Search strategies

Medline (Ovid)

Search on 19.11.2018, 1470 references, Update from 2018 to Current on 20.08.2020: 541 references

1. exp Diabetes Mellitus/ 2. Diabetes.tw 3. or/1-2 4. Africa.tw 5. Exp Africa/ 6. Algeria\$.tw or exp Algeria/ 7. Angol\$.tw or exp Benin/ 9. Botswan\$.tw or exp Benin/ 9. Botswan\$.tw or exp Burkina Faso/ 11. Burund\$.tw or exp Burundi/ 12. Cameroon\$.tw or exp Cameroon/ 13. Cape Verde.tw or exp Cameroon/ 14. Central African Republic\$.tw or exp Central African Republic/ 15. Chad\$.tw or exp Chad/ 16. Comoros\$.tw or exp Comoros/ 17. Cote d'Ivoire.tw or exp Cote d'Ivoire/ 18. Democratic Republic of Congo.tw or exp Democratic Republic of Congo 19. Djibout\$.tw or exp Ejypt/ 20. Egypt\$.tw or exp Editopia/ 21. Equatorial Guinea\$.tw or exp Gambia/ 22. Eritrea\$.tw or exp Gambia/ 23. Ethiop\$.tw or exp Gambia/ 24. Gabon\$.tw or exp Gambia/ 25. Gambia\$.tw or exp Gambia/ 26. Ghana\$.tw or exp Gambia/ <t< th=""><th>Nr.</th><th>Searches</th></t<>	Nr.	Searches
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34. Malawi\$.tw or exp Malawi/	33.	Madagascar\$.tw or exp Madagascar/
	34.	Malawi\$.tw or exp Malawi/

Nr.	Searches
35.	Mali.tw or exp Mali/
36.	Mauritania\$.tw or exp Mauritania/
37.	Mauritius\$.tw or exp Mauritius/
38.	Morocc\$.tw or exp Morocco/
39.	Mozambique\$.tw or exp Mozambique/
40.	Namibia\$.tw or exp Namibia/
41.	Niger.tw or exp Niger/
42.	Nigeria\$.tw or exp Nigeria/
43.	Rwanda\$.tw or exp Rwanda/
44.	(Sao Tome and Principe).tw
45.	Senegal\$.tw or exp Senegal/
46.	Seychell\$.tw
47.	Sierra Leone.tw or exp Sierra Leone/
48.	Somalia\$.tw or exp Somalia/
49.	South Africa\$.tw or exp South Africa.de
50.	South Sudan.tw or exp South Sudan/
51.	Sudan\$.tw or exp Sudan/
52.	Swaziland\$.tw or exp Swaziland/
53.	Tanzania\$.tw or exp Tanzania/
54.	Togo\$.tw or exp Togo/
55.	Tunisia\$.tw or exp Tunisia/
56.	Uganda\$.tw or exp Uganda/
57.	Zambia\$.tw or exp Zambia/
58.	Zimbabwe\$.tw or exp Zimbabwe/
59.	Somaliland\$.tw or exp Somaliland/
60.	Sahrawi Arab Democratic Republic.tw.
61.	or/4-60
62.	randomized controlled trial.pt.
63.	controlled clinical trial.pt.
64.	(randomized or randomised or randomly).ti,ab
65.	placebo.ti,ab.
66.	trial.ti,ab.
67.	groups.ti,ab.
68.	or/62-67
69.	3 and 61 and 68
70.	exp animals/ not humans.sh.
71.	69 not 70
72.	71 not (comment or editorial).pt.

CENTRAL

Search on 14.01.2019, 439 trials, Update from 2018 to Current on 20.08.2020: 244 trials

1	Africa, explode all trees
2	Algeria* or Angol* or Benin* or Botswan*
3	(Burkina Faso) or Burund* or Cameroon* or (Cape Verde) or (Central African
	Republic)
4	Chad* or Comoros* or Cote d'Ivoire or Congo*
5	Djibout* or Egypt* or (Equatorial Guinea*) or Eritrea*
6	Ethiop* or Gabon* or Gambia* or Ghana* or Guinea* or Guinea-Bissau
7	Kenya* or Lesoth* or Liberia* or Libya* or Madagascar* or Malawi*
8	Mali* or Mauritania* or Mauritius* or Morocc* or Mozambique* or Namibia* or
	Niger*
9	Nigeria* or Rwanda* or (Sao Tome and Principe) or Senegal* or Seychell*
10	Sierra Leone or Somalia* or (South Africa) or (South Sudan*) or Sudan* or
	Swasiland
11	Tanzania* or Togo* or Tunisia* or Uganda* or Zambia* or Zimbabwe* or
	Somaliland or (Sahrawi Arab Democratic Republic)
12	#1 or #2 or #3 or #4 or #5 or #6 or #7 or #8 or #9 or #10 or #11
13	MeSH descriptor Diabetes, this term only
14	MESH descriptor Diabetes mellitus, explode all trees
15	Diabetes near 3 gestation*
16	Latent autoimmune diabetes in adults
17	Prediabetes
18	Insulin resistan*
20	HBA1C
21	Diabet* near 3 (angiopath* or foot orfeet or retinopath*)
22	Diabet* near 3 (cardiomyopathy* or coma or ketoacido* or neuropath*)
23	#13 or #14 or #15 or #16 or #17 or #18 or #19 or #20 or #21
32	#12 and #23

CINAHL

Search on 20.08.2020: 19 results

(Africa\$ or Africa\$ or Algeria\$ or Angol\$ or Benin\$ or Botswan\$ or (Burkina Faso) or Burund\$ or Cameroon\$ or (Cape Verde) or (Central African Republic) or Chad\$ or Comoros\$ or Cote d'Ivoire or Congo\$ Djibout\$ or Egypt\$ or (Equatorial Guinea\$) or Eritrea\$

BMJ Open

or Ethiop\$ or Gabon\$ or Gambia\$ or Ghana\$ or Guinea\$ or Guinea-Bissau or Kenya\$ or Lesoth\$ or Liberia\$ or Libya\$ or Madagascar\$ or Malawi\$ or Mali\$ or Mauritania\$ or Mauritius\$ or Morocc\$ or Mozambique\$ or Namibia\$ or Niger\$ or Nigeria\$ or Rwanda\$ or (Sao Tome and Principe) or Senegal\$ or Seychell\$ or Sierra Leone or Somalia\$ or (South Africa) or (South Sudan\$) or Sudan\$ or Swasiland or Tanzania\$ or Togo\$ or Tunisia\$ or Uganda\$ or Zambia\$ or Zimbabwe\$ or Somaliland or (Sahrawi Arab Democratic Republic)) in Abstract AND

AND diabetes in Abstract AND randomized or rct or randomized in Abstract AND In English AND Peer-reviewed And Humans

International Clinical Trials Registry Platform

Search on 9.-10.10.2019, update on 25.08.2020 (registration January 2019 to 31.08.2020) http://apps.who.int/trialsearch/AdvSearch.aspx

- 1. Africa or African in the Title and diabetes or diabetic or HbA1c in the condition, Recruitment status: all: 90 records for 90 trials (9.10.2019)
- 2. diabetes or diabetic or HbA1c in the condition

Recruitment status: all

Countries of recruitment: Algeria or Angola or Benin or Botswana or Burkina Faso or Burundi or Cameroon or Central African Republic or Chad or Congo or Cite D'ivoire: 96 record for 63 trials

3. diabetes or diabetic or HbA1c in the condition

Recruitment status: all

Countries of recruitment: Democratic Republic of Congo or Djibouti or Egypt or Equatorial Guinea or Eritrea or Ethiopia: 292 records for 159 trials

- 4. diabetes or diabetic or HbA1c in the condition
 - Recruitment status: all

Countries of recruitment: Gabon or Gambia or Ghana or Guinea or Guinea-Bissau or Kenya or Lesotho or Liberia or Lybia: 22 records for 22 trials

5. diabetes or diabetic or HbA1c in the condition

Recruitment status: all

Countries of recruitment: Madagascar or Malawi or Mali or Mauritania or Mauritius or Morocco or Mozambique: 96 records for 34 trials

- diabetes or diabetic or HbA1c in the condition Recruitment status: all Countries of recruitment: Nigeria: 13 records for 13 trials
- 7. diabetes or diabetic or HbA1c in the condition

Recruitment status: all

Countries of recruitment: Namibia or Niger or Rwanda or (Sao Tome and Principe) or Senegal or Seychelles or Sierra Leone or Somalia or South Sudan or Sudan or Swaziland:

11 records for 11 trials

 diabetes or diabetic or HbA1c in the condition Recruitment status: all

Countries of recruitment: South Africa: 1528 records for 429 trials:

9. diabetes or diabetic or HbA1c in the condition

Recruitment status: all

Countries of recruitment: Togo or Tunesia or Ujanda or Zambia or Zimbabwe: 129 records for 50 trials

African Journals Online

https://www.ajol.info/index.php/index/search/search?query=%28diabetes+or+diabetic+or+hb a1c%29+and+%28random+or+randomized+or+randomised%29&dateFromYear=2004&date FromMonth=01&dateFromDay=1&dateToYear=2020&dateToMonth=10&dateToDay=14&aut hors=

Advanced search 14.10.2020 Titel: (diabetes or diabetic or hba1c) and (random or randomized or randomised) 30 results

African Index Medicus Database

http://indexmedicus.afro.who.int/aim/opac_css/index.php?lvl=search_result&get_guery=4

Advanced search 14.10.2020 Titel, Expression booléenne: (diabetes or diabetic or hba1c) and (random or randomized or randomised) 122 results, no potentially eligible references

1 List of included and excluded studies

1.1 List of included studies

Abaza 2017

Abaza H, Marschollek M. SMS education for the promotion of diabetes self-management in low & middle income countries: a pilot randomized controlled trial in Egypt. BMC public health. 2017;17(1):962.

Abaza H, Marschollek M, Schulze M. SMS Education for the Promotion of Diabetes Self-Management in Low & Middle Income Countries: A Randomized Controlled Trial in Egypt. Studies in Health Technology & Informatics. 2017;245:1209.

Abdulrhman 2013

Abdulrhman MM, El-Hefnawy MH, Aly RH, Shatla RH, Mamdouh RM, Mahmoud DM, et al. Metabolic effects of honey in type 1 diabetes mellitus: a randomized crossover pilot study. Journal of Medicinal Food. 2013;16(1):66-72.

Adibe 2013

Adibe MO, Ukwe CV, Aguwa CN. The Impact of Pharmaceutical Care Intervention on the Quality of Life of Nigerian Patients Receiving Treatment for Type 2 Diabetes. Value in Health Regional Issues. 2013;2(2):240-7.

Adibe MO, Aguwa CN, Ukwe CV. Cost-Utility Analysis of Pharmaceutical Care Intervention Versus Usual Care in Management of Nigerian Patients with Type 2 Diabetes. Value in Health Regional Issues. 2013;2(2):189-98.

Adjei 2015

Adjei DN, Agyemang C, Dasah JB, Kuranchie P, Amoah AG. The effect of electronic reminders on risk management among diabetic patients in low resourced settings. Journal of Diabetes & its Complications. 2015;29(6):818-21.

Ali 2019

Ali S, Ghanem Y, Sharaki O, Hewedy W, al. e. The impact of different regimens of vitamin d3 on glucose homeostasis in type 2 diabetic patients. Asian journal of pharmaceutical and clinical research. 2019;12(12):21- 6.

Amendezo 2017

Amendezo E, Walker Timothy D, Karamuka V, Robinson B, Kavabushi P, Ntirenganya C, et al. Effects of a lifestyle education program on glycemic control among patients with diabetes at Kigali University Hospital, Rwanda: A randomized controlled trial. Diabetes Research & Clinical Practice. 2017;126:129-37.

Anderson 2001

Anderson RA, Roussel AM, Zouari N, Mahjoub S, Matheau JM, Kerkeni A. Potential antioxidant effects of zinc and chromium supplementation in people with type 2 diabetes mellitus. Journal of the American College of Nutrition. 2001;20(3):212-8.

Anyanwu 2016

Anyanwu AC, Fasanmade OA, Odeniyi IA, Iwuala S, Coker HB, Ohwovoriole AE. Effect of Vitamin D supplementation on glycemic control in Type 2 diabetes subjects in Lagos, Nigeria. Indian Journal of Endocrinology and Metabolism. 2016;20(2):189-94.

Ashoush 2016

Ashoush S, El-Said M, Fathi H, Abdelnaby M. Identification of metformin poor responders, requiring supplemental insulin, during randomization of metformin versus insulin for the control of gestational diabetes mellitus. Journal of obstetrics and gynaecology research. 2016;42(6):640-7.

Asuako 2017

Asuako B, Moses MO, Eghan BA, Sarpong PA. Fasting plasma glucose and lipid profiles of diabetic patients improve with aerobic exercise training. Ghana Medical Journal. 2017;51(3):120-7.

Beyuo 2015

Beyuo T, Obed SA, Adjepong-Yamoah KK, Bugyei KA, Oppong SA, Marfoh K. Metformin versus Insulin in the Management of Pre-Gestational Diabetes Mellitus in Pregnancy and Gestational Diabetes Mellitus at the Korle Bu Teaching Hospital: A Randomized Clinical Trial. PLoS ONE [Electronic Resource]. 2015;10(5):e0125712.

Chraibi 2017

Chraibi A, Al-Herz S, Nguyen BD, Soeatmadji DW, Shinde A, Lakshmivenkataraman B, et al. An RCT Investigating Patient-Driven Versus Physician-Driven Titration of BIAsp 30 in Patients with Type 2 Diabetes Uncontrolled Using NPH Insulin. Diabetes Therapy Research, Treatment and Education of Diabetes and Related Disorders. 2017;8(4):767-80.

Debussche 2018

Debussche X, Besancon S, Balcou-Debussche M, Ferdynus C, Delisle H, Huiart L, et al. Structured peer-led diabetes self-management and support in a low-income country: The ST2EP randomised controlled trial in Mali. PLoS ONE. 2018;13(1):e0191262.

Distiller 2014

Distiller LA, Nortje H, Wellmann H, Amod A, Lombard L. A 24-week, prospective, randomized, open-label, treat-to-target pilot study of obese type 2 diabetes patients with severe insulin resistance to assess the addition of exenatide on the efficacy of U-500 regular insulin plus metformin. Endocrine practice. 2014;20(11):1143- 50.

El Gayar 2019

El Gayar MH, Aboromia MMM, Ibrahim NA, Abdel Hafiz MH. Effects of ginger powder supplementation on glycemic status and lipid profile in newly diagnosed obese patients with type 2 diabetes mellitus. Obesity medicine. 2019;14.

El-Haggar 2015

El-Haggar SM, Farrag WF, Kotkata FA. Effect of ketotifen in obese patients with type 2 diabetes mellitus. Journal of Diabetes & its Complications. 2015;29(3):427-32.

El-Makaky 2020

El-Makaky Y, Shalaby HK. The effects of non-surgical periodontal therapy on glycemic control in diabetic patients: a randomized controlled trial. Oral diseases. 2020;26:822-9.

El-Shamy 2018

El-Shamy FF, El-Kholy SS, Labib M, Kabel AM. Ameliorative potential of acupressure on gestational diabetes mellitus: a randomized controlled trial. Journal of complementary and integrative medicine. 2018; 16(1).

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El-Sheikh HM, El-Haggar SM, Elbedewy TA. Comparative study to evaluate the effect of Lcarnitine plus glimepiride versus glimepiride alone on insulin resistance in type 2 diabetic patients. Diabetes and metabolic syndrome: clinical research and reviews. 2019;13(1):167-73.

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El- Sharkawy HM, Anees MM, Van Dyke TE. Propolis improves periodontal status and glycemic control in patients with type 2 diabetes mellitus and chronic periodontitis: a randomized clinical trial. Journal of periodontology. 2016;87(12):1418-26.

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Elbarbary NS. Effectiveness of the low-glucose suspend feature of insulin pump during fasting during Ramadan in type 1 diabetes mellitus. Diabetes/metabolism research and reviews. 2016;32(6):623-33.

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Elbarbary NS, Ismail EAR, El-Naggar AR, Hamouda MH, El-Hamamsy M. The effect of 12 weeks carnosine supplementation on renal functional integrity and oxidative stress in pediatric patients with diabetic nephropathy: a randomized placebo-controlled trial. Pediatric diabetes. 2018;19(3):470-7.

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Elbarbary NS, Ismail EAR, Zaki MA, Darwish YW, Ibrahim MZ, El-Hamamsy M. Vitamin B complex supplementation as a homocysteine-lowering therapy for early stage diabetic nephropathy in pediatric patients with type 1 diabetes: A randomized controlled trial. Clinical Nutrition. 2020;39(1):49-56.

Embaby 2016

Embaby H, Elsayed E, Fawzy M. Insulin Sensitivity and Plasma Glucose Response to Aerobic Exercise in Pregnant Women at Risk for Gestational Diabetes Mellitus. Ethiopian journal of health sciences. 2016;26(5):409- 14.

Essien 2017

Essien O, Otu A, Umoh V, Enang O, Hicks JP, Walley J. Intensive Patient Education Improves Glycaemic Control in Diabetes Compared to Conventional Education: A Randomised Controlled Trial in a Nigerian Tertiary Care Hospital. PLoS ONE 2017;12(1):e0168835.

Fairall 2016

Fairall LR, Folb N, Timmerman V, Lombard C, Steyn K, Bachmann MO, et al. Educational Outreach with an Integrated Clinical Tool for Nurse-Led Non-communicable Chronic Disease Management in Primary Care in South Africa: a Pragmatic Cluster Randomised Controlled Trial. Plos medicine. 2016;13(11):e1002178.

Fayehun 2018

Fayehun AF, Olowookere OO, Ogunbode AM, Adetunji AA, Esan A. Walking prescription of 10 000 steps per day in patients with type 2 diabetes mellitus: a randomised trial in Nigerian general practice. British Journal of General Practice. 2018;68(667):e139-e45.

Ghoneim 2013

Ghoneim EM, Abd El Ghany AA. Behavior of intraocular pressure after intravitreal injection of triamcinolone acetonide among egyptians. Ophthalmology and Therapy. 2013;2(2):121-30.

Hailu 2018

Hailu FB, Hjortdahl P, Moen A. Nurse-Led Diabetes Self-Management Education Improves Clinical Parameters in Ethiopia. Frontiers in Public Health. 2018;6:302.

Ibrahim 2014

Ibrahim MI, Hamdy A, Shafik A, Taha S, Anwar M, Faris M. The role of adding metformin in insulin-resistant diabetic pregnant women: a randomized controlled trial. Archives of Gynecology & Obstetrics. 2014;289(5):959-65.

Krawinkel 2018

Krawinkel MB, Ludwig C, Swai ME, Yang RY, Chun KP, Habicht SD. Bitter gourd reduces elevated fasting plasma glucose levels in an intervention study among prediabetics in Tanzania. Journal of Ethnopharmacology. 2018;216:1-7.

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Malek R, Ajili F, Assaad-Khalil SH, Shinde A, Chen JW, Van den Berg E. Similar glucose control with basal-bolus regimen of insulin detemir plus insulin aspart and thrice-daily biphasic insulin aspart 30 in insulin-naive patients with type 2 diabetes: Results of a 50-week randomized clinical trial of stepwise insulin intensification. Diabetes & Metabolism. 2015;41(3):223-30.

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Owolabi EO, Goon DT, Ajayi AI. Efficacy, acceptability and feasibility of daily text-messaging in promoting glycaemic control and other clinical outcomes in a low-resource setting of South Africa: A randomised controlled trial. PLoS ONE [Electronic Resource]. 2019;14(11):e0224791.

Owolabi EO, Goon DT, Ajayi Al. Impact of mobile phone text messaging intervention on adherence among patients with diabetes in a rural setting: A randomized controlled trial. Medicine. 2020;99(12):1-8.

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Ragheb SR, El Wakeel LM, Nasr MS, Sabri NA. Impact of Rutin and Vitamin C combination on oxidative stress and glycemic control in patients with type 2 diabetes. Clinical nutrition ESPEN. 2020;35:128-35.

Rashad 2017

Rashad H, Metwally FM, Ezzat SM, Salama MM, Hasheesh A, Abdel Motaal A. Randomized double-blinded pilot clinical study of the antidiabetic activity of Balanites aegyptiaca and UPLC-ESI-MS/MS identification of its metabolites. Pharmaceutical Biology. 2017;55(1):1954-61.

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RezkAllah SS, Takla MK. Effects of different dosages of interval training on glycemic control in people with prediabetes: a randomized controlled trial. Diabetes spectrum. 2019;32(2):125- 31.

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Saeed AM. Combined vitrectomy and intravitreal injection versus combined laser and injection for treatment of intractable diffuse diabetic macular edema. Clinical Ophthalmology. 2013;7:283-97.

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Salem MA, Aboelasrar MA, Elbarbary NS, Elhilaly RA, Refaat YM. Is exercise a therapeutic tool for improvement of cardiovascular risk factors in adolescents with type 1 diabetes mellitus? A randomised controlled trial. Diabetology & metabolic syndrome. 2010;2(1):47.

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Sodipo OO, Adedokun A, Olusola AA. Effect of self-monitoring of blood glucose on glycaemic outcome among type 2 diabetic patients. South african family practice. 2017;59(6):208-13.

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Somanah J, Aruoma OI, Gunness TK, Kowelssur S, Dambala V, Murad F, et al. Effects of a short term supplementation of a fermented papaya preparation on biomarkers of diabetes mellitus in a randomized Mauritian population. Preventive Medicine. 2012;54 Suppl:S90-7.

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Tawfik 2016

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Thuita 2020

Thuita AW, Kiage BN, Onyango AN, Makokha AO. Effect of a nutrition education programme on the metabolic syndrome in type 2 diabetes mellitus patients at a level 5 Hospital in Kenya: "a randomized controlled trial". BMC Nutr. 2020;6:30.

Tsobgny-Tsague 2018

Tsobgny-Tsague NF, Lontchi-Yimagou E, Nana ARN, Tankeu AT, Katte JC, Dehayem MY, et al. Effects of nonsurgical periodontal treatment on glycated haemoglobin on type 2 diabetes patients (PARODIA 1 study): a randomized controlled trial in a sub-Saharan Africa population. BMC Oral Health. 2018;18(1):28.

Utz 2018

Utz B, Assarag B, Smekens T, Ennassiri H, Lekhal T, El Ansari N, et al. Detection and initial management of gestational diabetes through primary health care services in Morocco: An effectiveness-implementation trial. PloS one. 2018;13(12):e0209322.

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van der Hoogt M, van Dyk JC, Dolman RC, Pieters M. Protein and fat meal content increase insulin requirement in children with type 1 diabetes - Role of duration of diabetes. Journal of clinical and translational endocrinology. 2017;10:15- 21.

van Rooijen 2004

van Rooijen AJ, Rheeder P, Eales CJ, Becker PJ. Effect of exercise versus relaxation on haemoglobin A1C in Black females with type 2 diabetes mellitus. Qjm. 2004;97(6):343-51.

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Webb EM, Rheeder P, Van Zyl DG. Diabetes care and complications in primary care in the Tshwane district of South Africa. Primary care diabetes. 2015;9(2):147-54.

Webb EM, Rheeder P, Roux P. Screening in Primary Care for Diabetic Retinopathy, Maculopathy and Visual Loss in South Africa. Ophthalmologica. 2016;235(3):141-9.

Webb EM, Rheeder P. A cluster-randomized trial to estimate the effect of mobile screening and treatment feedback on HbA1c and diabetes-related complications in Tshwane primary health care clinics, South Africa. Primary care diabetes. 2017;11(6):546-54.

Yakoot 2019

Yakoot M, Abdelatif M, Helmy S. Efficacy of a new local limb salvage treatment for limbthreatening diabetic foot wounds-a randomized controlled study. Diabetes, Metabolic Syndrome and Obesity: Targets and Therapy. 2019;12:1659.

Yan 2014

Yan H, Prista A, Ranadive SM, Damasceno A, Caupers P, Kanaley JA, et al. Effect of Aerobic Training on Glucose Control and Blood Pressure in T2DDM East African Males. Isrn Endocrinology Print. 2014;2014:864897.

1.2 List of excluded studies

1.2.1 Other design (28 references)

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 The short-term effect of a switch from glibenclamide to metformin on blood pressure and microalbuminuria in patients with type 2 diabetes mellitus. Archives of medical research. 2000;31(6):571- 5.

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