

## 1 **Title**

2 Barriers and facilitators to type 2 diabetes management in the Caribbean region: a systematic review  
3 protocol

## 4 5 **Review objective**

6 The objective of this systematic review is to summarize the barriers and facilitators to type 2 diabetes  
7 management in the Caribbean region.

## 8 9 **Introduction**

10 Type 2 diabetes mellitus (T2DM) is a chronic metabolic condition where the pancreas is unable to  
11 produce sufficient amounts of insulin or the body is unable to use insulin effectively. As a result, there  
12 are high blood glucose levels in the body. T2DM is a type of diabetes that affects approximately 85%  
13 of people with the disease (diabetes).<sup>1</sup> It is usually diagnosed in adults.<sup>2</sup>

### 14 15 *Global prevalence of T2DM*

16 Globally, around 422 million adults were diagnosed with T2DM in 2014; the number has doubled since  
17 1980.<sup>3</sup> As a result of this increasing trend, it is quickly becoming an epidemic in some countries.<sup>4</sup>

### 18 19 *Risk factors for T2DM*

20 Some commonly known risk factors for T2DM are increasing age, ethnicity (such as South Asian,  
21 Chinese, African-Caribbean or Black African origin), a family history of T2DM, a history of gestational  
22 diabetes in woman, physical inactivity, unhealthy diet, overweight or obesity, dyslipidemia, hypertension  
23 and pre-diabetes.<sup>5</sup> Persons are more likely to develop T2DM when more risk factors are present.<sup>5,6</sup>

### 24 25 *Impact and complications of T2DM*

26 T2DM has a huge disease burden, experienced by the patients and their families/carers as well as by  
27 the country's economy and healthcare system, especially in poorly developed countries.<sup>4</sup> T2DM is  
28 associated with long-term macro- and micro-vascular complications.<sup>7</sup> Coronary heart disease,  
29 peripheral arterial disease and stroke are macro-vascular complications. Diabetic retinopathy, diabetic  
30 nephropathy and diabetic neuropathy are micro-vascular complications. T2DM is associated with  
31 reduced quality of life and life expectancy.<sup>8</sup> It can reduce life expectancy by five to seven years when  
32 55 years old.<sup>2,9,10</sup> Globally, T2DM has caused 4.6 million deaths in 2011.<sup>11</sup>

### 33 34 *Management of T2DM*

35 People with T2DM can live longer healthier lives if their T2DM is detected early and well managed.<sup>12</sup>  
36 Management is likely to include interventions which will control their blood glucose levels (through a  
37 combination of healthy diet, physical activity and medication, if necessary); control their blood pressure  
38 and blood lipids; and regularly screen their eyes, kidneys and feet to detect any damage and facilitate  
39 early management, if required.<sup>2</sup>

40

41 T2DM in the Caribbean region

42 Of people living with diabetes in the Caribbean region, 95% of them have T2DM.<sup>13</sup> The prevalence of  
43 T2DM is approximately 9% and is accountable for around 14% of all deaths in the Caribbean region.<sup>14</sup>  
44 Majority of T2DM associated morbidity and mortality occurs in the productive age group (18-59 years  
45 old), which affects economic growth, negatively impacting the overall productivity of the Caribbean  
46 region.<sup>15</sup> T2DM is, therefore, one of the most significant public health challenges in the Caribbean region  
47 in this twenty-first century.<sup>15</sup>

48  
49 Few studies have been published on the complications of T2DM in the Caribbean region. One study  
50 conducted in Barbados reported that the cumulative incidence of diabetic retinopathy in people with  
51 T2DM was 32% over a four-year period and rose to 40% over a nine-year period.<sup>16,17</sup> Another study  
52 conducted among T2DM patients in Trinidad reported that around half of them had symptoms of diabetic  
53 neuropathy, 12% had a history of diabetic foot, and 4% had to undergo amputation.<sup>18</sup> In another study  
54 conducted in Barbados, the incidence of lower extremity amputation on diabetic foot was 936 per  
55 100,000 persons.<sup>19</sup>

56  
57 In the 1990s, two studies reported that the overall quality of care of T2DM patients was unsatisfactory  
58 in the Caribbean region and more specifically in Barbados, Trinidad, Tobago, Tortola and Jamaica.<sup>20,21</sup>  
59 Around 50% of T2DM patients had poor glucose control.<sup>20</sup> The care issues reported were inadequate  
60 guidance on diet and physical activity, monitoring of blood glucose levels, and screening for  
61 complications.<sup>21</sup>

62  
63 In the Caribbean region, a guideline is available to manage T2DM at the primary care level.<sup>13</sup> This  
64 guideline is for T2DM patients, their families/carers and healthcare professionals whose work involves  
65 the management of T2DM (such as providers and commissioners). This guideline focuses on patient  
66 education, lifestyle advice, managing blood glucose levels, managing cardiovascular risk, and  
67 identifying and managing long-term complications.<sup>13</sup>

68  
69 The rationale for the systematic review

70 Several studies have been conducted in the Caribbean region on barriers and facilitators to T2DM  
71 management,<sup>21-28</sup> which have identified poor access to health care, difficulty in maintaining behaviour  
72 change and negative attitudes about living with T2DM as potential barriers and support from family  
73 members as a potential facilitator.

74 Until now, no systematic review has been conducted on this topic. Our systematic review aims to  
75 summarize these barriers and facilitators, which can occur at the patient level (including their  
76 family/carer), at the healthcare provider level or at the healthcare commissioner level. By providing a  
77 complete picture of the issue, this systematic review may help the health experts to address the barriers  
78 and promote the facilitators, by taking necessary actions.

79  
80

81 **Keywords**

82 Barriers; Caribbean; facilitators; type 2 diabetes management

83

84 **Methods**

85 The systematic review process will adhere to the Preferred Reporting Items for Systematic reviews and  
86 Meta-Analyses (PRISMA)<sup>29</sup> and the Joanna Briggs Institute (JBI) methodology for qualitative evidence  
87 systematic reviews guidelines.<sup>30</sup>

88

89 **Inclusion criteria**

90 *Types of participants*

91 This review will include studies conducted among adults (aged 18 and above) with T2DM, their families/  
92 carers (a person who looks after a T2DM patient) and healthcare professionals whose work involves  
93 the management of T2DM (such as providers and commissioners).

94

95 *Phenomena of interest*

96 This review will include studies that focus on the views, experiences, attitudes, understandings,  
97 perceptions and perspectives regarding the barriers and facilitators to T2DM management.

98

99 *Context*

100 The Caribbean region includes Anguilla, Antigua and Barbuda, Aruba, The Bahamas, Barbados,  
101 Bonaire, British Virgin Islands, Cayman Islands, Cuba, Curacao, Dominica, Dominican Republic,  
102 Grenada, Guadeloupe, Haiti, Jamaica, Martinique, Montserrat, Netherlands Antilles, Puerto Rico, Saint  
103 Kitts and Nevis, Saint Barthelemy, Saint Lucia, Saint Vincent and the Grenadines, Sint Maarten/Saint  
104 Martin, Trinidad and Tobago, Turks and Caicos Islands, US Virgin Islands).<sup>31</sup> In the Caribbean region,  
105 any study setting will be included such as community, primary care, secondary care and tertiary care.

106

107 *Type of studies*

108 This review will include studies that focus on qualitative data, including, but not limited to, designs such  
109 as phenomenology, ethnography, grounded theory and action research. We will also include cross-  
110 sectional surveys where free-text relating to the review question is reported within the paper.

111

112 **Search strategy**

113 An initial limited search was carried out in MEDLINE and EMBASE databases using the initial keywords,  
114 and the keywords were type 2 diabetes management, barriers, facilitators and Caribbean. The titles  
115 and abstracts of the studies were screened for keywords, and the index terms used to describe the  
116 article were also identified. The search results were inspected to ensure that the relevant articles were  
117 identified.

118

119 We aim to search a wide range of sources, to find both published and unpublished studies. The following  
120 databases will be searched for published studies: MEDLINE (1946-present), EMBASE (1974-present),

121 CINAHL (1961-present), PsycINFO (1860-present), BNI (1985-present), AMED (1887-present), Web  
122 of Science (1900-present) and Scopus (1960-present). The search strategy, to be used in MEDLINE,  
123 is detailed in Appendix I. This search strategy will be adopted for other databases, in consultation with  
124 an information specialist/librarian. The search for unpublished studies will include EthOS, OpenGrey,  
125 ProQuest Dissertations and Theses. The reference list of any identified reviews and primary studies  
126 included in the review will be screened for additional studies. We will restrict to the following six official  
127 languages of the Caribbean English, Spanish, French, Dutch, Haitian Creole and Papiamentu.<sup>31</sup>  
128

#### 129 Study selection

130 Following the search, all identified citations will be collated and uploaded into EndNote X8.2,<sup>32</sup> a  
131 reference management software, and duplicates will be removed. Titles and abstracts will be screened  
132 for eligibility using the inclusion criteria by two reviewers independently (ALN and KC/JLB). Studies  
133 identified as potentially eligible or those without an abstract will have their full-text retrieved and their  
134 details will be imported into the JBI premier software for systematic review of the literature, a system  
135 for the unified management, assessment and review of information (JBI SUMARI).<sup>33</sup> Full-text of the  
136 studies will be assessed against the inclusion criteria by two reviewers independently (ALN and  
137 KC/JLB). Full-text studies that do not meet the inclusion criteria will be excluded, and the reasons for  
138 exclusion will be reported. Any disagreements that arise between the two reviewers will be resolved  
139 through discussion. If consensus is not reached, then a third reviewer (KC/JLB) will be involved.  
140

#### 141 Assessment of methodological quality

142 Included studies will be critically assessed, independently, by two reviewers (ALN and KC/JLB) using  
143 the standardized critical appraisal tools incorporated within JBI SUMARI.<sup>33-35</sup> Any disagreements that  
144 arise between the two reviewers will be resolved through discussion. If consensus is not reached, then  
145 a third reviewer (KC/JLB) will be involved. All studies, regardless of the results of their methodological  
146 quality, will undergo data extraction and synthesis (where possible).  
147

#### 148 Data extraction

149 Data will be extracted from papers included in the review using the standardized data extraction tool  
150 incorporated within JBI SUMARI,<sup>33-35</sup> independently by two reviewers (ALN and KC/JLB). The data  
151 extracted will include specific details about the study methods (study type, data collection, data  
152 analysis), country, participant (T2DM patients and families/carers, healthcare providers, healthcare  
153 commissioners) characteristics and sample size, context (community, primary care, secondary care,  
154 tertiary care), phenomena of interest and findings. In the case of cross-sectional surveys, free-text  
155 relating to the review question will be extracted as qualitative data. Any disagreements that arise  
156 between the two reviewers will be resolved through discussion. If consensus is not reached, then a third  
157 reviewer (KC/JLB) will be involved.  
158

#### 159 Data synthesis

160 Study findings from all study designs will, where possible, be pooled using JBI SUMARI with the meta-  
161 aggregation approach.<sup>33,35,36</sup> This will involve the aggregation or synthesis of findings to generate a set  
162 of statements that represent that aggregation, through assembling the findings and categorizing these  
163 findings on the basis of similarity in meaning. These categories will then be subjected to a synthesis in  
164 order to produce a single comprehensive set of synthesized findings. Where textual pooling is not  
165 possible, the findings will be presented in narrative form.

166

#### 167 Assessing certainty in the findings

168 The final synthesized findings will be graded according to the ConQual approach for establishing  
169 confidence in the output of research synthesis and presented in a summary of findings table.<sup>37</sup> The  
170 table will include the major elements of the review and details how the ConQual score is developed.  
171 The table will include the title, population, phenomena of interest and context for the specific review.  
172 Each synthesized finding from the review will then be presented along with the type of research  
173 informing it, a score for dependability, credibility and the overall ConQual score.

174

#### 175 Conflict of interest

176 The authors declare no conflict of interest.

177

#### 178 Funding

179 This systematic review will receive no specific grant from any funding agency in the public, commercial  
180 or not-for-profit sectors.

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279 **Appendix I: Search strategy MEDLINE**

280

- 281 1. exp diabetes mellitus, type 2/
- 282 2. exp diabetes complications/
- 283 3. (MODY or NIDDM or T2DM).tw,kf,ot.
- 284 4. ((typ? 2 or typ? II or typ?2 or typ?II) adj diabet\$).tw,kf,ot.
- 285 5. 1 or 2 or 3 or 4
- 286 6. (barrier\* or impediment\* or challenge\* or hindrance\* or obstacle\* or hurdle\* or
- 287 obstruction\* or deterrent\* or facilitator\*).mp.
- 288 7. exp qualitative research/
- 289 8. exp interview/
- 290 9. exp focus groups/
- 291 10. exp cross-sectional studies/
- 292 11. exp surveys and questionnaires/
- 293 12. (qualitative or interview\* or focus group\* or cross-sectional or cross sectional or
- 294 survey\*).mp.
- 295 13. 6 or 7 or 8 or 9 or 10 or 11 or 12
- 296 14. exp Caribbean Region/
- 297 15. exp Trinidad and Tobago/
- 298 16. exp Antigua and Barbuda/
- 299 17. exp Barbados/
- 300 18. exp Martinique/
- 301 19. exp Dominican Republic/
- 302 20. exp Haiti/
- 303 21. exp Jamaica/
- 304 22. exp Puerto Rico/
- 305 23. exp Cuba/
- 306 24. exp Bahamas/
- 307 25. exp Dominica/
- 308 26. exp Saint Lucia/
- 309 27. exp Grenada/
- 310 28. exp Guadeloupe/
- 311 29. exp Curacao/
- 312 30. exp Aruba/
- 313 31. exp Netherlands Antilles/
- 314 32. exp United States Virgin Islands/
- 315 33. exp British Virgin Islands/
- 316 34. exp Saint Kitts and Nevis/
- 317 35. exp Sint Maarten/
- 318 36. exp West Indies/

- 319 37. exp Saint Vincent and the Grenadines/  
320 38. ((Caribbean) or (Trinidad) or (Tobago) or (Antigua) or (Barbuda) or (Barbados) or (Martinique)  
321 or (Dominican Republic) or (Haiti) or (Hispaniola) or (Jamaica) or (Puerto Rico) or (Cuba) or  
322 (Bahamas) or (Dominica) or (Saint Lucia) or (Grenada) or (Guadeloupe) or (Curacao) or  
323 (Bonaire) or (Aruba) or (Saba) or (Saint Eustatius) or (Virgin Islands) or (Tortola) or (Virgin  
324 Gorda) or (Jost Van Dyke) or (Anegada) or (Saint Croix) or (Saint Thomas) or (Saint John) or  
325 (Saint Kitts) or (Nevis) or (Saint Christopher) or (Sombbrero) or (Saint Martin) or (Sint Maarten)  
326 or (West Indies) or (Saint Vincent) or (Grenadines) or (Eastern Caribbean) or (Greater Antilles)  
327 or (Lesser Antilles) or (Leeward Islands) or (Windward Islands) or (Caribbean Islands) or  
328 (Cayman Islands) or (Montserrat) or (Turks and Caicos Islands) or (Anguilla) or (Saint  
329 Barthelemy)).mp.  
330 39. 14 or 15 or 16 or 17 or 18 or 19 or 20 or 21 or 22 or 23 or 24 or 25 or 26 or 27 or  
331 28 or 29 or 30 or 31 or 32 or 33 or 34 or 35 or 36 or 37 or 38  
332 40. 5 and 13 and 39