes    | Yes      | Unclear   | Only databases | Yes   | No   |             |         |
| Soares et al., 2020  | Yes    | Yes      | Unclear   | Unclear   | Unclear | Yes  |             |         |
| Jakymiu et al., 2020 | Yes    | Unclear | Unclear   | Both       | Yes     | No   |             |         |
| Peinado et al., 2020 | Yes    | Yes      | Not reported | Only databases | Yes   | No   |             |         |
| Domingues et al., 2020 | Yes  | Yes      | Unclear   | Only databases | Yes   | No   |             |         |
| Barbosa et al., 2020 | Yes    | Yes      | Unclear   | Both       | Yes     | No   |             |         |
| Vieira et al., 2020  | Yes    | Yes      | Not reported | Unclear   | Yes     | Yes  |             |         |
| Santos et al., 2020  | Yes    | Yes      | Not reported | Only databases | Yes   | No   |             |         |
| Macedo et al., 2020  | Yes    | Yes      | Not reported | Unclear   | Yes     | Yes  |             |         |
| Dini et al., 2020    | Yes    | Yes      | Not reported | Not reported | Unclear | Yes  |             |         |
| Macena et al., 2020  | Yes    | Yes      | Not reported | Only databases | Yes   | Yes  |             |         |
| Spessato et al., 2020 | Yes  | Yes      | Not reported | Both       | Yes     | Yes  |             |         |
| Baccaro et al., 2020 | Yes    | Yes      | Only inclusion | Both       | Unclear | No   |             |         |
| Silva et al., 2020   | Yes    | Yes      | Not reported | Both       | Yes     | Yes  |             |         |
| Linhares et al., 2020 | Yes  | Yes      | Only inclusion | Only databases | No    | No   |             |         |
| Ribeiro et al., 2020 | Yes    | Yes      | Not reported | Only databases | Yes   | No   |             |         |
| Bezerra et al., 2020 | Yes    | Yes      | Not reported | Unclear   | Yes     | Yes  |             |         |
| Dias et al., 2020    | No     | Yes      | Not reported | Both       | Yes     | Yes  |             |         |