Supplementary Information

1. Literature Search strategy

1a. PubMed

Spectroscopic OR "NMR Spectroscopic" OR "Resonance Spectroscopic" OR "energy expenditure"[tiab] OR "Energy Metabolism"[Mesh:NoExp] OR "Basal Metabolism"[Mesh] OR "Basal Metabolism" OR "Basal Metabolic Rate" OR "Basal Metabolic Rates" OR "metabolic syndrome" OR ("oral glucose tolerance test" OR "oral glucose tolerance tests" OR (oral[tw] AND "glucose tolerance test"[MeSH Terms]) OR OGTT[tw]) AND ("insulin secretion" OR "Insulin/secretion"[Mesh] OR "pancreatic function" OR "beta cell function" OR "pancreas function" OR "Islets of Langerhans/secretion"[Mesh] OR "Insulin-Secreting Cells"[Mesh]) OR "Glucose Clamp Technique"[Mesh] OR "Glucose Clamp" OR "Glucose Clamping" OR "Euglycaemic Clamping" OR "Euglycemic Clamp" OR "Euglycemic Clamps" OR "Euglycaemic Clamp" OR "Euglycaemic Clamps" OR "Glucose Clamps" OR "hyperinsulinemic clamp" OR "hyperinsulinemic clamps" OR "hyperinsulinaemic clamp" OR "hyperinsulinaemic clamps" OR "insulin sensitivity" OR "insulin resistance" OR "Insulin Resistance"[Mesh] OR "mitochondrial function" OR "mitochondrial dysfunction" OR mitochondrial OR mitochondria OR "Obesity, Abdominal"[Mesh] OR "Central Obesity" OR "Visceral Obesity" OR (Biopsy AND ("Muscle, Skeletal"[mesh] OR "skeletal muscle" OR "skeletal muscles" OR fat OR Adipose Tissue)) OR cardio-metabolic OR cardiometabolic OR cardiometabol* OR ("cardiac function" OR "systolic function" OR "diastolic function" OR "cardiac functions" OR "systolic functions" OR "diastolic functions" OR "cardiac dysfunction" OR "systolic dysfunction" OR "diastolic dysfunction" OR "cardiac dysfunctions" OR "systolic dysfunctions" OR "diastolic dysfunctions" OR "pulse wave velocity" OR blood flow velocity) AND (mri OR magnetic resonance OR magnetic resonance imaging)) OR (endothelium[Mesh] OR “endothelial dysfunction”) OR “adipokines”[Mesh] OR “inflammation”[Mesh]) AND english[la] NOT ("animals"[mesh] NOT "humans"[mesh])
(hindustani.ti OR hindustan*.ti OR "south asians".ti OR "south asian".ti OR Bangladesh.ti OR India.ti OR Pakistan.ti OR Pakistan*.ti OR (India*.ti AND asian*.ti) OR indoasian*.ti OR "indo asian".ti OR "indo asians".ti OR surinamese.ti OR "sri lanka".ti OR *south asia/ or *bangladesh/ or *india/ or *pakistan/ or *sri lanka/ OR *asian/ or *indian/) AND (exp non insulin dependent diabetes mellitus/ OR ("Ketosis-Resistant Diabetes" OR "Non-Insulin-Dependent Diabetes" OR "Type 2 Diabetes" OR "Stable Diabetes" OR "Maturity-Onset Diabetes" OR MODY OR NIDDM OR "Adult-Onset Diabetes").mp OR diabetes.ti OR diabetic.ti OR "ectopic fat*".mp OR "liver fat*".mp OR "brown fat*" OR "Brown Adipose Tissue".mp OR brown adipose tissue/ OR "hepatic fat*".mp OR intraabdominal fat/ OR "visceral fat*".mp OR "Visceral Adipose Tissue".mp OR "cardiac fat*".mp OR "pericardial fat*".mp OR "subcutaneous fat*".mp OR Subcutaneous Fat/ OR imcl.mp OR "intramyocellular lipid*".mp OR "intramyocellular triglyceride*".mp OR lipotoxicity/ OR lipox*.mp OR adiponectin/ OR adiponectin*.mp OR "hepatic triglyceride*".mp OR "liver triglyceride*".mp OR "myocardial triglyceride*".mp OR "cardiac triglyceride*" OR "body fat distribution".mp OR Body Fat Distribution/ OR Adiposity.mp OR "Waist-Hip Ratio".mp OR waist hip ratio/ OR nuclear magnetic resonance spectroscopy/ OR mrs.ti OR "magnetic resonance spectroscop*".mp OR "MR Spectroscop*".mp OR "NMR Spectroscop*".mp OR "Resonance Spectroscop*".mp OR "energy expenditure".mp OR energy expenditure/ OR "Basal Metabolism".mp OR "Basal Metabolic Rate*".mp OR Basal Metabolic Rate/ OR "metabolic syndrome".mp OR metabolic syndrome X/ OR ("oral glucose tolerance test*".mp OR oral glucose tolerance test/ OR OGT T.mp) AND ("insulin secretion".mp OR insulin release/ OR "pancreatic function*".mp OR exp pancreas function/ OR "beta cell function*".mp OR "pancreas function*.mp" OR pancreas islet beta cell/) OR glucose clamp
technique/ OR "Glucose Clamp*".mp OR "Euglycaemic Clamp*".mp OR "Euglycaemic Clamp*".mp OR "hyperinsulinemic clamp*".mp OR "hyperinsulinaemic clamp*".mp OR "insulin sensitivity".mp OR insulin sensitivity/ OR "insulin resistance".mp OR insulin resistance/ OR mitochondri*.mp OR abdominal obesity/ OR "Central Obesity".mp OR diabetic obesity/ OR "Visceral Obesity".mp OR ((Biopsy.mp OR exp biopsy/) AND (exp Skeletal Muscle/ OR "skeletal muscle*".mp OR fat.mp OR Adipose Tissue.mp OR exp adipose tissue/)) OR cardiometabolic.mp OR cardiometabolic.mp OR cardiometabo*.mp OR (("cardiac function" OR "systolic function" OR "diastolic function" OR "cardiac functions" OR "systolic functions" OR "diastolic functions" OR "cardiac dysfunction" OR "systolic dysfunction" OR "diastolic dysfunction" OR "cardiac dysfunctions" OR "systolic dysfunctions" OR "diastolic dysfunctions" OR "pulse wave velocity" OR blood flow velocity) AND (mri OR magnetic resonance OR magnetic resonance imaging)).mp) AND english AND exp human/

Ic. Web of Science

TI=(hindustani OR hindustan* OR "south asians" OR "south asian" OR Bangladesh OR India OR Pakistan OR Pakistan* OR (India* AND asian*) OR indoasian* OR "indo asian" OR "indo asians" OR surinamese OR "sri lanka") AND (TI=diabet* OR TS=("Ketosis-Resistant Diabetes" OR "Non-Insulin-Dependent Diabetes" OR "Type 2 Diabetes" OR "Stable Diabetes" OR "Maturity-Onset Diabetes" OR MODY OR NIDDM OR "Adult-Onset Diabetes" OR "ectopic fat*" OR "liver fat*" OR "brown fat*" OR "Brown Adipose Tissue" OR brown adipose tissue OR "hepatic fat*" OR intraabdominal fat OR "visceral fat*" OR "Visceral Adipose Tissue" OR "cardiac fat*" OR "pericardial fat*" OR "subcutaneous fat*" OR Subcutaneous Fat OR imcl OR "intramyocellular lipid*" OR "intramyocellular triglyceride*" OR lipotoxicity OR lipotox* OR
adiponectin OR adiponectin* OR "hepatic triglyceride*" OR "liver triglyceride*" OR "myocardial triglyceride*" OR "cardiac triglyceride*" OR "body fat distribution" OR Body Fat Distribution OR Adiposity OR "Waist-Hip Ratio" OR waist hip ratio OR nuclear magnetic resonance spectroscopy OR mrs.ti OR "magnetic resonance spectroscopy" OR "MR Spectroscopy*" OR "NMR Spectroscopy*" OR "Resonance Spectroscopy" OR "energy expenditure" OR energy expenditure OR "Basal Metabolism" OR "Basal Metabolic Rate*" OR Basal Metabolic Rate OR "metabolic syndrome" OR metabolic syndrome X OR ("oral glucose tolerance test*" OR oral glucose tolerance test OR OGGT) AND ("insulin secretion" OR insulin release OR "pancreatic function*" OR exp pancreas function OR "beta cell function*" OR "pancreas function*" OR pancreas islet beta cell)) OR glucose clamp technique OR "Glucose Clamp*" OR "Euglycaemic Clamp*" OR "Euglycaemic Clamp*" OR "hyperinsulinemic clamp*" OR "hyperinsulinaemic clamp*" OR "insulin sensitivity" OR insulin sensitivity OR "insulin resistance" OR insulin resistance OR mitochondri* OR abdominal obesity OR "Central Obesity" OR diabetic obesity OR "Visceral Obesity" OR ((Biopsy OR exp biopsy) AND (exp Skeletal Muscle OR "skeletal muscle*" OR fat OR Adipose Tissue OR exp adipose tissue)) OR cardio-metabolic OR cardiometabolic OR cardiometabo* OR ("cardiac function" OR "systolic function" OR "diastolic function" OR "cardiac functions" OR "systolic functions" OR "diastolic functions" OR "cardiac dysfunction" OR "systolic dysfunction" OR "diastolic dysfunction" OR "cardiac dysfunctions" OR "systolic dysfunctions" OR "diastolic dysfunctions" OR "pulse wave velocity" OR blood flow velocity) AND (mri OR magnetic resonance OR magnetic resonance imaging))) AND la=english NOT TI=(animal* OR buffalo* OR wasp* OR rat OR rats OR mice OR mouse) AND TS=(human* OR patient*)
1d. Cochrane Library

#1 (hindustani or hindustan* or "south asians" or "south asian" or Bangladesh or India or Pakistan or Pakistan* or (India* and asian*) or indoasian* or "indo asian" or "indo asians" or surinamese or "sri lanka"):ti,ab,kw (Word variations have been searched)

#2 (hindustani or hindustan* or "south asians" or "south asian" or indoasian* or "indo asian" or "indo asians" or surinamese) (Word variations have been searched)

#3 "Ketosis-Resistant Diabetes" or "Non-Insulin-Dependent Diabetes" or "Type 2 Diabetes" or "Stable Diabetes" or "Maturity-Onset Diabetes" or MODY or NIDDM or "Adult-Onset Diabetes" or "ectopic fat*" or "liver fat*" or "brown fat*" or "Brown Adipose Tissue" or brown adipose tissue or "hepatic fat*" or intraabdominal fat or "visceral fat*" or "Visceral Adipose Tissue" or "cardiac fat*" or "pericardial fat*" or "subcutaneous fat*" or Subcutaneous Fat or imcl:ti,ab,kw (Word variations have been searched)

#4 "intramyocellular lipid*" or "intramyocellular triglyceride*" or lipotoxicity or lipotox* or adiponectin or adiponectin* or "hepatic triglyceride*" or "liver triglyceride*" or "myocardial triglyceride*" or "cardiac triglyceride*" or "body fat distribution" or Body Fat Distribution or Adiposity or "Waist-Hip Ratio" or waist hip ratio or nuclear magnetic resonance spectroscopy or mrs.ti or "magnetic resonance spectroscop*" or "MR Spectroscop*" or "NMR Spectroscop*":ti,ab,kw (Word variations have been searched)

#5 "Resonance Spectroscop*" or "energy expenditure" or energy expenditure or "Basal Metabolism" or "Basal Metabolic Rate*" or Basal Metabolic Rate or "metabolic syndrome" or metabolic syndrome X or ("oral glucose tolerance test*" or oral glucose tolerance test or OGTT) and ("insulin secretion" or insulin release or "pancreatic function*" or exp pancreas function or "beta cell function*" or "pancreas function*" or pancreas islet beta cell)) or glucose clamp
technique or "Glucose Clamp*" or "Euglycaemic Clamp*" or "Euglycaemic Clamp*":ti,ab,kw
(Word variations have been searched)

#6 "hyperinsulinemic clamp*" or "hyperinsulinaemic clamp*" or "insulin sensitivity" or insulin sensitivity or "insulin resistance" or insulin resistance or mitochondri* or abdominal obesity or "Central Obesity" or diabetic obesity or "Visceral Obesity" or ((Biopsy or exp biopsy) and (exp Skeletal Muscle or "skeletal muscle*" or fat or Adipose Tissue or exp adipose tissue)):ti,ab,kw (Word variations have been searched)

#7 cardio-metabolic or cardiometabolic or cardiometabo* or ("cardiac function" or "systolic function" or "diastolic function" or "cardiac functions" or "systolic functions" or "diastolic functions" or "cardiac dysfunction" or "systolic dysfunction" or "diastolic dysfunction" or "cardiac dysfunctions" or "systolic dysfunctions" or "diastolic dysfunctions" or "pulse wave velocity" or blood flow velocity) and (mri or magnetic resonance or magnetic resonance imaging)):ti,ab,kw (Word variations have been searched)

#8 (#1 or #2) and (#3 or #4 or #5 or #6 or #7)