

Appendix 1: Search Strategy

Search Strategy:

MEDLINE

- 1 renal insufficiency, chronic.mp. or exp Renal Insufficiency, Chronic/
- 2 exp Kidney Failure, Chronic/ or kidney failure, chronic.mp.
- 3 renal dialysis.mp. or exp Renal Dialysis/
- 4 ESRD.mp.
- 5 End stage kidney disease.mp.
- 6 End stage renal disease.mp.
- 7 peritoneal dialysis.mp. or exp Peritoneal Dialysis/
- 8 exp Metabolic Syndrome X/ or metabolic syndrome.mp.
- 9 insulin resistance.mp. or exp Insulin Resistance/
- 10 exp Obesity, Abdominal/
- 11 1 or 2 or 3 or 4 or 5 or 6 or 7
- 12 8 or 9 or 10
- 13 11 and 12

Embase

SEARCH QUERY

((('metabolic syndrome'/exp and [embase]/lim) or ('insulin resistance'/exp and [embase]/lim) or ('prediabetic stage'/exp and [embase]/lim) or ('abdominal obesity'/exp and [embase]/lim) or ('metabolic syndrome' and [embase]/lim) or ('abdominal obesity' and [embase]/lim) or ('abdominal obese' and [embase]/lim) or ('mets' and [embase]/lim) or ('insulin resistance syndrome' and [embase]/lim)) and ((('chronic renal failure'/exp and [embase]/lim) or ('dialysis'/exp and [embase]/lim) or ('uremia'/exp and [embase]/lim) or ('hemodialysis'/exp and [embase]/lim) or ('peritoneal dialysis'/exp and [embase]/lim) or ('hemofiltration'/exp and [embase]/lim) or ('hemodiafiltration'/exp and [embase]/lim) or (hemodialys* and [embase]/lim) or (uremia and [embase]/lim) or (crf and [embase]/lim) or (ckf and [embase]/lim) or (haemodialys* and [embase]/lim) or ('peritoneal dialysis' and [embase]/lim) or ('peritoneal dialysed' and [embase]/lim) or ('peritoneal dialyse' and [embase]/lim) or ('hemofiltration' and [embase]/lim) or ('haemofiltration' and [embase]/lim) or ('hemodiafiltration' and [embase]/lim) or ('haemodiafiltration' and [embase]/lim)) and [humans]/lim

Cochrane

- #1 MeSH descriptor: [Metabolic Syndrome X] explode all trees
- #2 MeSH descriptor: [Insulin Resistance] explode all trees
- #3 MeSH descriptor: [Prediabetic State] explode all trees
- #4 MeSH descriptor: [Obesity, Abdominal] explode all trees
- #5 metabolic syndrome
- #6 abdominal obes*
- #7 Insulin resistance syndrome
- #8 Mets
- #9 MeSH descriptor: [Renal Insufficiency, Chronic] explode all trees 3860
- #10 MeSH descriptor: [Kidney Failure, Chronic] explode all trees 3459
- #11 MeSH descriptor: [Renal Dialysis] explode all trees 4396
- #12 MeSH descriptor: [Uremia] explode all trees 407
- #13 ESRD 903
- #14 End stage renal 3283
- #15 End stage kidney 2373
- #16 CKF
- #17 CRF
- #18 renal failure
- #19 hemodialys*
- #20 kidney failure
- #21 peritoneal dialys*
- #22 hemofiltration
- #23 hemodiafiltration
- #24 uremi*
- #25 haemodialys*
- #26 haemodiafiltration
- #27 haemofiltration
- #28 #9 or #10 or #11 or #12 or #13 or #14 or #15 or #16 or #17 or #18 or #19 or #20 #21 or #22 or #23 or #24 or #25 or #26 or #27

#29 #1 or #2 or #3 or #4 or #5 or #6 or #7 or #8

#30 #28 and #29

Appendix 2

Group by	Study name	Statistics for each study		
		Risk ratio	Lower limit	Upper limit
Factors adjustment	Liao 2011	3.657	1.904	7.024
	Xie 2012	0.676	0.315	1.451
	Yang 2007	1.023	0.595	1.757
	Wu 2011	2.300	0.789	6.706
	Prasad 2013	7.420	3.049	18.056
	Vogt 2014	2.640	1.061	6.568
No adjustment		2.144	1.052	4.371
With adjustment	Liao 2011	2.064	1.278	3.334
	Park 2010	3.830	1.111	13.208
	Prasad 2013	5.390	2.057	14.121
With adjustment		3.039	1.606	5.751

