Additional file 2

Data extraction form adapted from Hayden et al Framework

Abbreviation

IGTImpaired Glucose ToleranceCKDChronic Kidney DiseaseT2DMType 2 DiabetesSCrSerum CreatinineCrClCreatinine ClearanceESRDEnd Stage Renal DiseaseACRAlbumin Creatinine RatioPCRProtein Creatinine RatioEXExcludedNRNot ReportedaGEREstimated Glomerular Eiltration Pate		
T2DMType 2 DiabetesSCrSerum CreatinineCrClCreatinine ClearanceESRDEnd Stage Renal DiseaseACRAlbumin Creatinine RatioPCRProtein Creatinine RatioEXExcludedNRNot Reported	IGT	Impaired Glucose Tolerance
SCrSerum CreatinineCrClCreatinine ClearanceESRDEnd Stage Renal DiseaseACRAlbumin Creatinine RatioPCRProtein Creatinine RatioEXExcludedNRNot Reported	CKD	Chronic Kidney Disease
CrClCreatinine ClearanceESRDEnd Stage Renal DiseaseACRAlbumin Creatinine RatioPCRProtein Creatinine RatioEXExcludedNRNot Reported	T2DM	Type 2 Diabetes
ESRDEnd Stage Renal DiseaseACRAlbumin Creatinine RatioPCRProtein Creatinine RatioEXExcludedNRNot Reported	SCr	Serum Creatinine
ACR Albumin Creatinine Ratio PCR Protein Creatinine Ratio EX Excluded NR Not Reported	CrCl	Creatinine Clearance
PCR Protein Creatinine Ratio EX Excluded NR Not Reported	ESRD	End Stage Renal Disease
EX Excluded NR Not Reported	ACR	Albumin Creatinine Ratio
NR Not Reported	PCR	Protein Creatinine Ratio
	EX	Excluded
eGER Estimated Glomerular Eiltration Bate	NR	Not Reported
	eGFR	Estimated Glomerular Filtration Rate

Eligibility criteria for title and abstract screening phase

Study design	Assessment	Comment
ls it:	Yes	
[1] A cohort study (Prospective or Retrospective)	No	
[2] A case-control or nested case-control study	Unclear	
Population		
[1] Were patients diagnosed with IGT?	Yes	
[2] Were patients followed up for T2DM	No	
	Unclear	
NB: Please answer Yes if IGT diagnosed in a sub group		
Are patients aged (18-40) years	Yes	
	No	
NB: Please answer Yes if mixed age population	Unclear	

Study design		Assessment	Comment
Outcomes			
Did the	e study report any of the following outcome:	Yes	
Stage	eGFR (ml/min/1.73m ²)	No	
3A	45-59	Unclear	
3B	30-44		
4	15-29		
5	<15		
	stage 5)		
Album			
	>30mg/mmol		
	>45mg/mmol		
	easures		
CrCl m	easures		
Follow			
Were	the patients followed up and adequate measures	Yes	
taken		No	
		Unclear	
	ease answer Yes if adequate measure were taken y characteristics described		
Final d	lecision (please tick)	Include Exclude Unclear	

Exclusion criteria

Reasons for exclusion of study from review (please circle where appropriate)			
Methods	Not a cohort/case-control study		
Patients	No IGT/no T2DM follow up/T2DM or Type 1 diabetes		
	diagnosis /CKD /no (18 to 40 years) age group		
Outcomes	No relevant outcomes assessed		
	No data for relevant subgroup extractable		
Follow up period	No follow up		
Other	Duplicate publication		
	Other		

Inclusion criteria

Specific inclusion criteria (please include if answer is Yes to all questions below)			
Eligibility criteria			
Satisfaction of eligibility criteria	Yes		
	No		
	Unclear		
Effect sizes			
Is there sufficient reporting of statistics or data	Yes		
to calculate effect sizes	No		
	Unclear		

Organisation

Organisational aspect		Exclude		Include
Reviewer/date:		Checked by:		
Author/Year				
Journal/Source				
Country of origin				
Publication type	Full text/Abstract/Book chapter/progress report/			
	Other – please specify			
Fate	Decision pending/Check references/Use for discussion/EX without			
	listing/EX with listing			
	Other – please specify			
Notes				

Study characteristics

General study characteristics (please circle whe	re appropriate)			
Location of study				
Study aims	Reported/NR			
Dates of recruitment	From to			
	Median (range): #			
	Mean:#			
Length of follow up of CKD outcome + length	From to			
of follow up of study	Median (range): #			
	Mean:#			
Outcomes assessed	Did the study report any of the following outcome:			
	Stage eGFR (ml/min/1.73m ²)			
	3A 45-59			
	3B 30-44			
	4 15-29			
	5 <15			
	End Stage Renal Disease (stage 5)			
	Albumin creatinine ratio - >30mg/mmol			
	Protein creatinine ratio - >45mg/mmol			
	Serum creatinine measures			
	Creatinine clearance measures			
	Other (please specify):			
Outcome definition				
Relationship between outcome and relevant	Is the relationship statistically significant?			
factor	Yes/No			
	RR/OR: #			
	If No, is it due to			
	Low powered or inconclusive study/A true negative			
	study			
Power calculation	Yes/No/Not reported			
	Calculated sample size: #			
	Sample size achieved: Yes/No			
Funding	Unclear			
	NR			
	Please state where reported			
Conflict of interest statement	Yes/No/NR			

Baseline character	istics of patients	(please circle wh	ere appropriate)	
		Exposure	Control	Notes: any relationship with outcomes? Yes/No/NR If Yes please state if statistically significant and RR/OR values
Overall comment:		nificant		
Number of patient				
Age range (if repor Mean	ted)			
Ethnicity No%				
Gender		Male:	Male:	
No%		Female:	Female:	
No of patients scre	ened for IGT			
No of patients recr				
No of patients allo				
No of patients eval				
No of dropouts				
Reasons for dropo	uts			
•				
Number of protocol violations				
Definition of IGT				
Fasting plasma glucose	6.1-6.9 mmol/L			
Oral Glucose	7.8-11.0			
Tolerance test	mmol/L			
(2h value)				
HbA1c	42-47 mmol/mol			
Please circle all th list all	nat applies and			
Status of patient a	t recruitment			
Any treatment for any comorbidities				
If treated: Please state				
What treatment				
Duration				
Adverse event? Yes/No				
If Yes please state				

Observational study characteristics (please circle where appropriate)				
Sample size				
Number of excluded patients				
Recruitment method				
Type of observational study	Cohort studies (retrospective/prospective)			
	Case-control studies/nested case-control			
Are group comparable?	Yes/No			
	If No, please specify			
Any confounders?	Yes/No			
	If No, please specify			
Analysis				
Drop outs stated	Yes/No			
	If Yes: # in each group			

Outcome details

The following table have to be copied for every relevant outcome assessed (please fill out fields only where applicable)

Outcomes assessed (please state where relevant)	
Definition of each outcome	
Time of assessment of each outcome (post IGT)	
Timing of assessment	
Length of follow up for each outcome	
Method of measurement	
No of patients evaluated for each outcome, as	
stated above	

Methodological quality summary for observational studies					
Reviewer/Date:			Checked b	yy:	
Contents (please refer to tables below for guidance	Yes	Partly	No	Unsure	Comments
Study participation					
Study attrition Measurement of prognostic factors					
Measurement and controlling for confounding variables					
Measurement of outcomes					
Analysis approach					
Summarised validity	Low risk o	f bias	Moderate	risk of bias	High risk of bias
Remarks:					