Supplementary Material

**S1. Electronic Databases Search Strategy**

**Pubmed**

(("Hypoglycemic Agents"[Mesh] OR “antidiabetic” [tiab] OR “Hypoglycemic Agent” [tiab] OR “Antihyperglycemic Agent” [tiab] OR “Hypoglycaemic Agent” [tiab] OR “Antihyperglycaemic Agent” [tiab] OR “Hypoglycemic Agents” [tiab] OR “Antihyperglycemic Agents” [tiab] OR “Hypoglycaemic Agents” [tiab] OR “Antihyperglycaemic Agents” [tiab] OR "Dipeptidyl-Peptidase IV Inhibitors"[Mesh] OR “Dipeptidyl Peptidase IV” [tiab] OR “DPP-4” [tiab] OR “DPP 4” [tiab] OR “DPP-IV” [tiab] OR “DPP IV” [tiab] OR “Gliptins” [tiab] OR “Gliptin” [tiab] OR “Dipeptidyl Peptidase 4” [tiab] OR “Dipeptidyl-Peptidase IV Inhibitor” [tiab] OR “Dipeptidyl-Peptidase 4 Inhibitor” [tiab] OR “Dipeptidyl-Peptidase IV Inhibitors” [tiab] OR “Dipeptidyl-Peptidase 4 Inhibitors” [tiab] OR sitagliptin [tiab] OR vildagliptin [tiab] OR saxagliptin [tiab] OR alogliptin [tiab] OR linagliptin [tiab] OR gemigliptin [tiab] OR evogliptin [tiab] OR teneligliptin [tiab] OR "Adrenergic beta-Antagonists"[Mesh] OR alprenolol [Tiab] OR oxprenolol [Tiab] OR pindolol [Tiab] OR propranolol [Tiab] OR timolol [Tiab] OR sotalol [Tiab] OR nadolol [Tiab] OR mepindolol [Tiab] OR carteolol [Tiab] OR tertatolol [Tiab] OR bopindolol [Tiab] OR bupranolol [Tiab] OR penbutolol [Tiab] OR cloranolol [Tiab] OR practolol [Tiab] OR metoprolol [Tiab] OR atenolol [Tiab] OR acebutolol [Tiab] OR betaxolol [Tiab] OR bevantolol [Tiab] OR bisoprolol [Tiab] OR celiprolol [Tiab] OR esmolol [Tiab] OR epanolol [Tiab] OR s-atenolol [Tiab] OR nebivolol [Tiab] OR talinolol [Tiab] OR landiolol [Tiab] OR labetalol [Tiab] OR carvedilol [Tiab] OR “Adrenergic beta Antagonist” [Tiab] OR “Adrenergic beta-Antagonist” [Tiab] OR “Adrenergic beta Antagonists” [Tiab] OR “Adrenergic beta-Antagonists” [Tiab] OR “Beta blocker” [Tiab] OR “Beta-Blocker” [Tiab] OR “Beta blockers” [Tiab] OR “Beta-Blockers” [Tiab] OR "Angiotensin-Converting Enzyme Inhibitors"[Mesh] OR “Angiotensin Converting Enzyme” [Tiab] OR “Kininase II Inhibitor” [Tiab] OR “Kininase II Inhibitors” [Tiab] OR “Angiotensin-Converting Enzyme” [Tiab] OR “ACE Inhibitor” [Tiab] OR “ACE Inhibitors” [Tiab] OR “Angiotensin I-Converting Enzyme” [Tiab] OR “Angiotensin I Converting Enzyme” OR captopril [Tiab] OR enalapril [Tiab] OR lisinopril [Tiab] OR perindopril [Tiab] OR ramipril [Tiab] OR quinapril [Tiab] OR benazepril [Tiab] OR cilazapril [Tiab] OR fosinopril [Tiab] OR trandolapril [Tiab] OR spirapril [Tiab] OR delapril [Tiab] OR moexipril [Tiab] OR temocapril [Tiab] OR zofenopril [Tiab] OR imidapril [Tiab] OR Sacubitril [tiab] OR “neprilysin inhibitor” [tiab] OR “neprilysin inhibitors” [tiab] OR “NEP inhibitor”[tiab] OR “NEP inhibitors”[tiab]) AND ("Pneumonia, Aspiration"[Mesh] OR "Deglutition Disorders"[Mesh] OR dysphagia[Title/Abstract] OR "swallowing disorder"[Title/Abstract] OR "swallowing disorders"[Title/Abstract] OR "swallowing impairment"[Title/Abstract] OR "swallowing impairments"[Title/Abstract] OR "swallowing difficulty"[Title/Abstract] OR "swallowing difficulties"[Title/Abstract] OR "deglutition disorder"[Title/Abstract] OR "deglutition disorders"[Title/Abstract] OR "deglutition difficulty"[Title/Abstract] OR "deglutition difficulties"[Title/Abstract] OR "aspiration pneumonia"[Title/Abstract] OR pneumonia [Title/Abstract]))

**Scopus**

TITLE-ABS-KEY ( ( "antidiabetic\*" OR "Hypoglycemic Agent\*" OR "Antihyperglycemic Agent\*" OR "Hypoglycaemic Agent\*" OR "Antihyperglycaemic Agent\*" OR "Dipeptidyl-Peptidase IV Inhibitor\*" OR "Dipeptidyl Peptidase IV" OR "DPP-4" OR "DPP 4" OR "DPP-IV" OR "DPP IV" OR "Gliptin\*" OR "Dipeptidyl Peptidase 4" OR "Dipeptidyl-Peptidase 4 Inhibitor" OR "sitagliptin" OR "vildagliptin" OR "saxagliptin" OR "alogliptin" OR "linagliptin" OR "gemigliptin" OR "evogliptin" OR "teneligliptin" OR "Adrenergic beta-Antagonist\*" OR "alprenolol" OR "oxprenolol" OR "pindolol" OR "propranolol" OR "timolol" OR "sotalol" OR "nadolol" OR "mepindolol" OR "carteolol" OR "tertatolol" OR "bopindolol" OR "bupranolol" OR "penbutolol" OR "cloranolol" OR "practolol" OR "metoprolol" OR "atenolol" OR "acebutolol" OR "betaxolol" OR "bevantolol" OR "bisoprolol" OR "celiprolol" OR "esmolol" OR "epanolol" OR "s-atenolol" OR "nebivolol" OR "talinolol" OR "landiolol" OR "labetalol" OR "carvedilol" OR "Adrenergic beta Antagonist\*" OR "Adrenergic beta-Antagonist\*" OR "Beta blocker\*" OR "Beta-Blocker\*" OR "Angiotensin-Converting Enzyme Inhibitor\*" OR "Angiotensin Converting Enzyme" OR "Kininase II Inhibitor\*" OR "Angiotensin-Converting Enzyme" OR "ACE Inhibitor\*" OR "Angiotensin I-Converting Enzyme" OR "Angiotensin I Converting Enzyme" OR "captopril" OR "enalapril" OR "lisinopril" OR "perindopril" OR "ramipril" OR "quinapril" OR "benazepril" OR "cilazapril" OR "fosinopril" OR "trandolapril" OR "spirapril" OR "delapril" OR "moexipril" OR "temocapril" OR "zofenopril" OR "imidapril" OR "Sacubitril" OR "neprilysin inhibitor\*" OR "NEP inhibitor\*" ) AND ( "Deglutition Disorder\*" OR "dysphagia" OR "swallowing disorder\*" OR "swallowing impairment\*" OR "swallowing difficult\*" OR "deglutition difficult\*" OR "deglutition impairment\*" OR "aspiration pneumonia" ) )

**Embase**

(('antidiabetic agent'/exp OR 'antidiabetes drug':ti,ab,kw OR 'antidiabetic':ti,ab,kw OR 'antidiabetic agent':ti,ab,kw OR 'antidiabetic agents':ti,ab,kw OR 'antidiabetic drug':ti,ab,kw OR 'antidiabetics':ti,ab,kw OR 'antidiabeticum':ti,ab,kw OR 'hypoglycaemic':ti,ab,kw OR 'hypoglycaemic agent':ti,ab,kw OR 'hypoglycaemic agents':ti,ab,kw OR 'hypoglycaemic compound':ti,ab,kw OR 'hypoglycaemic drug':ti,ab,kw OR 'hypoglycaemicising sulfonamide':ti,ab,kw OR 'hypoglycemic':ti,ab,kw OR 'hypoglycemic agent':ti,ab,kw OR 'hypoglycemic agents':ti,ab,kw OR 'hypoglycemic compound':ti,ab,kw OR 'hypoglycemic drug':ti,ab,kw OR 'hypoglycemicizing sulfonamide':ti,ab,kw OR 'hypoglycemizing agent':ti,ab,kw OR 'dipeptidyl peptidase iv inhibitor'/exp OR 'dpp 4 inhibitor':ti,ab,kw OR 'dpp iv inhibitor':ti,ab,kw OR 'dipeptidyl peptidase 4 inhibitor':ti,ab,kw OR 'dipeptidyl peptidase iv inhibitor':ti,ab,kw OR 'dipeptidyl peptidase iv inhibitors':ti,ab,kw OR 'dipeptidyl-peptidase iv inhibitors':ti,ab,kw OR 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OR 'b-vasc':ti,ab,kw OR 'betablok':ti,ab,kw OR 'betacar':ti,ab,kw OR 'betarol':ti,ab,kw OR 'betatop ge':ti,ab,kw OR 'beten':ti,ab,kw OR 'bloket':ti,ab,kw OR 'blokium':ti,ab,kw OR 'blotex':ti,ab,kw OR 'cardioten':ti,ab,kw OR 'catenol':ti,ab,kw OR 'coratol':ti,ab,kw OR 'corotenol':ti,ab,kw OR 'durabeta':ti,ab,kw OR 'esatenolol':ti,ab,kw OR 'evitocor':ti,ab,kw OR 'farnormin':ti,ab,kw OR 'felo-bits':ti,ab,kw OR 'hypernol':ti,ab,kw OR 'hypoten':ti,ab,kw OR 'internolol':ti,ab,kw OR 'lo-ten':ti,ab,kw OR 'loten':ti,ab,kw OR 'lotenal':ti,ab,kw OR 'martenol':ti,ab,kw OR 'mirobect':ti,ab,kw OR 'myocord':ti,ab,kw OR 'neotenol':ti,ab,kw OR 'nolol':ti,ab,kw OR 'normalol':ti,ab,kw OR 'normaten':ti,ab,kw OR 'normiten':ti,ab,kw OR 'nortelol':ti,ab,kw OR 'noten':ti,ab,kw OR 'oraday':ti,ab,kw OR 'ormidol':ti,ab,kw OR 'paesumex':ti,ab,kw OR 'plenacor':ti,ab,kw OR 'preloc':ti,ab,kw OR 'premorine':ti,ab,kw OR 'prenolol':ti,ab,kw OR 'prenormine':ti,ab,kw OR 'ranlol':ti,ab,kw OR 'rozamin':ti,ab,kw OR 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'dysphagias' OR 'swallowing difficult' OR 'swallowing difficultness' OR 'swallowing difficulty' OR 'swallowing disorder' OR 'aspiration pneumonia'/mj OR 'aspiration pneumonia' OR 'aspiration pneumonitis' OR 'deglutition pneumonia' OR 'pneumonia, aspiration'))

**CINAHL**

1. ( (MH "Hypoglycemic Agents+") OR (MH "Dipeptidyl Peptidase 4 Inhibitors+") OR (MH "Adrenergic Beta-Antagonists+") OR (MH "Angiotensin-Converting Enzyme Inhibitors+") ) OR ( “antidiabetic” OR “Hypoglycemic Agent” OR “Antihyperglycemic Agent” OR “Hypoglycaemic Agent” OR “Antihyperglycaemic Agent” OR “Hypoglycemic Agents” OR “Antihyperglycemic Agents” OR “Hypoglycaemic Agents” OR “Antihyperglycaemic Agents” OR “Dipeptidyl Peptidase IV” OR “DPP-4” OR “DPP 4” OR “DPP-IV” OR “DPP IV” OR “Gliptins” OR “Gliptin” OR “Dipeptidyl Peptidase 4” OR “Dipeptidyl-Peptidase IV Inhibitor” OR “Dipeptidyl-Peptidase 4 Inhibitor” OR “Dipeptidyl-Peptidase IV Inhibitors” OR “Dipeptidyl-Peptidase 4 Inhibitors” OR sitagliptin OR vildagliptin OR saxagliptin OR alogliptin OR linagliptin OR gemigliptin OR evogliptin OR teneligliptin OR alprenolol OR oxprenolol OR pindolol OR propranolol OR timolol OR sotalol OR nadolol OR mepindolol OR carteolol OR tertatolol OR bopindolol OR bupranolol OR penbutolol OR cloranolol OR practolol OR metoprolol OR atenolol OR acebutolol OR betaxolol OR bevantolol OR bisoprolol OR celiprolol OR esmolol OR epanolol OR s-atenolol OR nebivolol OR talinolol OR landiolol OR labetalol OR carvedilol OR “Adrenergic beta Antagonist” OR “Adrenergic beta-Antagonist” OR “Adrenergic beta Antagonists” OR “Adrenergic beta-Antagonists” OR “Beta blocker” OR “Beta-Blocker” OR “Beta blockers” OR “Beta-Blockers” OR “Angiotensin Converting Enzyme” OR “Kininase II Inhibitor” OR “Kininase II Inhibitors” OR “Angiotensin-Converting Enzyme” OR “ACE Inhibitor” OR “ACE Inhibitors” OR “Angiotensin I-Converting Enzyme” OR “Angiotensin I Converting Enzyme” OR captopril OR enalapril OR lisinopril OR perindopril OR ramipril OR quinapril OR benazepril OR cilazapril OR fosinopril OR trandolapril OR spirapril OR delapril OR moexipril OR temocapril OR zofenopril OR imidapril OR Sacubitril OR “neprilysin inhibitor” OR “neprilysin inhibitors” OR “NEP inhibitor” OR “NEP inhibitors” )
2. ( (MH "Pneumonia, Aspiration") OR (MH "Deglutition Disorders") ) OR AB ( ( dysphagia OR 'swallowing disorder' OR 'swallowing disorders' OR 'swallowing impairment' OR 'swallowing impairments' OR 'swallowing difficulty' OR 'swallowing difficulties' OR 'deglutition disorder' OR 'deglutition disorders' OR 'deglutition difficulty' OR 'deglutition difficulties' OR 'deglutition impairment' OR 'deglutition impairments' OR 'aspiration pneumonia' OR pneumonia ) )
3. #1 AND #2

**Cochrane**

**1.** MeSH descriptor: [Deglutition Disorders] explode all trees

**2.** MeSH descriptor: [Pneumonia, Aspiration] this term only

**3.** (dysphagia OR 'swallowing disorder' OR 'swallowing disorders' OR 'swallowing impairment' OR 'swallowing impairments' OR 'swallowing difficulty' OR 'swallowing difficulties' OR 'deglutition disorder' OR 'deglutition disorders' OR 'deglutition difficulty' OR 'deglutition difficulties' OR 'deglutition impairment' OR 'deglutition impairments' OR 'aspiration pneumonia' OR pneumonia):ti,ab,kw

**4.** #1 OR #2 OR #3

**5.** MeSH descriptor: [Hypoglycemic Agents] explode all trees

**6.** MeSH descriptor: [Dipeptidyl-Peptidase IV Inhibitors] explode all trees

**7.** MeSH descriptor: [Adrenergic beta-Antagonists] explode all trees

**8.** MeSH descriptor: [Angiotensin-Converting Enzyme Inhibitors] explode all trees

**9.** (“antidiabetic” OR “Hypoglycemic Agent” OR “Antihyperglycemic Agent” OR “Hypoglycaemic Agent” OR “Antihyperglycaemic Agent” OR “Hypoglycemic Agents” OR “Antihyperglycemic Agents” OR “Hypoglycaemic Agents” OR “Antihyperglycaemic Agents” OR “Dipeptidyl Peptidase IV” OR “DPP-4” OR “DPP 4” OR “DPP-IV” OR “DPP IV” OR “Gliptins” OR “Gliptin” OR “Dipeptidyl Peptidase 4” OR “Dipeptidyl-Peptidase IV Inhibitor” OR “Dipeptidyl-Peptidase 4 Inhibitor” OR “Dipeptidyl-Peptidase IV Inhibitors” OR “Dipeptidyl-Peptidase 4 Inhibitors” OR sitagliptin OR vildagliptin OR saxagliptin OR alogliptin OR linagliptin OR gemigliptin OR evogliptin OR teneligliptin OR alprenolol OR oxprenolol OR pindolol OR propranolol OR timolol OR sotalol OR nadolol OR mepindolol OR carteolol OR tertatolol OR bopindolol OR bupranolol OR penbutolol OR cloranolol OR practolol OR metoprolol OR atenolol OR acebutolol OR betaxolol OR bevantolol OR bisoprolol OR celiprolol OR esmolol OR epanolol OR s-atenolol OR nebivolol OR talinolol OR landiolol OR labetalol OR carvedilol OR “Adrenergic beta Antagonist” OR “Adrenergic beta-Antagonist” OR “Adrenergic beta Antagonists” OR “Adrenergic beta-Antagonists” OR “Beta blocker” OR “Beta-Blocker” OR “Beta blockers” OR “Beta-Blockers” OR “Angiotensin Converting Enzyme” OR “Kininase II Inhibitor” OR “Kininase II Inhibitors” OR “Angiotensin-Converting Enzyme” OR “ACE Inhibitor” OR “ACE Inhibitors” OR “Angiotensin I-Converting Enzyme” OR “Angiotensin I Converting Enzyme” OR captopril OR enalapril OR lisinopril OR perindopril OR ramipril OR quinapril OR benazepril OR cilazapril OR fosinopril OR trandolapril OR spirapril OR delapril OR moexipril OR temocapril OR zofenopril OR imidapril OR Sacubitril OR “neprilysin inhibitor” OR “neprilysin inhibitors” OR “NEP inhibitor” OR “NEP inhibitors”):ti,ab,kw

**10.** #5 OR #6 OR #7 OR #8 OR #9

**11.** #4 AND #10