## **Data Extraction Form**

Reviewer:							
First author:							
Year of public	cation:						
1. Study Des	ign_						
What is the st	audy design?						
	Case control						
	Cohort						
		Prospective					
		Retrospective					
	Other:						
Is the study si	ingle-centred o	r multi-centred?					
	Single-centre	d					
	Multi-centred						
What is the to	otal number of	participants?					
N = 1		participants					
Are the method	ods for recruitn	nent and sampling clearly stated?					
	Yes						
	No						
If so, how were patients recruited?							
Was ethical a	pproval stated?	·					
	e inclusion and	exclusion criteria for participants? (AVF patients)					

	Exclu	usion ia:
What wa	as the	AV fistula outcome being assessed?
		AV fistula failure
		Primary AV fistula failure
		AV fistula dysfunction
		AV fistula thrombosis
		Other:
Was a d	efiniti	on of a working provided?
		No
		Yes
		State:
How wa		outcome diagnosed? (can tick more than one box)
		Clinical signs (i.e. inspection, palpation, auscultation)
		Dialysis failure
		Ultrasonography
		Angiogram/ fistulogram
		Unclear
		Other:
State the	e timir	ng of blood collection:
		At AV fistula construction (i.e. peri-operative)
		At AV fistula failure
		At specified follow-up time. State
		Unclear
		Other. State

2a. Case co	ntrol analysis
	mber of cases and controls.
Cas	ses = Definition:
Co	ntrols =
Is the case g	roup further divided into subgroups?
	Yes, state subgroups and number:
	No
Were cases	and controls matched for confounding factors?
	Yes,
	No
	Prospective study (cases & controls derived from common baseline population)
If so,	list matched confounding factors (e.g. age, gender):
2b. Cohort	
At baseline,	did patients have any history of vascular access failure?
	Yes, describe:
	No, newly constructed fistula
	Unclear
What was th	ne number of patients recruited?
What was th	ne follow up time?
How many j	patients were lost to follow up?
What was th	ne final number of participants analysed?
Cases	Controls:

## **4. Statistical Analyses**

What statistics	al analyses were employed?								
□ Compa	rative analyses								
	Qualitative								
	$\square$ $\chi^2$ (chi squared) test								
	□ Fisher's								
	Quantitative								
	☐ Mann-Whitney U (non-parametric)								
	☐ Student's t test (parametric)								
	Odds ratio								
□ Predicti	ive analyses								
	Hazards ratio								
	Kaplan-Meier survival curve								
	Log rank test								
□ Other:_									
-									
Was the statis	tical significance set at $p < 0.05$ ?								
	Yes								
	No;								
	State cut-off:								
	Give reasons:								
Were multiva	riate analyses performed?								
	No								
	Yes								
	State any confounding factors that have been adjusted for:								

3. Population Char	acteristics			
State available popul combined population				•
Item	Units	Cases	Controls	<b>Combined Population</b>
% Males				
Age				
Smoking				
Hypertension				

BML body	mass index	CRF	chronic renal	failure:	HD.	haemodial	vsis

Hypertension

Dyslipidaemia

Radiocephalic: brachiocephalic

Duration of CRF

Duration of HD

Previous vascular access failure

BMI

Kt/v

State available medication data for cases and controls (preferred) OR combined population.

Medications	Dose	Cases	Controls	Combined Population
Anticoagulants				
Lipid altering medications				
Anti-hypertensives				

Oral hypoglycaemics		
Anti-inflammatory agents		
Other:		

## 4. Biomarkers Assessed

List all biomarkers that were assessed in relation to AV fistula outcome, and state the statistical analysis applied (e.g. survival curve, multivariate HR, univariate HR, OR, raw conc.)

Biomarker	Statistical model(s) applied

## 5. Results

Record details for survival curves/ log rank test:

Biomarker	Units	Cut-off 1	Cut-off 2	Cut-off 3	Cut-off 4	Cut-off 5	P value (log rank)
							(log rank)

Record any hazards ratios, risk ratios or odds ratios stated for each biomarker. Record with the ratio is univariate or multivariate analysis

Biomarker	OR/HR/RR	95 % CI	P value	Univariate/ multivariate

More?	□ (record on additional data extraction forms)			

Record biomarker concentrations in case and control groups:

Biomarker	Units	Cases	Controls	P value
	<u> </u>			

Record any additional r levels and AV fistula d		pport the association	between circulating	biomarker
7. Discussion and Con	clusion			
		41: 4 1 0		
What conclusions were	drawn from	this study?		
List limitations of the s	tudy identifie	d by the author:		

List any other limitations not stated by the author:	