

Appendix 1 The search strategy used in Scopus.

Number	Search syntax	Results
1	<p>(TITLE-ABS("Hydroxymethylglutaryl-CoA Reductase Inhibitors") OR TITLE-ABS("Hydroxymethylglutaryl CoA Reductase Inhibitors") OR (TITLE-ABS (Inhibitors) AND TITLE-ABS("Hydroxymethylglutaryl-CoA Reductase")) OR (TITLE-ABS("Reductase Inhibitors") AND TITLE-ABS(Hydroxymethylglutaryl-CoA)) OR TITLE-ABS("HMG-CoA Reductase Inhibitor") OR TITLE-ABS("HMG CoA Reductase Inhibitor") OR TITLE-ABS(Statin) OR (TITLE-ABS(Statins) AND TITLE-ABS(HMG-CoA)) OR TITLE-ABS("HMG-CoA Statins") OR (TITLE-ABS(Statins) AND TITLE-ABS("HMG CoA")) OR (TITLE-ABS(Inhibitors) AND TITLE-ABS("HMG-CoA Reductase")) OR (TITLE-ABS(Inhibitors) AND TITLE-ABS("HMG CoA Reductase")) OR (TITLE-ABS("Reductase Inhibitors") AND TITLE-ABS(HMG-CoA)) OR TITLE-ABS("HMG-CoA Reductase Inhibitors") OR TITLE-ABS("HMG CoA Reductase Inhibitors") OR (TITLE-ABS(Inhibitors) AND TITLE-ABS("Hydroxymethylglutaryl-Coenzyme A")) OR TITLE-ABS("Hydroxymethylglutaryl-Coenzyme A Inhibitors") OR (TITLE-ABS(Inhibitors) AND TITLE-ABS("Hydroxymethylglutaryl Coenzyme A")) OR (TITLE-ABS(Inhibitors) AND TITLE-ABS(Hydroxymethylglutaryl-CoA)) OR TITLE-ABS("Hydroxymethylglutaryl-CoA Inhibitors") OR (TITLE-ABS(Inhibitors) AND TITLE-ABS("Hydroxymethylglutaryl CoA")) OR TITLE-ABS("Hydroxymethylglutaryl-CoA Reductase Inhibitor") OR TITLE-ABS("Hydroxymethylglutaryl CoA Reductase Inhibitor") OR (TITLE-ABS("Reductase Inhibitor") AND TITLE-ABS(Hydroxymethylglutaryl-CoA)) OR TITLE-ABS(Statins))</p>	51383

2	(TITLE-ABS("insulin secretion") OR (TITLE-ABS(secretion) AND TITLE-ABS(insulin)))	57000
3	(TITLE-ABS("Islets of Langerhans") OR TITLE-ABS("Langerhans Islets") OR TITLE-ABS("Pancreatic Islets") OR (TITLE-ABS(Islet) AND TITLE-ABS(Pancreatic)) OR (TITLE-ABS(Islets) AND TITLE-ABS(Pancreatic)) OR TITLE-ABS("Pancreatic Islet") OR (TITLE-ABS(Pancreas) AND TITLE-ABS(Endocrine)) OR TITLE-ABS("Endocrine Pancreas") OR TITLE-ABS("Islet Cells") OR (TITLE-ABS(Cell) AND TITLE-ABS(Islet)) OR (TITLE-ABS(Cells) AND TITLE-ABS(Islet)) OR TITLE-ABS("Islet Cell") OR TITLE-ABS("Islands of Langerhans") OR TITLE-ABS("Langerhans Islands") OR TITLE-ABS(Nesidioblasts) OR TITLE-ABS(Nesidioblast))	59650
4	((PUBYEAR < 2021 AND PUBYEAR > 2000) OR PUBYEAR = 2021 OR PUBYEAR = 2000)	-
5	1 AND 2	161
6	2 AND 3	13620
7	1 AND 3	52
8	1 AND 2 AND 3 AND 4	23

Appendix 2 The search strategy used in Web of science.

Number	Search syntax	Results
1	(TS=("Hydroxymethylglutaryl-CoA Reductase Inhibitors") OR TS=("Hydroxymethylglutaryl CoA Reductase Inhibitors") OR (TS=(Inhibitors) AND TS=("Hydroxymethylglutaryl-CoA Reductase")) OR (TS=("Reductase Inhibitors") AND TS=(Hydroxymethylglutaryl-CoA)) OR TS=("HMG-CoA Reductase Inhibitor") OR TS=("HMG CoA Reductase Inhibitor") OR TS=(Statin) OR (TS=(Statins) AND TS=(HMG-CoA)) OR TS=("HMG-CoA Statins") OR (TS=(Statins) AND TS=("HMG CoA")) OR (TS=(Inhibitors) AND TS=("HMG-CoA Reductase")) OR (TS=(Inhibitors) AND TS=("HMG CoA Reductase")) OR (TS=("Reductase Inhibitors") AND TS=(HMG-CoA)) OR TS=("HMG-CoA Reductase Inhibitors") OR TS=("HMG CoA Reductase Inhibitors") OR (TS=(Inhibitors) AND TS=("Hydroxymethylglutaryl-Coenzyme A")) OR TS=("Hydroxymethylglutaryl-Coenzyme A Inhibitors") OR (TS=(Inhibitors) AND TS=("Hydroxymethylglutaryl Coenzyme A")) OR (TS=(Inhibitors) AND TS=(Hydroxymethylglutaryl-CoA)) OR TS=("Hydroxymethylglutaryl-CoA Inhibitors") OR (TS=(Inhibitors) AND TS=("Hydroxymethylglutaryl CoA")) OR TS=("Hydroxymethylglutaryl-CoA Reductase Inhibitor") OR TS=("Hydroxymethylglutaryl CoA Reductase Inhibitor") OR (TS=("Reductase Inhibitor") AND TS=(Hydroxymethylglutaryl-CoA)) OR TS=(Statins))	59446
2	(TS=("insulin secretion") OR (TS=(secretion) AND TS=(insulin)))	69507
3	(TS=("Islets of Langerhans") OR TS=("Langerhans Islets") OR TS=("Pancreatic Islets") OR (TS=(Islet) AND TS=(Pancreatic)) OR (TS=(Islets) AND TS=(Pancreatic)) OR TS=("Pancreatic Islet") OR (TS=(Pancreas) AND	62715

	TS=(Endocrine) OR TS=("Endocrine Pancreas") OR TS=("Islet Cells") OR (TS=(Cell) AND TS=(Islet)) OR (TS=(Cells) AND TS=(Islet)) OR TS=("Islet Cell") OR TS=("Islands of Langerhans") OR TS=("Langerhans Islands") OR TS=(Nesidioblasts) OR TS=(Nesidioblast))	
4	PY=(2000-2021)	-
5	1 AND 2	239
6	2 AND 3	17769
7	1 AND 3	65
8	1 AND 2 AND 3 AND 4	28

Appendix 3 The search strategy used in ProQuest.

Number	Search syntax	Results
1	(AB, TI("Hydroxymethylglutaryl-CoA Reductase Inhibitors")) OR AB, TI("Hydroxymethylglutaryl CoA Reductase Inhibitors") OR (AB, TI(Inhibitors) AND AB, TI("Hydroxymethylglutaryl-CoA Reductase")) OR (AB, TI("Reductase Inhibitors") AND AB, TI(Hydroxymethylglutaryl-CoA)) OR AB, TI("HMG-CoA Reductase Inhibitor") OR AB, TI("HMG CoA Reductase Inhibitor") OR AB, TI(Statin) OR (AB, TI(Statins) AND AB, TI(HMG-CoA)) OR AB, TI("HMG-CoA Statins") OR (AB, TI(Statins) AND AB, TI("HMG CoA")) OR (AB, TI(Inhibitors) AND AB, TI("HMG-CoA Reductase")) OR (AB, TI(Inhibitors) AND AB, TI("HMG CoA Reductase")) OR (AB, TI("Reductase Inhibitors") AND AB, TI(HMG-CoA)) OR AB, TI("HMG-CoA Reductase Inhibitors") OR AB, TI("HMG CoA Reductase Inhibitors") OR (AB, TI(Inhibitors) AND AB, TI("Hydroxymethylglutaryl-Coenzyme A")) OR AB, TI("Hydroxymethylglutaryl-Coenzyme A Inhibitors") OR (AB, TI(Inhibitors) AND AB, TI("Hydroxymethylglutaryl Coenzyme A")) OR (AB, TI(Inhibitors) AND AB, TI(Hydroxymethylglutaryl-CoA)) OR AB, TI("Hydroxymethylglutaryl-CoA Inhibitors") OR (AB, TI(Inhibitors) AND AB, TI("Hydroxymethylglutaryl CoA")) OR AB, TI("Hydroxymethylglutaryl-CoA Reductase Inhibitor") OR AB, TI("Hydroxymethylglutaryl CoA Reductase Inhibitor") OR (AB, TI("Reductase Inhibitor") AND AB, TI(Hydroxymethylglutaryl-CoA)) OR AB, TI(Statins))	3996
2	(AB, TI("insulin secretion") OR (AB, TI(secretion) AND AB, TI(insulin)))	3891
3	(AB, TI("Islets of Langerhans") OR AB, TI("Langerhans Islets")) OR AB, TI("Pancreatic Islets") OR (AB, TI(Islet) AND AB, TI(Pancreatic)) OR (AB, TI(Islets) AND	3606

	AB,TI(Pancreatic)) OR AB,TI("Pancreatic Islet") OR (AB,TI(Pancreas) AND AB,TI(Endocrine)) OR AB,TI("Endocrine Pancreas") OR AB,TI("Islet Cells") OR (AB,TI(Cell) AND AB,TI(Islet)) OR (AB,TI(Cells) AND AB,TI(Islet)) OR AB,TI("Islet Cell") OR AB,TI("Islands of Langerhans") OR AB,TI("Langerhans Islands") OR AB,TI(Nesidioblasts) OR AB,TI(Nesidioblast))	
4	YR(20000115-20211215)	-
5	1 AND 2	19
6	2 AND 3	1086
7	1 AND 3	12
8	1 AND 2 AND 3 AND 4	6