RENAL BIOPSY REQUEST FORM		
ABBREVIATIONS		
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ABBREVIATION	SIGNIFICANCE	COMMENT (N.B. normal ranges are indicative; refer to local lab
	1	reference levels)
		,
General abbreviations	•	
N	Normal	
Bx	Biopsy	
Tx	Transplant	
Тхр	Transplant	
Blood and urine results		
s	often stands for serum	
<u> </u>	Serum creatinine	C also used for complement, as in C3 or C4
Cr	Serum creatinine	
sC	Serum creatinine	
Creat	Serum creatinine	NORMAL RANGE: adult F up to ~100 μmol/L; adult M up to ~ 120
		μmol/L
GFR	Glomerular filtration rate	short cut for eGFR
eGFR	estimated glomerular filtration rate	NORMAL RANGE: > 60 mL/min/1.73 m2
	<u> </u>	
UP	urinary protein	Circlificant matrix of a FOurth and
uPCR PCR	urinary protein to creatinine ratio urinary protein to creatinine ratio	Significant proteinuria >50mg/mmol
uACR	urinary albumin to creatinine ratio	Significant proteinuria >30 mg/mmol
ACR	urinary albumin to creatinine ratio	Significant proteinand >30 mg/mmor
dip	dipstick results	for protein and blood e.g. prot ++ blood +
		, , , , , , , , , , , , , , , , , , ,
A	Serum albumin	
Alb	Serum albumin	NORMAL RANGE ~ 35-55 g/L
sAlb	Serum albumin	
C3	complement component 3	
C4	complement component 4	
CH50	total haemolytic complement	
Chol	cholesterol	levels depend on cholesterol tested (Total, HDL,LDL)
antiPLA2R	antiphopholipase type 2 receptor antibodies	1 (
PLA2R	phopholipase type 2 receptor	short-cut for anti-PLA2R
dsDNA	antibodies against double stranded DNA	
ANA APL	anti-nuclear antibodies anti-phospholipid antibodies	
	cryoglobulin	
cryo ANCA	anti-neutrophil cytoplasm antibody	
MPO	myeloperoxidase	subtype of ANCA
PR3	proteinase 3	subtype of ANCA
Hb	haemoglobin	
PLT	platelets	
WBC	white blood cells	
Eo	eosinophils	
ACE	angiotensin converting enzyme	elevated in sarcoidosis
RF	rheumatoid factor	present in rheumatoid arthritis and other autoimmune diseases
HbA1c	glycated haemoglobin	target value in diabetes <48 mmol/mol
Types of biopsy		
Native	Biopsy of native kidney	
Transplant	Biopsy of transplant kidney	
Preimplantion	biopsy taken just before implanting the donated	
	organ	
Implantation	biopsy taken at or just after implantation of the	
Time	donated organ	
Time zero	biopsy taken at or just after implantation of the	
Indication	donated organ biopsy taken for dysfunction of the graft	most often increase in creatinine or proteinuria
Surveillance	biopsy taken from a graft with stable function	in order to detect subclinical events
Jui velliance	propay taken from a graft with Stable function	in order to detect subclinical events

Clinical history FH	Tomily history	
PUO	Family history Pyrexia of unknown origin	
ARF	acute renal failure (same as AKI)	rapid increase in creatinine
AKI	acute kidney injury (same as ARF)	rapid increase in creatinine
CRF	chronic renal failure (same as CKD)	progressive increase in creatinine
CKD	chronic kidney disease (same as CRF)	progressive increase in creatinine
ESRF	end stage renal failure	
No · ·	nephrotic (syndrome)	haevy proteinuria with low serum albumin and oedema
microhaem µhaem	microhaematuria microhaematuria	blood in the urine without visible urine dyscoloration
macrohaem	macrohaematuria	visible blood in urine
mad onder.	mad-ondematana	Note aloog in diffe
Systemic conditions affecting the kidney		
MM	multiple myeloma	
ANCA	antineutrophil cytoplasmic antibody	
WG	Wegener's granulomatosis	also known as granulomatous polyangeitis
GPA CS	granulomatous polyangeitis	also known as Wegener's granulomatosis
EPA	Churg Strauss syndrome eosinophilic polyangeitis	also known as eosinophilic polyangeitis also known as Churg Strauss syndrome
MPA	microscopic polyangeitis	also known as charg strauss syndrome
DM	diabetes mellitus	
T1DM and T2DM	type 1 and type 2 diabetes mellitus	
DM 1 and DM 2	type 1 and type 2 diabetes mellitus	
type 1 and type 2 DM	type 1 and type 2 diabetes mellitus	
HTN	hypertension	
HT	hypertension	
SLE	systemic lupus erythematosis	LNI alace LVI
LN Tb	lupus nephritis tuberculosis	LN class I-VI
RA	rheumatoid arthiritis	
AAA	abdominal aortic aneurysm	
IHD	ischaemic heart disease	
TIA	transient ischaemic attack (brain)	
υτι	urinary tract infection	
LRTI	lower respiratory tract infection	
HBV	hepatitis B virus hepatitis C virus	
	inepatitis C vii us	
Native Biopsy Terminology - biopsy findings		
ATI	acute tubular injury	
IgA	IgA nephropathy	
FSGS	focal and segmental glomerulosclerosis	
GN	glomerulonephritis	
GN MPGN	membranoproliferative glomerulonephritis	same as mesangiocapillary glomerulonephritis; type I-III
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GN MPGN	membranoproliferative glomerulonephritis mesangiocapillary glomerulonephritis tubulointerstitial nephritis	
GN MPGN MCGN TIN	membranoproliferative glomerulonephritis mesangiocapillary glomerulonephritis	
GN MPGN MCGN TIN C3 GN	membranoproliferative glomerulonephritis mesangiocapillary glomerulonephritis tubulointerstitial nephritis C3 glomerulonephritis lupus nephritis membranous glomerulopathy	
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GN MPGN MCGN TIN C3 GN LN Mb Min ch TBM	membranoproliferative glomerulonephritis mesangiocapillary glomerulonephritis tubulointerstitial nephritis C3 glomerulonephritis lupus nephritis membranous glomerulopathy minimal change disease thin basement membrane disease	
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GN MPGN MCGN TIN C3 GN LN Mb Min ch TBM Min ch TEBM MIDD LCDD  Renal replacement therapy (treatment for ESRF re HD PD CAPD  Transplant related terminology - clinical Tx Cad Tx DD DCD  DBD	membranoproliferative glomerulonephritis mesangiocapillary glomerulonephritis tubulointerstitial nephritis C3 glomerulonephritis lupus nephritis membranous glomerulopathy minimal change disease thin basement membrane disease monoclonal immunoglobulin deposition disease light chain deposition disease  ceived before transplantation) haemodialysis peritoneal dialysis continuous ambulatory peritoneal dialysis  transplant(ation) cadaveric (deceased donor) transplant Deceased donor Donor-after cardiac death / non heart beating (subtype of DD) Donor-after brain death / heart-beating (subtype of DD) Extended criteria donor	same as membranoproliferative glomerulonephritis; type I-III  same as DD  same as Cad Tx  same as NHB  refers donors > 60 or >50 with risk factors for renal disease
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LURT/ LURTx	Live unrelated transplant (subtype of LD)	
SPK	Simultaneous pancreas and kidney transplant	
RTA	road trafic accident	
ICH	intracranial haemorrhage	
DSA	donor specific antibody	antibody in the recipient against the donor (usually anti-HLA or anti-
		blood type)
HLA	human leukocyte antigen	most common donor antigens to elicit the development of donor
		specific antibodies against the graft
MM	mismatch	mismatch in HLA loci A,B and DR; min of 0, max of 2 mismatches per
		locus; total MM 0 to 6 (where 0 is best and 6 is worst); e.g. 1:1:0
		signifies 1 mismatch in A, 1 mismatch in B and 0 mismatches in DR
ABOi	blood group ABO incompatible transplant	donor and recipient are of different blood groups
+XM	positive cross match	recipient has antibodies to donor HLA antigens detected using
		complement dependent cytotoxicity cross match
+FC	positive flow cytometry	recipient has antibodies to donor HLA antigens detected using flow
		cytometry
DSA	donor specific antibody	recipient has antibodies to donor HLA antigens
Luminex	bead technology for detecting HLA antibodies in	
	the serum	
DGF	delayed graft function	graft not functioning in days/weeks following transplantation
NODAT	new onset diabetes after transplantation	
CMV	cytomegalovirus	
	eycomega.ovus	
Transplant related terminology - biopsy findings		
CMR	cell-mediated rejection (same as TCMR)	
TCMR	cell-mediated rejection (same as TCNR)	
	, , , , ,	
AMR	antibody-mediated rejection (same as ABMR)	
ABMR	antibody-mediated rejection (same as AMR)	
IFTA	interstitial fibrosis/tubular atrophy	
ВК	BK virus infection	
t	tubulitis	Banff code for tubulitis
Banff	Banff scoring system for transplant pathology	includes t (tubulitis), I (interstitial inflammation), v (vasculitis), g
	findings	(glomerulitis), ptc (peritubular capillaritis), ct (tubular atrophy), ci
		(interstitial fibrosis), cg (transplant glomerulopathy), cv (arterial
		intimal thickening), ah (arteriolar hyalinosis)
Drugs		
CNI	calcineurin inhibitor	
	calcineurin inhibitor tacrolimus	
CNI		
CNI FK(506)	tacrolimus	
CNI FK(506) Tac	tacrolimus tacrolimus	
CNI FK(506) Tac MMF	tacrolimus tacrolimus mycophenolate mofetil	
CNI FK(506) Tac MMF Aza	tacrolimus tacrolimus mycophenolate mofetil azathioprine	
CNI FK(506) Tac MMF Aza CyA	tacrolimus tacrolimus mycophenolate mofetil azathioprine cyclosporine cyclosporine	
CNI FK(506) Tac MMF Aza CyA CS cyclo	tacrolimus tacrolimus mycophenolate mofetil azathioprine cyclosporine cyclosporine cyclosporine	
CNI FK(506) Tac MMF Aza CyA CS cyclo Pex	tacrolimus tacrolimus mycophenolate mofetil azathioprine cyclosporine cyclosporine cyclosporine plasma exchange	
CNI FK(506) Tac MMF Aza CyA CS cyclo Pex IVIG	tacrolimus tacrolimus mycophenolate mofetil azathioprine cyclosporine cyclosporine cyclosporine plasma exchange intravenous immunoglobulin	
CNI FK(506) Tac MMF Aza CyA CS cyclo Pex IVIG	tacrolimus tacrolimus mycophenolate mofetil azathioprine cyclosporine cyclosporine cyclosporine plasma exchange intravenous immunoglobulin prednisolone	
CNI FK(506) Tac MMF Aza CyA CS Cyclo Pex IVIG P	tacrolimus tacrolimus mycophenolate mofetil azathioprine cyclosporine cyclosporine cyclosporine plasma exchange intravenous immunoglobulin prednisolone prednisolone	
CNI FK(506) Tac MMF Aza CyA CS Cyclo Pex IVIG P	tacrolimus tacrolimus mycophenolate mofetil azathioprine cyclosporine cyclosporine cyclosporine plasma exchange intravenous immunoglobulin prednisolone prednisolone methylprednisolone	
CNI FK(506) Tac MMF Aza CyA CS Cyclo Pex IVIG P Pred MP mono	tacrolimus tacrolimus mycophenolate mofetil azathioprine cyclosporine cyclosporine cyclosporine cyclosporine intravenous immunoglobulin prednisolone prednisolone methylprednisolone monotherapy	
CNI FK(506) Tac MMF Aza CyA CS Cyclo Pex IVIG P Pred MP mono antiCD20	tacrolimus tacrolimus mycophenolate mofetil azathioprine cyclosporine cyclosporine cyclosporine cyclosporine intravenous immunoglobulin prednisolone prednisolone methylprednisolone monotherapy monoclonal anti-CD20 antibody	
CNI FK(506) Tac MMF Aza CyA CS cyclo Pex IVIG P Pred MP mono antiCD20 Ritux	tacrolimus tacrolimus mycophenolate mofetil azathioprine cyclosporine cyclosporine cyclosporine cyclosporine intravenous immunoglobulin prednisolone prednisolone methylprednisolone monotherapy monoclonal anti-CD20 antibody rituximab (antiCD20)	
CNI FK(506) Tac MMF Aza CyA CS cyclo Pex IVIG P Pred MP mono antiCD20 Ritux ARVT	tacrolimus tacrolimus mycophenolate mofetil azathioprine cyclosporine cyclosporine cyclosporine cyclosporine intravenous immunoglobulin prednisolone prednisolone methylprednisolone monotherapy monoclonal anti-CD20 antibody rituximab (antiCD20) anti-retroviral therapy	
CNI FK(506) Tac MMF Aza CyA CS cyclo Pex IVIG P Pred MP mono antiCD20 Ritux ARVT NSAIDS	tacrolimus tacrolimus mycophenolate mofetil azathioprine cyclosporine cyclosporine cyclosporine cyclosporine lasma exchange intravenous immunoglobulin prednisolone prednisolone methylprednisolone monotherapy monoclonal anti-CD20 antibody rituximab (antiCD20) anti-retroviral therapy non steroidal anti-inflammatory drugs	
CNI FK(506) Tac MMF Aza CyA CS cyclo Pex IVIG P Pred MP mono antiCD20 Ritux ARVT NSAIDS antiCD52	tacrolimus tacrolimus mycophenolate mofetil azathioprine cyclosporine cyclosporine cyclosporine plasma exchange intravenous immunoglobulin prednisolone prednisolone methylprednisolone monotherapy monoclonal anti-CD20 antibody rituximab (antiCD20) anti-retroviral therapy non steroidal anti-inflammatory drugs anti-CD52 antibodies	e.g. campath, alemtuzumab
CNI FK(506) Tac MMF Aza CyA CS Cyclo Pex IVIG P Pred MP mono antiCD20 Ritux ARVT NSAIDS antiCD52 anti-II2	tacrolimus tacrolimus mycophenolate mofetil azathioprine cyclosporine cyclosporine cyclosporine plasma exchange intravenous immunoglobulin prednisolone prednisolone methylprednisolone monotherapy monoclonal anti-CD20 antibody rituximab (antiCD20) anti-retroviral therapy non steroidal anti-inflammatory drugs anti-CD52 antibodies anti-interleukin 2 receptor antibodies	e.g. daclizumab, basiliximab
CNI FK(506) Tac MMF Aza CyA CS Cyclo Pex IVIG P Pred MP mono antiCD20 Ritux ARVT NSAIDS antiCD52 anti-II2 ACEi	tacrolimus tacrolimus mycophenolate mofetil azathioprine cyclosporine cyclosporine cyclosporine cyclosporine intravenous immunoglobulin prednisolone prednisolone methylprednisolone monotherapy monoclonal anti-CD20 antibody rituximab (antiCD20) anti-retroviral therapy non steroidal anti-inflammatory drugs anti-CD52 antibodies anti-interleukin 2 receptor antibodies angiotensin convernting enzyme inhibitor	e.g. daclizumab, basiliximab e.g. captopril, enalapril, lisinopril, ramipril,
CNI FK(506) Tac MMF Aza CyA CS CyClo Pex IVIG P Pred MP mono antiCD20 Ritux ARVT NSAIDS antiCD52 anti-II2 ACEi ARB	tacrolimus tacrolimus mycophenolate mofetil azathioprine cyclosporine cyclosporine cyclosporine cyclosporine cyclosporine intravenous immunoglobulin prednisolone prednisolone methylprednisolone monotherapy monoclonal anti-CD20 antibody rituximab (antiCD20) anti-retroviral therapy non steroidal anti-inflammatory drugs anti-CD52 antibodies anti-interleukin 2 receptor antibodies angiotensin convernting enzyme inhibitor angiotensin receptor blockade	e.g. daclizumab, basiliximab e.g. captopril, enalapril, lisinopril, ramipril, e.g. candesartan, irbesartan, losartan,
CNI FK(506) Tac MMF Aza CyA CS Cyclo Pex IVIG P Pred MP mono antiCD20 Ritux ARVT NSAIDS antiCD52 anti-II2 ACEi	tacrolimus tacrolimus mycophenolate mofetil azathioprine cyclosporine cyclosporine cyclosporine cyclosporine intravenous immunoglobulin prednisolone prednisolone methylprednisolone monotherapy monoclonal anti-CD20 antibody rituximab (antiCD20) anti-retroviral therapy non steroidal anti-inflammatory drugs anti-CD52 antibodies anti-interleukin 2 receptor antibodies angiotensin convernting enzyme inhibitor	e.g. daclizumab, basiliximab e.g. captopril, enalapril, lisinopril, ramipril,
CNI FK(506) Tac MMF Aza CyA CS Cyclo Pex IVIG P Pred MP mono antiCD20 Ritux ARVT NSAIDS antiCD52 anti-II2 ACEi ARB PPI	tacrolimus tacrolimus mycophenolate mofetil azathioprine cyclosporine cyclosporine cyclosporine cyclosporine cyclosporine intravenous immunoglobulin prednisolone prednisolone methylprednisolone monotherapy monoclonal anti-CD20 antibody rituximab (antiCD20) anti-retroviral therapy non steroidal anti-inflammatory drugs anti-CD52 antibodies anti-interleukin 2 receptor antibodies angiotensin convernting enzyme inhibitor angiotensin receptor blockade	e.g. daclizumab, basiliximab e.g. captopril, enalapril, lisinopril, ramipril, e.g. candesartan, irbesartan, losartan,
CNI FK(506) Tac MMF Aza CyA CS Cyclo Pex IVIG P Pred MP mono antiCD20 Ritux ARVT NSAIDS antiCD52 anti-II2 ACEI ARB PPI Radiological investigations and findings	tacrolimus tacrolimus mycophenolate mofetil azathioprine cyclosporine cyclosporine cyclosporine cyclosporine cyclosporine intravenous immunoglobulin prednisolone prednisolone methylprednisolone monotherapy monoclonal anti-CD20 antibody rituximab (antiCD20) anti-retroviral therapy non steroidal anti-inflammatory drugs anti-CD52 antibodies anti-interleukin 2 receptor antibodies angiotensin convernting enzyme inhibitor angiotensin receptor blockade	e.g. daclizumab, basiliximab e.g. captopril, enalapril, lisinopril, ramipril, e.g. candesartan, irbesartan, losartan,
CNI FK(506) Tac MMF Aza CyA CS Cyclo Pex IIVIG P Pred MP mono antiCD20 Ritux ARVT NSAIDS anti-CD52 anti-II2 ACEi ARB PPI	tacrolimus tacrolimus mycophenolate mofetil azathioprine cyclosporine cyclosporine cyclosporine cyclosporine cyclosporine intravenous immunoglobulin prednisolone prednisolone methylprednisolone monotherapy monoclonal anti-CD20 antibody rituximab (antiCD20) anti-retroviral therapy non steroidal anti-inflammatory drugs anti-CD52 antibodies anti-interleukin 2 receptor antibodies angiotensin convernting enzyme inhibitor angiotensin receptor blockade	e.g. daclizumab, basiliximab e.g. captopril, enalapril, lisinopril, ramipril, e.g. candesartan, irbesartan, losartan,
CNI FK(506) Tac MMF Aza CyA CS cyclo Pex IVIG P Pred MP mono antiCD20 Ritux ARVT NSAIDS antiCD52 anti-II2 ACEi ARB PPI Radiological investigations and findings	tacrolimus tacrolimus mycophenolate mofetil azathioprine cyclosporine cyclosporine cyclosporine cyclosporine plasma exchange intravenous immunoglobulin prednisolone prednisolone methylprednisolone monotherapy monoclonal anti-CD20 antibody rituximab (antiCD20) anti-retroviral therapy non steroidal anti-inflammatory drugs anti-CD52 antibodies anti-interleukin 2 receptor antibodies angiotensin convernting enzyme inhibitor angiotensin receptor blockade proton pump inhibitors	e.g. daclizumab, basiliximab e.g. captopril, enalapril, lisinopril, ramipril, e.g. candesartan, irbesartan, losartan, e.g. omeprazole, lansoprazole,
CNI FK(506) Tac MMF Aza CyA CS cyclo Pex IVIG P Pred MP mono antiCD20 Ritux ARVT NSAIDS antiCD52 anti-II2 ACEi ARB PPI  Radiological investigations and findings TRAS	tacrolimus tacrolimus mycophenolate mofetil azathioprine cyclosporine cyclosporine cyclosporine cyclosporine plasma exchange intravenous immunoglobulin prednisolone prednisolone methylprednisolone monotherapy monoclonal anti-CD20 antibody rituximab (antiCD20) anti-retroviral therapy non steroidal anti-inflammatory drugs anti-CD52 antibodies anti-interleukin 2 receptor antibodies angiotensin convernting enzyme inhibitor angiotensin receptor blockade proton pump inhibitors	e.g. daclizumab, basiliximab e.g. captopril, enalapril, lisinopril, ramipril, e.g. candesartan, irbesartan, losartan, e.g. omeprazole, lansoprazole,
CNI FK(506) Tac MMF Aza CyA CS cyclo Pex IVIG P Pred MP mono antiCD20 Ritux ARVT NSAIDS antiCD52 anti-Il2 ACEi ARB PPI  Radiological investigations and findings TRAS RAS	tacrolimus tacrolimus mycophenolate mofetil azathioprine cyclosporine cyclosporine cyclosporine cyclosporine lasma exchange intravenous immunoglobulin prednisolone prednisolone methylprednisolone monotherapy monoclonal anti-CD20 antibody rituximab (antiCD20) anti-retroviral therapy non steroidal anti-inflammatory drugs anti-CD52 antibodies anti-interleukin 2 receptor antibodies angiotensin convernting enzyme inhibitor angiotensin receptor blockade proton pump inhibitors  transplant renal artery stenosis same as TRAS	e.g. daclizumab, basiliximab e.g. captopril, enalapril, lisinopril, ramipril, e.g. candesartan, irbesartan, losartan, e.g. omeprazole, lansoprazole, restricts blood flow to transplant resulting in dysfunction
CNI FK(506) Tac MMF Aza CyA CS CyClo Pex IVIG P Pred MP mono antiCD20 Ritux ARVT NSAIDS antiCD52 anti-Il2 ACEi ARB PPI  Radiological investigations and findings TRAS RAS IADSA	tacrolimus tacrolimus mycophenolate mofetil azathioprine cyclosporine cyclosporine cyclosporine cyclosporine plasma exchange intravenous immunoglobulin prednisolone prednisolone methylprednisolone monotherapy monoclonal anti-CD20 antibody rituximab (antiCD20) anti-retroviral therapy non steroidal anti-inflammatory drugs anti-CD52 antibodies anti-interleukin 2 receptor antibodies angiotensin convernting enzyme inhibitor angiotensin receptor blockade proton pump inhibitors  transplant renal artery stenosis same as TRAS intra-arterial digital subtraction angiography	e.g. daclizumab, basiliximab e.g. captopril, enalapril, lisinopril, ramipril, e.g. candesartan, irbesartan, losartan, e.g. omeprazole, lansoprazole, restricts blood flow to transplant resulting in dysfunction used to investigate for TRAS
CNI FK(506) Tac MMF Aza CyA CS CyClo Pex IVIG P Pred MP mono antiCD20 Ritux ARVT NSAIDS antiCD52 anti-Il2 ACEi ARB PPI  Radiological investigations and findings TRAS RAS IADSA DES	tacrolimus tacrolimus mycophenolate mofetil azathioprine cyclosporine cyclosporine cyclosporine plasma exchange intravenous immunoglobulin prednisolone methylprednisolone monotherapy monoclonal anti-CD20 antibody rituximab (antiCD20) anti-retroviral therapy non steroidal anti-inflammatory drugs anti-CD52 antibodies anti-interleukin 2 receptor antibodies angiotensin convernting enzyme inhibitor angiotensin receptor blockade proton pump inhibitors  transplant renal artery stenosis same as TRAS intra-arterial digital subtraction angiography drug eluting stent	e.g. daclizumab, basiliximab e.g. captopril, enalapril, lisinopril, ramipril, e.g. candesartan, irbesartan, losartan, e.g. omeprazole, lansoprazole, restricts blood flow to transplant resulting in dysfunction used to investigate for TRAS
CNI FK(506) Tac MMF Aza CyA CS CyClo Pex IVIG P Pred MIP MONO antiCD20 Ritux ARVT NSAIDS antiCD52 anti-Il2 ACEi ARB PPI  Radiological investigations and findings TRAS RAS IADSA DES USS	tacrolimus tacrolimus mycophenolate mofetil azathioprine cyclosporine cyclosporine cyclosporine plasma exchange intravenous immunoglobulin prednisolone methylprednisolone monotherapy monoclonal anti-CD20 antibody rituximab (antiCD20) anti-retroviral therapy non steroidal anti-inflammatory drugs anti-CD52 antibodies anti-interleukin 2 receptor antibodies angiotensin convernting enzyme inhibitor angiotensin receptor blockade proton pump inhibitors  transplant renal artery stenosis same as TRAS intra-arterial digital subtraction angiography drug eluting stent	e.g. daclizumab, basiliximab e.g. captopril, enalapril, lisinopril, ramipril, e.g. candesartan, irbesartan, losartan, e.g. omeprazole, lansoprazole, restricts blood flow to transplant resulting in dysfunction used to investigate for TRAS
CNI FK(506) Tac MMF Aza CyA CS CyClo Pex IVIG P Pred MIP Mono antiCD20 Ritux ARVT NSAIDS antiCD52 anti-II2 ACEi ARB PPI  Radiological investigations and findings TRAS RAS IADSA DES USS  Miscellaneous	tacrolimus tacrolimus mycophenolate mofetil azathioprine cyclosporine cyclosporine cyclosporine cyclosporine cyclosporine cyclosporine cyclosporine cyclosporine cyclosporine intravenous immunoglobulin prednisolone prednisolone methylprednisolone monotherapy monoclonal anti-CD20 antibody rituximab (antiCD20) anti-retroviral therapy non steroidal anti-inflammatory drugs anti-CD52 antibodies anti-interleukin 2 receptor antibodies angiotensin convernting enzyme inhibitor angiotensin receptor blockade proton pump inhibitors  transplant renal artery stenosis same as TRAS intra-arterial digital subtraction angiography drug eluting stent ultrasound scan	e.g. daclizumab, basiliximab e.g. captopril, enalapril, lisinopril, ramipril, e.g. candesartan, irbesartan, losartan, e.g. omeprazole, lansoprazole, restricts blood flow to transplant resulting in dysfunction used to investigate for TRAS
CNI FK(506) Tac MMF Aza CyA CS CyClo Pex IVIG P Pred MP mono antiCD20 Ritux ARVT NSAIDS antiCD52 anti-I12 ACEi ARB PPI  Radiological investigations and findings TRAS RAS IADSA DES USS  Miscellaneous PUO	tacrolimus tacrolimus mycophenolate mofetil azathioprine cyclosporine cyclosporine cyclosporine cyclosporine cyclosporine cyclosporine cyclosporine cyclosporine plasma exchange intravenous immunoglobulin prednisolone prednisolone methylprednisolone monotherapy monoclonal anti-CD20 antibody rituximab (antiCD20) anti-retroviral therapy non steroidal anti-inflammatory drugs anti-CD52 antibodies anti-interleukin 2 receptor antibodies angiotensin convernting enzyme inhibitor angiotensin receptor blockade proton pump inhibitors  transplant renal artery stenosis same as TRAS intra-arterial digital subtraction angiography drug eluting stent ultrasound scan	e.g. daclizumab, basiliximab e.g. captopril, enalapril, lisinopril, ramipril, e.g. candesartan, irbesartan, losartan, e.g. omeprazole, lansoprazole, restricts blood flow to transplant resulting in dysfunction used to investigate for TRAS
CNI FK(506) Tac MMF Aza CyA CS CyClo Pex IVIG P Pred MP mono antiCD20 Ritux ARVT NSAIDS antiCD52 anti-ID52 ARB PPI  Radiological investigations and findings TRAS RAS RAS IADSA DES USS  Miscellaneous PUO RCC	tacrolimus tacrolimus mycophenolate mofetil azathioprine cyclosporine cyclosporine cyclosporine cyclosporine cyclosporine cyclosporine cyclosporine cyclosporine cyclosporine intravenous immunoglobulin prednisolone prednisolone methylprednisolone monotherapy monoclonal anti-CD20 antibody rituximab (antiCD20) anti-retroviral therapy non steroidal anti-inflammatory drugs anti-CD52 antibodies angiotensin convernting enzyme inhibitor angiotensin receptor blockade proton pump inhibitors  transplant renal artery stenosis same as TRAS intra-arterial digital subtraction angiography drug eluting stent ultrasound scan  pyrexia of unknown origin renal cell carcinoma	e.g. daclizumab, basiliximab e.g. captopril, enalapril, lisinopril, ramipril, e.g. candesartan, irbesartan, losartan, e.g. omeprazole, lansoprazole, restricts blood flow to transplant resulting in dysfunction used to investigate for TRAS
CNI FK(506) Tac MMF Aza CyA CS Cyclo Pex IVIG P Pred MP mono antiCD20 Ritux ARVT NSAIDS anti-CD52 anti-CD52 anti-IJ2 ACEi ARB PPI  Radiological investigations and findings TRAS RAS IADSA DES USS  Miscellaneous PUO	tacrolimus tacrolimus mycophenolate mofetil azathioprine cyclosporine cyclosporine cyclosporine cyclosporine cyclosporine cyclosporine cyclosporine cyclosporine plasma exchange intravenous immunoglobulin prednisolone prednisolone methylprednisolone monotherapy monoclonal anti-CD20 antibody rituximab (antiCD20) anti-retroviral therapy non steroidal anti-inflammatory drugs anti-CD52 antibodies anti-interleukin 2 receptor antibodies angiotensin convernting enzyme inhibitor angiotensin receptor blockade proton pump inhibitors  transplant renal artery stenosis same as TRAS intra-arterial digital subtraction angiography drug eluting stent ultrasound scan	e.g. daclizumab, basiliximab e.g. captopril, enalapril, lisinopril, ramipril, e.g. candesartan, irbesartan, losartan, e.g. omeprazole, lansoprazole, restricts blood flow to transplant resulting in dysfunction used to investigate for TRAS

AVF	arteriovenous fistula	complication of renal biopsy procedure; risk of subsequent
		haemorrhage
LN	lymph node	
PTLD	post-transplant lymphoproliferative disorder	
+ve	positive	
-ve	negative	