

INPLASY

Primary care for type 2 diabetic patients during the COVID-19 pandemic– Scoping Review

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ADMINISTRATIVE INFORMATION

Support - Instituto de Salud Carlos III.

Review Stage at time of this submission - Formal screening of search results against eligibility criteria.

Conflicts of interest - None declared.

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Amendments - This protocol was registered with the International Platform of Registered Systematic Review and Meta-Analysis Protocols (INPLASY) on 19 June 2023 and was last updated on 19 June 2023.

INTRODUCTION

Review question / Objective How was the health care provided to patients with type 2 diabetes mellitus (T2D) in Primary Care (PC) during the COVID-19 pandemic?

Background Since the onset of the COVID-19 pandemic, the management of patients with T2D could have worsened due to the overload of the healthcare system, prioritizing acute care, especially for patients with COVID-19.

Some studies have reported that this decrease in follow-up has led to poorer care and less resources for T2D patients, which may have deteriorated their health and increased complications. As a consequence of less attention to chronicity, worse results are expected in relation to the patient follow-up, monitoring, screening and vaccination, especially in PC.

Rationale Describing how this care has been provided, both from a quantitative and qualitative

point of view, seems interesting in order to analyze how this pandemic has affected the control and follow-up of patients with T2D. The results may lead to the proposal of measures to improve the care provided to this type of patients in possible similar situations in the future.

METHODS

Strategy of data synthesis A scoping review will be conducted. To identify relevant studies, the lead author (IB) has designed structured search strategies for each of the selected databases (Appendix I). The strategy in PubMed includes the MeSH terms “diabetes mellitus, type 2”, “hypoglycemic agents”, “primary health care”, “primary nursing”, “primary care nursing”, “physicians, primary care”, “covid-19” and other uncontrolled language terms have been added in the title and abstract to increase the sensitivity of the search (Appendix 1). This search has been adapted to all other sources of information. Grey literature and conference papers are not included.

References will be handled with the bibliographic manager Mendeley. All the articles published from 2020 until the date of the search on March 1, 2023, have been included.

Once the papers of interest have been identified, they will be read in depth and classified according to their characteristics and relevant information in order to reach conclusions about the care provided to patients with T2D in PC are during the COVID-19 pandemic.

Eligibility criteria

Population: T2D patients.

Context: COVID-19 pandemic.

Concept: primary care.

Study designs included: clinical trials, case-control studies, cohort studies and descriptive studies.

Inclusion criteria:

Patients with a doctor-diagnosed T2D or taking an oral antidiabetic drug, who received care in PC during the COVID-19 pandemic.

Exclusion criteria:

- Children under 16 years old.
- Gestational diabetes and other non-T2D.
- Prediabetes, impaired glucose tolerance or impaired fasting glycaemia.
- Studies focused on the evolution, prevalence, complications or increased mortality due to COVID-19 in T2D patients.
- Studies focusing on hospital referrals.
- Studies focusing on telematic consultations at a level of care other than PC.
- Studies focusing on emergency care (hospital or PC)
- Studies focusing on the outcome of drug use and effectiveness.
- Studies focusing on increased mortality causes in T2D.
- Studies focusing on the coverage and effects of vaccination in T2D patients.

Timeframe: 2020 to March 2023.

Source of evidence screening and selection

Search strategies

PUBMED:

("diabetes mellitus, type 2"[MeSH Terms] OR "type 2 diabetes mellitus"[tiab] OR "diabetes mellitus type 2"[tiab] OR "diabetes mellitus, type 2"[MeSH Terms] OR "type 2 diabetes mellitus"[tiab] OR ("non"[tiab] AND "insulin"[tiab] AND "dependent"[tiab] AND "diabetes"[tiab] AND "mellitus"[tiab]) OR "non insulin dependent diabetes mellitus"[tiab] OR "diabetes mellitus, type 2"[MeSH Terms] OR "type 2 diabetes mellitus"[tiab] OR ("diabetes"[tiab] AND "mellitus"[tiab] AND "type"[tiab] AND "ii"[tiab]) OR "diabetes mellitus type ii"[tiab] OR "niddm"[TIAB] OR "niddms"[TIAB] OR "hypoglycemic agents"[Pharmacological

Action] OR "hypoglycemic agents"[MeSH Terms] OR ("hypoglycemic"[TIAB] AND "agents"[TIAB]) OR "hypoglycemic agents"[TIAB] OR ("hypoglycemic"[TIAB] AND "agent"[TIAB]) OR "hypoglycemic agent"[TIAB] OR "hypoglycaemics"[TIAB] OR "antihyperglycemic"[TIAB] OR "antihyperglycemics"[TIAB] OR ("hypoglycemic"[TIAB] AND "drug"[TIAB]) OR "hypoglycemic drug"[TIAB] OR ("antidiabetic"[TIAB] AND "drugs"[TIAB]) OR "antidiabetic drugs"[TIAB] OR ("antidiabetic"[TIAB] AND "agent"[TIAB]) OR "antidiabetic agent"[TIAB] AND ("primary health care"[MeSH Terms] OR ("primary"[TIAB] AND "health"[TIAB] AND "care"[TIAB]) OR "primary health care"[TIAB] OR ("primary"[TIAB] AND "healthcare"[TIAB]) OR "primary healthcare"[TIAB] OR "ambulatory care"[MeSH Terms] OR ("ambulatory"[TIAB] AND "care"[TIAB]) OR "ambulatory care"[TIAB] OR "ambulatory care facilities"[MeSH Terms] OR ("ambulatory"[TIAB] AND "care"[TIAB] AND "facilities"[TIAB]) OR "ambulatory care facilities"[TIAB] OR ("ambulatory"[TIAB] AND "care"[TIAB] AND "facilities"[TIAB] AND "non"[TIAB] AND "hospital"[TIAB]) OR "ambulatory care facilities, non hospital"[TIAB] OR "primary nursing"[MeSH Terms] OR ("primary"[TIAB] AND "nursing"[TIAB]) OR "primary nursing"[TIAB] OR ("primary"[TIAB] AND "care"[TIAB] AND "nursing"[TIAB]) OR "primary care nursing"[TIAB] OR "primary care nursing"[MeSH Terms] OR ("primary"[TIAB] AND "care"[TIAB] AND "nursing"[TIAB]) OR ("nursing"[TIAB] AND "primary"[TIAB]) OR "nursing, primary"[TIAB] OR ("primary"[TIAB] AND "nursing"[TIAB] AND "care"[TIAB]) OR "primary nursing care"[TIAB] OR "physicians, primary care"[MeSH Terms] OR ("physicians"[TIAB] AND "primary"[TIAB] AND "care"[TIAB]) OR "primary care physicians"[TIAB] OR ("physicians"[TIAB] AND "primary"[TIAB] AND "care"[TIAB]) OR "physicians, primary care"[TIAB] OR ("physician"[TIAB] AND "primary"[TIAB] AND "care"[TIAB]) OR "physician, primary care"[TIAB])) AND ((COVID-19) OR "covid-19"[MeSH Terms] OR "covid-19"[TIAB] OR "covid19"[TIAB] OR "sars cov 2 infections"[TIAB] OR "sars-cov-2"[MeSH Terms] OR "sars-cov-2"[TIAB] OR "sars cov 2"[TIAB] OR "covid 19 pandemic"[TIAB]) 119 results

EMBASE

'non insulin dependent diabetes mellitus'/exp OR 'non insulin dependent diabetes mellitus':ti,ab,kw OR 'type 2 diabetes':ti,ab,kw OR 'diabetes type 2':ti,ab,kw AND 'primary care':ti,ab,kw OR 'primary medical care'/exp OR 'primary medical care':ti,ab,kw OR 'primary health care'/exp OR 'primary health care':ti,ab,kw OR 'general practitioner'/exp OR 'general practitioner':ti,ab,kw

AND 'coronavirus disease 2019'/exp OR 'coronavirus disease 2019':ti,ab,kw OR 'covid 19':ti,ab,kw 197 results

Age > 18 years 131 results

WEB OF SCIENCE

("diabetes type 2" OR "type 2 diabetes" OR "non insulin dependent diabetes mellitus") (Topic) and ("primary care" OR "primary medical care" OR "primary health care" OR "general practitioner") (Topic) and ("covid-19" OR "coronavirus disease") (Topic) 109 results.

Data management Selected articles will be transferred to Rayyan where, after elimination of duplicates, article selection will be performed by two authors (IB, SM), with blinded results. Discrepancies will be resolved by a third author (IA).

Sources of information: Pubmed, Embase, Web of Science.

Language restriction Spanish and English.

Country(ies) involved Spain.

Keywords Diabetes mellitus, type 2; Primary health care; Covid-19.

Dissemination plans A paper will be written for publication in a scientific journal. Results will also be disseminated in scientific conferences and to the general public.

Contributions of each author

Author 1 - Irantzu Bengoa-Urrengoechea, lead author, will carry out the bibliographic search strategies to be applied in the different databases, will synthesize the results obtained and will be responsible for eliminating duplicates. Once in Rayyan, she will be one of the two authors who will carry out the selection of articles.

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Author 2 - Sara Malo-Fumanal, second author, will carry out the selection of articles in Rayyan, supervise the development of the search process and the obtaining of results.

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Author 3 - Isabel Aguilar-Palacio, third author, will make the selection in case of discrepancies between the previous authors and will supervise the development of the search process and the obtaining of results.

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