**CENTRO DE ENSINO SUPERIOR E DESENVOLVIMENTO**

**CENTRO UNIVERSITÁRIO UNIFACISA**

**FACULDADE DE CIEÊNCIAS MÉDICAS DE CAMPINA GRANDE**

**LITERATURE REVIEW PROTOCOL (INTEGRATIVE OR SYSTEMATIC)**

**Authors:**

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| **Type of revision: ( X ) Integrative ( ) Systematic** | | | |
| **Background: R**ecent media reports have suggested that sudden onset of anosmia in the absence of nasal obstruction or underlying respiratory disease may be a clinical feature of Covid-19. | | | |
| **Research question:** Is there evidence of the association between olfactory symptoms and SARS-CoV-2 infection? | | | |
| **Aim:** To analyze the association between anosmia and COVID-19 and to sumarize the possible mechanisms involved. | | | |
| **PICOS Strategy** | | | |
| P – **Patients infected by the SARS-CoV-2** | | | |
| I – **Not applicable** | | | |
| C – **Not applicable** | | | |
| O – **Association between COVID-19 and anosmia** | | | |
| S – **Literature reviews, observational studies, case reports and case series.** | | | |
|  | | | |
| **Descriptors definition:** | | | |
| Keywords | | Correspondent MeSH terms | |
|  | |  | |
| Covid-19 | | Coronavirus Infections | |
| Anosmia | | Olfaction Disorders | |
| Dysosmia | | Olfaction Disorders | |
| Neurologic Symptoms | | Neurologic Manifestations | |
|  | |  | |
| **Descriptors combinations** | | | |
| Coronavirus Infections | AND | | Olfaction Disorders |
| OR | | | |
| Coronavirus Infections | AND | | Neurologic Manifestations |
| OR | | | |
|  | AND | |  |
| Boolean operators:   * AND * OR * AND NOT | | | |
| **Definition of the search strategy:**   * Study search period? 05/09/2020 to 05/21/2020; * Researchers who will search for articles in the databases followed by reading the title and abstract: Mariana Almeida Morais and Wagner José Raia Neri; * Complete reading of pre-selected articles by two independent reviewers. In case of doubt, a third reviewer determines the inclusion or exclusion, based on the simple majority of votes. * Reading the full text of the included articles. | | | |
| **Inclusion criteria:**   * Language of studies: Portuguese, English and Spanish. * Time of publication: Studies published between 01/01/2020 and 21/05/2020; * Articles published in indexed magazines; * Articles related to the theme of the study. * Observational studies, literature reviews, reports and case series. | | | |
| **Exclusion criteria:**   * Duplicate studies; * Studies that do not answer the research question ; * Studies published prior to 2020; * Studies with viruses other than SARS-CoV-2; * Theses and dissertations; * Studies in languages ​​other than Portuguese, English and Spanish; * Book chapters; * Annals of congresses or conferences; * Articles from encyclopedias | | | |
| **Definition of databases:** | | | |
| * Pubmed * SciELO * LILACS * Cochrane Library * Science Direct | | | |
| **Data collection** - The following data will be extracted from a spreadsheet built in Microsoft Excel or Google forms: | | | |
| *Variável* | | *Padronização* | |
| Authors | | HUMMEL et al. | |
| Month, Year of publication | | May, 2020 | |
| Idiom | | English | |
| Journsl | | Journal of the American Medical Association | |
| Country | | Germany  In case of a multicenter study, follow the example bellow:  Ex.2: Germany, Belgium, Poland | |
| Aim | | Describe the objective as found in the introduction. | |
| Institution where the study was conducted | | Ex. 1: TU Dresden  In case of a multicenter study, follow the example bellow:  TU Dresden, UCLA, FMUSP | |
| Sample | | 232 | |
| Type of study | | Literature review | |
| Main results | | Ex. 1: Invasion of the Central Nervous System in an ascending way through the ECA receptors present in large quantities in the olfactory bulb.  Ex. 2: 44% of patients infected with SARS-CoV-2 presented anosmia or hyposmia as the initial manifestation of the disease. | |
|  | |  | |
| **Flowchart of the search strategy:** Follow the 2009 Prisma model. | | | |
| **Summary of the data:** After reading the articles, the relevant results that answer the study question will be placed on an online form so that the data can be separated into quantitative and qualitative. | | | |
| **Quantitative:** The data will be presented as absolute and relative frequencies, using tables, charts and/or figures.  **Qualitative:** Qualitative data will be allocated in a summary matrix with the main data from the studies. | | | |