BIBLIOGRAPHICAL SEARCH ALGORITHMS

In order to prepare the clinical questions, a global context search to identify studies that could be applied to these questions was initially carried out. In the same way, results of the specific searches presented in this document, which could be applied to the summary of the evidence of other questions, was given special attention.		
MEDLINE PubMed	16.10.2013	#1 "Arteriovenous Shunt, Surgical"[MAJR] 6055 #2 fistula*[tiab] 75874 #3 AVF*[tiab] 2963 #4 vascular access[tiab] 5980 #5 dialysis access[tiab] 778 #6 #1 OR #2 OR #3 OR #4 OR #5 83686 #7 hemodialysis[tiab] 45398 #8 dialysis[tiab] 81500 #9 "Renal Dialysis"[MAJR] 67762 #10 #7 OR #8 OR #9 120647 #11 #6 AND #10 7621 #12 systematic[sb] 211844 #13 review[pt] 1885598 #14 #12 OR #13 1984367 #15 #11 AND #14 941 #16 #11 NOT #15 6680 #17 ((randomized controlled trial[pt] OR controlled clinical trial[pt] OR randomized[tiab] OR placebo[tiab] OR drug therapy[sh] OR randomly[tiab] OR trial[tiab] OR groups[tiab]) NOT (animals [mh] NOT humans [mh])) 2842350 #18 #16 AND #17 1116 #19 #11 NOT (#15 OR #18) 5564 #20 "Cohort Studies"[Mesh] 1346724 #21 cohort*[tiab] 256683 #22 #20 OR #21 1443934 #23 #19 AND #22 1461

ARTERIOVENOUS FISTULA CREATION

What criteria are required to plan the arteriovenous fistula (depending on the different types of fistula)?		
MEDLINE PubMed	16.10.2013	#11 "Arteriovenous Shunt, Surgical"[MAJR] 5633 #12 fistula*[tiab] 72602 #13 AVF*[tiab] 2919 #14 vascular access[tiab] 5884 #15 dialysis access[tiab] 764 #16 #11 OR #12 OR #13 OR #14 OR #15 80179 #17 hemodialysis[tiab] 44833 #18 dialysis[tiab] 79868 #19 "Renal Dialysis"[MAJR] 63929 #20 #17 OR #18 OR #19 118350 #21 #16 AND #20 7451 #22 predict*[tiab] 892961 #23 risk factor*[tiab] 330420 #24 plan*[tiab] 215940 #25 function*[tiab] 2040720 #26 performanc*[tiab] 525154 #33 outcome*[ti] 165554 #34 "Risk Factors"[mh] 525104 #35 #22 OR #23 OR #24 OR #25 OR #26 OR #33 OR #34 3972979

		#36 #21 AND #35 2261 #37 systematic[sb] 213136 #38 review[pt] 1794519 #39 #36 AND #37 43 #40 #36 AND #38 307 #44 #40 NOT #39 287
MEDLINE PubMed	13.12.2013	preoperative planning[tiab] AND vascular access[tiab] 6 predict*[ti] AND (vascular access[ti] OR fistula[ti]) 129 diameter[ti] AND (vascular access[ti] OR fistula[ti]) 10

What are the results of vascular access fall-back techniques when conventional accesses are depleted? Should they be recommended prior to catheter dialysis depending on these results?		
MEDLINE PubMed	09.01.2014	#32 "Renal Dialysis"[MeSH] OR hemodialysis[tiab] OR haemodialysis[tiab] OR dialysis[tiab] 134708 #35 "unconventional dialysis access" 7 #37 "nonconventional dialysis access" 3 #39 "unconventional vascular access" 15 #40 "nonconventional vascular access" 3 #42 unconventional[ti] AND access[ti] 9 #43 non conventional[ti] AND access[ti] 0 #44 nonconventional[ti] AND access[ti] 0 #49 percutaneous translumbar[ti] 21 #50 femoral[ti] AND tunneled[ti] 17 #38 "non conventional dialysis access" 76 #41 "non conventional vascular access" 164 #45 salvage[ti] 7787 #47 inferior vena cava[ti] 5586 #48 percutaneous transhepatic[ti] 1384 #51 recanalization[ti] 1814 #52 recanalisation[ti] 142 #53 exhausted[tiab] 4074 #54 #35 OR #37 OR #38 OR #39 OR #40 OR #41 OR #42 OR #45 OR #47 OR #48 OR #49 OR #50 OR #51 OR #52 OR #53 20971 #55 #32 AND #54 518 #56 systematic[sb] 219578 #57 review[pt] 1819388 #58 (randomized controlled trial[pt] OR controlled clinical trial[pt] OR randomized[tiab] OR placebo[tiab] OR drug therapy[sh] OR randomly[tiab] OR trial[tiab] OR groups[tiab]) NOT (animals [mh] NOT humans [mh]) 2822783 #59 #55 AND #56 14 #62 (#55 AND #57) NOT #59 38 #68 (#55 AND #58) NOT #67 58

Can an order of creation of arteriovenous fistula be advised?		
MEDLINE PubMed	09.01.2014	arm[ti] AND fistula*[ti] AND systematic[sb] 1
MEDLINE PubMed	09.01.2014	#1 fistula*[ti] OR graft*[ti] OR vascular access[ti] OR hemodialysis access[ti] OR haemodialysis access[ti] 125487 #2 order[ti] OR first[ti] OR initial[ti] OR placement[tiab] 251486 #3 #1 AND #2 4713 #4 systematic[sb] 219578 #5 review[pt] 1819388 #6 (randomized controlled trial[pt] OR controlled clinical trial[pt] OR

		randomized[tiab] OR placebo[tiab] OR drug therapy[sh] OR randomly[tiab] OR trial[tiab] OR groups[tiab]) NOT (animals [mh] NOT humans [mh]) 2822783 #7 #3 AND #4 67 #9 (#3 AND #5) NOT #7 245 #13 #7 OR #9 312 #14 (#3 AND #6) NOT #13 595 #16 "Renal Dialysis"[MeSH] OR hemodialysis[tiab] OR haemodialysis[tiab] OR dialysis[tiab] 134708 #17 #14 AND #16 112
The Cochrane Library	09.01.2014	#1 (fistula* or graft* or "vascular access" or "hemodialysis access" or "haemodialysis access"):ti,ab 11335 #2 (order or first or initial):ti or placement:ti,ab 15036 #3 #1 and #2 520 #4 (hemodialysis or haemodialysis or dialysis) .ti,ab 201 #5 MeSH descriptor: [Renal Dialysis] explode all trees 4099 #6 #4 or #5 4282 #7 #3 and #6 34

MONITORING AND SURVEILLANCE OF THE ARTERIOVENOUS FISTULA

Which non-invasive monitoring or surveillance method of the arteriovenous fistula presents predictive power of stenosis or thrombosis or increase in native arteriovenous fistula patency in the prevalent patient? What is the periodicity? **Which non-invasive monitoring or surveillance method of the arteriovenous fistula presents predictive power of stenosis or thrombosis or increase in prosthetic arteriovenous fistula patency in the prevalent patient? what is the periodicity?**		
MEDLINE PubMed	16.10.2013	#21 #20 NOT #19 121 12:16:30 #20 #16 AND #18 132 12:16:30 #19 #16 AND #17 18 12:15:51 #18 review[pt] 1794519 12:15:33 #17 systematic[sb] 213136 12:15:26 #16 #11 AND #15 709 12:15:05 #15 #12 OR #13 OR #14 884148 12:14:44 #14 screening[tiab] 315734 12:14:44 #13 surveill*[tiab] 98805 12:14:44 #12 monitor*[tiab] 502690 12:14:44 #11 #6 AND #10 7829 12:13:45 #10 #7 OR #8 OR #9 131516 12:13:45 #6 #1 OR #2 OR #3 OR #4 OR #5 80219 12:13:45 #9 "Renal Dialysis"[MeSH] 89032 12:13:35 #8 dialysis[tiab] 79868 12:13:35 #7 hemodialysis[tiab] 44833 12:13:35 #5 dialysis access*[tiab] 779 12:12:59 #4 vascular access*[tiab] 5978 12:12:59 #3 AVF*[tiab] 2919 12:12:59 #2 fistula*[tiab] 72602 12:12:59 #1 "Arteriovenous Shunt, Surgical"[MAJR] 5633
The Cochrane Library	17.10.2013	#1 MeSH descriptor: [Arteriovenous Shunt, Surgical] explode all trees 218 #2 fistula*:ti,ab 985 #3 AVF*:ti,ab 86 #4 vascular access*:ti,ab 669 #5 dialysis access*:ti,ab 360 #6 hemodialysis:ti,ab 3473 #7 dialysis:ti,ab 4546 #8 MeSH descriptor: [Renal Dialysis] explode all trees 3989 #9 #1 or #2 or #3 or #4 or #5 1732 #10 #7 or #8 or #9 7539 #11 #6 and #10 2497 #12 monitor*:ti,ab 27350 #13 surveill*:ti,ab 2037 #14 screening:ti,ab 15023 #15 #12 or #13 or #14 43109 #16 #11 and #15 224

Can regulated Doppler US performed by an experienced examiner replace angiography as the gold standard for diagnostically confirming significant stenosis in arteriovenous fistula?		
MEDLINE PubMed	17.10.2013	#4 "Arteriovenous Shunt, Surgical"[MAJR] 5639 #5 fistula*[tiab] 72664 #6 graft[tiab] 157583 #7 AVF*[tiab] 2921

		#8	vascular access*[tiab]	5987		
		#9	dialysis access*[tiab]	779		
		#10	"Graft Occlusion, Vascular/ultrasonography"[MeSH]	586		
		#11	"Graft Occlusion, Vascular/diagnosis"[MeSH]	3508		
		#12	#4 OR #5 OR #6 OR #7 OR #8 OR #9 OR #10 OR #11	234340		
		#13	hemodialysis[tiab]	44886		
		#14	dialysis[tiab]	79944		
		#15	"Renal Dialysis"[MeSH]	89132		
		#16	#13 OR #14 OR #15	131652		
		#17	#12 AND #16	11695		
		#18	"Angiography"[MeSH]	192177		
		#19	angiography[tiab]	102982		
		#20	fluorosc*[tiab]	17502		
		#21	arteriography[tiab]	15583		
		#22	#18 OR #19 OR #20 OR #21	258114		
		#23	"Ultrasonography, Doppler"[MeSH]	53737		
		#24	ultrasonography[tiab]	62155		
		#25	ultrasound[tiab]	148242		
		#26	doppler[tiab]	79694		
		#27	#23 OR #24 OR #25 OR #26	272078		
		#28	#17 AND #22 AND #27	176		
		#29	stenos*[tiab]	118273		
		#30	#28 and #29	102		
The Cochrane Library	21.10.2013	#1	fistula*:ti,ab	985		
		#2	graft:ti,ab	9963		
		#3	AVF*:ti,ab	86		
		#4	vascular access*:ti,ab	669		
		#5	dialysis access*:ti,ab	360		
		#6	#1 or #2 or #3 or #4 or #5	11433		
		#7	hemodialysis:ti,ab	3473		
		#8	dialysis:ti,ab	4546		
		#9	#7 or #8	6581		
		#10	#6 and #9	596		
		#11	angiography:ti,ab	4372		
		#12	fluorosc*:ti,ab	728		
		#13	arteriography:ti,ab	440		
		#14	#11 or #12 or #13	5393		
		#15	ultrasonography:ti,ab	2397		
		#16	ultrasound*:ti,ab	6867		
		#17	doppler:ti,ab	4827		
		#18	#15 or #16 or #17	12491		
		#19	#10 and #14 and #18	7		

What are the demographic, clinical and haemodynamic factors and variables with predictive power of thrombosis in an arteriovenous fistula that presents stenosis?						
MEDLINE PubMed	17.10.2013	#17	#15 AND #16	33	10:31:26	
		#16	review[pt]	1801717	10:31:01	
		#15	#7 AND #8	514	10:30:11	
		#13	#11 AND #12	17	10:27:13	
		#12	systematic[sb]	214838	10:27:13	
		#11	#7 AND #10	1031	10:26:29	
		#10	#8 OR #9	104175	10:25:33	
		#9	"Thrombosis"[MAJR]	96683	10:25:33	
		#8	thrombos*[ti]	41601	10:25:33	
		#7	#1 OR #2 OR #3 OR #4 OR #5	50535	10:24:36	

		#1	vascular access*[tiab]	6002	10:24:36
		#5	graft[ti] 44066	10:24:09	
		#4	access blood flow[tiab]	136	10:24:09
		#3	access flow[tiab] 204	10:24:09	
		#2	dialysis access*[tiab]	780	10:24:09
The Cochrane Library	21.10.2013				

How efficient is Doppler ultrasound in comparison with dilution screening methods to determine blood flow in the arteriovenous fistula?					
MEDLINE PubMed	17.10.2013	#1	"Arteriovenous Shunt, Surgical"[MAJR]	5730	
		#2	fistula*[tiab]	74009	
		#3	graft[tiab]	160906	
		#4	AVF*[tiab]	3032	
		#5	vascular access*[tiab]	6167	
		#6	dialysis access*[tiab]	795	
		#7	hemodialysis access*[tiab]	947	
		#8	haemodialysis access*[tiab]	113	
		#9	#1 OR #2 OR #3 OR #4 OR #5 OR #6 OR #7 OR #8		237946
		#10	"Renal Dialysis"[MeSH]	90381	
		#11	dialysis[tiab]	81528	
		#12	hemodialysis[tiab]	45906	
		#13	haemodialysis[tiab]	11749	
		#14	#10 OR #11 OR #12 OR #13	135924	
		#15	#9 AND #14	12278	
		#16	"Blood Flow Velocity"[MeSH]	49983	
		#17	flow monitoring[tiab]	398	
		#18	flow measurement*[tiab]	5914	
		#19	blood flow rate[tiab]	1695	
		#20	flow evaluation[tiab]	225	
		#21	Qa[tiab] 4591		
		#22	#16 OR #17 OR #18 OR #19 OR #20 OR #21	60434	
		#23	#15 AND #22	587	
		#24	systematic[sb]	208579	
		#25	review[pt]	1840518	
		#26	#23 AND #24	6	
		#27	(#23 AND #25) NOT #26	41	
		#28	#23 NOT (#26 OR #27)	540	
		#29	ultrasound dilution[tiab]	140	
		#30	ultrasonic dilution[tiab]	9	
		#31	thermodilution[tiab]	3976	
		#32	#29 OR #30 OR #31	4106	
		#33	"Ultrasonography, Doppler"[MAJR] 21563		
		#34	Doppler[tiab]	81048	
		#35	#33 OR #34	86553	
		#36	#28 AND #32 AND #35	18	

ARTERIOVENOUS FISTULA COMPLICATIONS

Is there a treatment that has better results (percutaneous transluminal angioplasty versus surgery) in juxta-anastomotic stenosis, assessed in terms of patency and/or thrombosis and cost/benefit?						
MEDLINE PubMed	13.11.2013	#45	#36 OR #37 OR #38 OR #44		48	09:53:25
		#44	#42 AND #43	7	09:52:30	
		#43	stenos*[tiab]	118467	09:52:30	
		#42	#39 OR #40	384	09:52:01	
		#39	JAS[tiab]	324	09:52:01	
		#40	JASS[tiab]	60	09:50:47	
		#38	juxtaanastomotic[tiab]	4	09:50:10	
		#37	juxtanastomotic[tiab]	0	09:50:02	
		#36	juxta-anastomotic[tiab]	41	09:49:53	
ISI Web of Knowledge	13.11.2013	Title=(Juxta-anastomotic) AND Author=(napoli m) Timespan=All years. Search language=English 1 hit (Almonacid 2012) Title=(Juxta-anastomotic) AND Title=(Endovascular AND versus AND surgical) Timespan=All years. Search language=English 22 hits				
NICE Evidence	14.11.2013	Juxta-anastomotic AND stenos* 1 hit (Tessitore)				
The Cochrane Library	17.10.2013	#1	Juxta-anastomotic:ti,ab	1		
		#2	stenos*:ti,ab	3708		
		#3	#1 and #2	1		
		NHS Economic Evaluation Database : Issue 4 of 4, October 2013 1 hit (Tessitore)				

Is there a treatment that has better results (percutaneous transluminal angioplasty versus surgery versus prosthesis interposition) in the management of the non-matured arteriovenous fistula, assessed in terms of arteriovenous fistula which allows its use in terms of dialysis, patency and/or thrombosis?					
MEDLINE PubMed	21.11.2013	#66	fistula*[tiab]	72888	
		#67	AVF*[tiab]	2938	
		#68	graft[tiab]	158159	
		#69	#66 OR #67 OR #68	228151	
		#70	"Renal Dialysis"[MeSH]	89358	
		#71	dialysis[tiab]	80244	
		#72	hemodialysis[tiab]	45100	
		#73	haemodialysis[tiab]	11614	
		#74	renal[ti]	217327	
		#75	#70 OR #71 OR #72 OR #73 OR #74		327190
		#76	non-matur*[tiab]	113	
		#77	nonmatur*[tiab]	116	
		#78	mature[tiab]	134813	
		#79	maturation[tiab]	103480	
		#80	immature[tiab]	60293	
		#81	#76 OR #77 OR #78 OR #79 OR #80		260858
		#82	#69 AND #75	19236	
		#83	#82 AND #81	462	
		#88	systematic[sb]	215954	
		#89	#83 AND #88	13	
		#96	review[pt]	1805186	
		#97	#83 AND #96	70	
		#99	#97 NOT #89	62	

		#101 #89 OR #99 75 #102 (randomized controlled trial[pt] OR controlled clinical trial[pt] OR randomized[tiab] OR placebo[tiab] OR drug therapy[sh] OR randomly[tiab] OR trial[tiab] OR groups[tiab]) NOT (animals [mh] NOT humans [mh]) 2800174 #103 #83 AND #102 81 #104 #103 NOT #101 69 #107 #83 NOT #106 318
The Cochrane Library	19.11.2013	#1 fistula*:ti,ab 993 #2 AVF*:ti,ab 86 #3 graft:ti,ab 10002 #4 #1 or #2 or #3 10929 #5 MeSH descriptor: [Renal Dialysis] explode all trees 4004 #6 dialysis:ti,ab 4556 #7 hemodialysis:ti,ab 3483 #8 haemodialysis:ti,ab 1039 #9 renal:ti 9961 #10 #5 or #6 or #7 or #8 or #9 16277 #11 #4 and #10 1383 #12 non-matur*:ti,ab 3 #13 nonmatur*:ti,ab 0 #14 mature:ti,ab 963 #15 maturation:ti,ab 1094 #16 immature:ti,ab 379 #17 #12 or #13 or #14 or #15 or #16 2228 #18 #11 and #17 24

In pseudoaneurysm in native and prosthetic arteriovenous fistula, when is surgery versus percutaneous intervention versus conservative management indicated, assessed in terms of serious haemorrhagic complications or death?		
MEDLINE PubMed	18.11.2013	#42 #31 OR #33 63 08:43:25 #32 #19 AND #22 28 08:37:33 #31 #23 OR #27 38 08:37:05 #27 #26 NOT #23 36 08:27:15#26 #19 AND #21 38 08:26:45 #23 #19 AND #20 2 08:22:49 #22 (randomized controlled trial[pt] OR controlled clinical trial[pt] OR randomized[tiab] OR placebo[tiab] OR drug therapy[sh] OR randomly[tiab] OR trial[tiab] OR groups[tiab]) NOT (animals [mh] NOT humans [mh]) 2797395 08:22:20 #21 review[pt] 1803711 08:22:12 #20 systematic[sb] 215568 08:22:06 #19 #15 AND #18 316 08:07:26 #18 #16 OR #17 10318 08:06:48 #17 pseudoaneurysm*[tiab] 8533 08:06:48 #16 "Aneurysm, False"[MeSH] 6281 08:06:48 #15 #9 AND #14 21866 08:06:09 #14 #10 OR #11 OR #12 OR #13 325548 08:05:43 #13 renal[ti] 217199 08:05:43 #12 hemodialysis[tiab] 45063 08:05:43 #11 dialysis[tiab] 80185 08:05:43 #10 "Renal Dialysis"[MeSH] 89316 08:05:43 #9 #1 OR #2 OR #3 OR #4 OR #5 OR #6 OR #7 OR #8 234982 07:58:17

		#8	"Graft Occlusion, Vascular/diagnosis"[MeSH]	3518	07:58:17	
		#7	"Graft Occlusion, Vascular/ultrasonography"[MeSH]	587	07:58:17	
		#6	dialysis access*[tiab]	783	07:58:17	
		#5	vascular access*[tiab]	6013	07:58:17	
		#4	AVF*[tiab]	2936	07:58:17	
		#3	graft[tiab]	158037	07:58:17	
		#2	fistula*[tiab]	72845	07:58:17	
		#1	"Arteriovenous Shunt, Surgical"[MAJR]	5656	07:58:17	
The Cochrane Library	19.11.2013	#1	pseudoaneurysm*:ti,ab	64		
		#2	fistula*:ti,ab	993		
		#3	graft:ti,ab	10002		
		#4	AVF*:ti,ab	86		
		#5	vascular access*:ti,ab	672		
		#6	dialysis access*:ti,ab	361		
		#7	#2 or #3 or #4 or #5 or #6	11482		
		#8	dialysis:ti,ab	4556		
		#9	hemodialysis:ti,ab	3483		
		#10	renal:ti	9961		
		#11	#8 or #9 or #10	15490		
		#12	#7 and #11	1502		
		#13	#1 and #12	3		

In the presence of stenosis in the arteriovenous fistula, is there a significant difference between elective intervention and post-thrombosis treatment?						
MEDLINE PubMed	23.01.2014	#1	"Renal Dialysis"[MeSH]	89807		
		#2	dialysis[tiab]	80911		
		#3	hemodialysis[tiab]	45530		
		#4	haemodialysis[tiab]	11676		
		#5	hemofilt*[tiab]	3099		
		#6	haemofilt*[tiab]	848		
		#7	ultrafiltrat*[tiab]	13651		
		#8	#1 OR #2 OR #3 OR #4 OR #5 OR #6 OR #7	146101		
		#9	dialysis[ti] AND access*[ti]	557		
		#10	vascular[ti] AND access*[ti]	2384		
		#11	dialysis access*[tiab]	790		
		#12	vascular access*[tiab]	6092		
		#13	fistula*[tiab]	73532		
		#14	AVF*[tiab]	2984		
		#15	Graft*[tiab]	239907		
		#16	#9 OR #10 OR #11 OR #12 OR #13 OR #14 OR #15	313493		
		#17	#8 AND #16	12616		
		#18	#16 NOT #17	300877		
		#19	stenosed[tiab]	2468		
		#20	pre-emptive*[tiab]	1796		
		#21	patent[tiab]	31666		
		#22	#19 OR #20 OR #21	35755		
		#23	thrombosed[tiab]	3602		
		#24	post-thrombos*[tiab]	18		
		#25	clotted[tiab]	1223		
		#26	occluded[tiab]	21631		
		#27	#23 OR #24 OR #25 OR #26	26136		
		#28	#22 AND #27	2648		
		#29	#17 AND #28	96		
		#30	#18 AND #28	1133		

ISI Web of Science	23.01.2014	Citations to http://www.ncbi.nlm.nih.gov/pubmed/17517799 23

In high-flow arteriovenous fistula, what therapeutic attitude should be adopted and what are the criteria (risk factors)?		
MEDLINE PubMed	18.11.2013	#48 #47 NOT #27 5 07:24:37 #47 #46 AND #22 AND #26 110 07:23:57 #46 #45 OR #17 254886 07:23:57 #45 access[ti] 27884 07:23:42 #44 #27 NOT #43 85 07:22:05 #43 #37 OR #39 20 07:21:26 #39 #38 NOT #37 11 07:09:23 #38 #27 AND #30 11 07:09:08 #34 #33 NOT #31 7 07:06:49 #33 #27 AND #29 8 07:06:33 #31 #27 AND #28 2 07:05:02 #30 (randomized controlled trial[pt] OR controlled clinical trial[pt] OR randomized[tiab] OR placebo[tiab] OR drug therapy[sh] OR randomly[tiab] OR trial[tiab] OR groups[tiab]) NOT (animals [mh] NOT humans [mh]) 2804162 07:04:25 #29 review[pt] 1805594 07:04:22 #28 systematic[sb] OR "Meta-Analysis"[pt] 217055 07:04:07 #27 #17 AND #22 AND #26 105 07:03:32 #26 #23 OR #24 OR #25 7953 07:03:08 #25 hyper function*[tiab] 78 07:03:08 #24 hyperfunction*[tiab] 3519 07:03:08 #23 high flow[tiab] 4367 07:03:08 #22 #18 OR #19 OR #20 OR #21 326048 07:01:52 #21 renal[ti] 217515 07:01:52 #20 hemodialysis[tiab] 45147 07:01:52 #19 dialysis[tiab] 80343 07:01:52 #18 "Renal Dialysis"[MeSH] 89358 07:01:52 #17 #14 OR #15 OR #16 229407 07:00:59 #16 graft[tiab] 158380 07:00:59 #15 fistula*[tiab] 72988 07:00:58 #14 "Arteriovenous Shunt, Surgical"[MAJR] 5658 07:00:58

Is there a criterion that indicates in which cases, the moment and the way to treat central stenosis, assessed in terms of patency, usable arteriovenous fistula and/or thrombosis?		
MEDLINE PubMed	18.11.2013	#80 systematic[sb] 215568 11:59:10 #85 #83 OR #84 88 12:04:53 #79 #72 AND #78 963 11:56:03 #78 #73 OR #74 OR #75 OR #76 OR #77 50000 11:55:36 #74 thrombosed[ti] 793 11:55:36 #73 "Graft Occlusion, Vascular/therapy"[MAJR] 3039 11:55:36 #77 occluded[ti] 1915 11:54:55 #76 thrombotic[ti] 7102 11:54:55 #75 thrombosis[ti] 37723 11:54:55 #72 #66 AND #71 21866 11:53:17 #71 #67 OR #68 OR #69 OR #70 325548 11:52:39 #70 renal[ti] 217199 11:52:39 #69 hemodialysis[tiab] 45063 11:52:39 #68 dialysis[tiab] 80185 11:52:39 #67 "Renal Dialysis"[MeSH] 89316 11:52:39 #60 graft[tiab] 158037 11:51:39 #61 AVF*[tiab] 2936 11:51:39 #62 vascular access*[tiab] 6013 11:51:39 #63 dialysis access*[tiab] 783 11:51:39 #64 "Graft Occlusion, Vascular/ultrasonography"[MeSH] 587 11:51:39 #65 "Graft Occlusion, Vascular/diagnosis"[MeSH] 3518 11:51:39 #66 #58 OR #59 OR #60 OR #61 OR #62 OR #63 OR #64 OR #65 234982 11:51:39 #59 fistula*[tiab] 72845 11:51:38 #58 "Arteriovenous Shunt, Surgical"[MAJR] 5656 11:51:38
The Cochrane Library	19.11.2013	#1 fistula*:ti,ab 993 #2 graft:ti,ab 10002 #3 AVF*:ti,ab 86 #4 vascular access*:ti,ab 672 #5 dialysis access*:ti,ab 361 #6 #1 or #2 or #3 or #4 or #5 11482 #7 dialysis:ti,ab 4556 #8 hemodialysis:ti,ab 3483 #9 renal:ti 9961 #10 #7 or #8 or #9 15490 #11 #6 and #10 1502 #12 thrombosis:ti 2702 #13 thrombotic:ti 253 #14 thrombosed:ti 40 #15 occluded:ti 194 #16 #12 or #13 or #14 or #15 3165 #17 #11 and #16 49

In arteriovenous fistula thrombosis, what would be the initial indication (percutaneous transluminal angioplasty versus surgery) assessed in terms of arteriovenous fistula patency and/or thrombosis? Does it depend on location? **In prosthetic arteriovenous fistula thrombosis, what would be the initial indication (percutaneous transluminal angioplasty versus surgery versus fibrinolysis) assessed in terms of arteriovenous fistula patency and/or thrombosis? Does it depend on location?**		
MEDLINE PubMed	18.11.2013	#80 systematic[sb] 215568 11:59:10 #85 #83 OR #84 88 12:04:53 #79 #72 AND #78 963 11:56:03 #78 #73 OR #74 OR #75 OR #76 OR #77 50000 11:55:36 #74 thrombosed[ti] 793 11:55:36 #73 "Graft Occlusion, Vascular/therapy"[MAJR] 3039 11:55:36 #77 occluded[ti] 1915 11:54:55 #76 thrombotic[ti] 7102 11:54:55 #75 thrombosis[ti] 37723 11:54:55 #72 #66 AND #71 21866 11:53:17 #71 #67 OR #68 OR #69 OR #70 325548 11:52:39 #70 renal[ti] 217199 11:52:39 #69 hemodialysis[tiab] 45063 11:52:39 #68 dialysis[tiab] 80185 11:52:39 #67 "Renal Dialysis"[MeSH] 89316 11:52:39 #60 graft[tiab] 158037 11:51:39 #61 AVF*[tiab] 2936 11:51:39 #62 vascular access*[tiab] 6013 11:51:39 #63 dialysis access*[tiab] 783 11:51:39 #64 "Graft Occlusion, Vascular/ultrasonography"[MeSH] 587 11:51:39 #65 "Graft Occlusion, Vascular/diagnosis"[MeSH] 3518 11:51:39 #66 #58 OR #59 OR #60 OR #61 OR #62 OR #63 OR #64 OR #65 234982 11:51:39 #59 fistula*[tiab] 72845 11:51:38 #58 "Arteriovenous Shunt, Surgical"[MAJR] 5656 11:51:38
The Cochrane Library	19.11.2013	#1 fistula*:ti,ab 993 #2 graft:ti,ab 10002 #3 AVF*:ti,ab 86 #4 vascular access*:ti,ab 672 #5 dialysis access*:ti,ab 361 #6 #1 or #2 or #3 or #4 or #5 11482 #7 dialysis:ti,ab 4556 #8 hemodialysis:ti,ab 3483 #9 renal:ti 9961 #10 #7 or #8 or #9 15490 #11 #6 and #10 1502 #12 thrombosis:ti 2702 #13 thrombotic:ti 253 #14 thrombosed:ti 40 #15 occluded:ti 194 #16 #12 or #13 or #14 or #15 3165 #17 #11 and #16 49

What is the approach in native and prosthetic arteriovenous fistula diagnosed with steal syndrome?		
MEDLINE PubMed	20.03.2014	#1 "Arteriovenous Shunt, Surgical"[MAJR] 5749 #2 fistula*[tiab] 74062 #3 graft[tiab] 161051 #4 AVF*[tiab] 3041 #5 vascular access*[tiab] 6172 #6 dialysis access*[tiab] 796 #7 hemodialysis access*[tiab] 948 #8 haemodialysis access*[tiab] 113 #9 #1 OR #2 OR #3 OR #4 OR #5 OR #6 OR #7 OR #8 238155 #10 "Renal Dialysis"[MeSH] 90440 #11 dialysis[tiab] 81580 #12 hemodialysis[tiab] 45936 #13 haemodialysis[tiab] 11757 #14 #10 OR #11 OR #12 OR #13 136010 #15 #9 AND #14 12300 #16 steal syndrome[tiab] 1340 #17 steal[ti] 1577 #18 distal hypoperfusion[ti] 1 #19 distal hypoperfusion ischemi*[tiab] 3 #20 distal hypoperfusion ischaemi*[tiab] 7 #21 DHIS[tiab] 27 #22 distal ischemia[ti] 13 #23 hand ischemia[ti] 62 #24 hand ischaemia[ti] 13 #25 distal ischaemia[ti] 6 #26 #16 OR #17 OR #18 OR #19 OR #20 OR #21 OR #22 OR #23 OR #24 OR #25 2098 #27 #15 AND #26 265 #28 systematic[sb] 209002 #29 review[pt] 1842203 #30 (randomized controlled trial[pt] OR controlled clinical trial[pt] OR randomized[tiab] OR placebo[tiab] OR drug therapy[sh] OR randomly[tiab] OR trial[tiab] OR groups[tiab]) NOT (animals [mh] NOT humans [mh]) 2859864 #31 #27 AND #28 4 #34 (#27 AND #29) NOT #31 36 #39 (#27 AND #30) NOT (#31 OR #34) 9 #41 #27 NOT (#31 OR #34 OR #39) 216 #42 operati*[tiab] 605853 #43 surg*[tiab] 1321646 #44 band*[ti] 28380 #45 ligat*[ti] 15340 #46 revascularization[ti] 10002 #47 #42 OR #43 OR #44 OR #45 OR #46 1737697 #48 #41 AND #47 129
The Cochrane Library	20.03.2014	#1 MeSH descriptor: [Arteriovenous Shunt, Surgical] explode all trees 222 #2 fistula*:ti,ab 1102 #3 graft:ti,ab 10767 #4 AVF*:ti,ab 99 #5 vascular access*:ti,ab 757 #6 dialysis access*:ti,ab 378 #7 hemodialysis access*:ti,ab 292

		#8 haemodialysis access*:ti,ab 67 #9 #1 or #2 or #3 or #4 or #5 or #6 or #7 or #8 12466 #10 MeSH descriptor: [Renal Dialysis] explode all trees 4128 #11 dialysis:ti,ab 4887 #12 hemodialysis:ti,ab 3761 #13 haemodialysis:ti,ab 1094 #14 #10 or #11 or #12 or #13 8086 #15 #9 and #14 760 #16 steal syndrome:ti,ab 14 #17 steal:ti 14 #18 distal hypoperfusion:ti,ab 5 #19 distal hypoperfusion ischemi*:ti,ab 1 #20 distal hypoperfusion ischaemi*:ti,ab 0 #21 DHIS:ti,ab 0 #22 distal ischemia:ti,ab 117 #23 hand ischemia:ti,ab 87 #24 hand ischaemia:ti,ab 42 #25 distal ischaemia:ti,ab 50 #26 #16 or #17 or #18 or #19 or #20 or #21 or #22 or #23 or #24 or #25 311 #27 #15 and #26 3

CENTRAL VENOUS CATHETERS

In the patient who cannot have a native arteriovenous fistula, is central venous catheter the vascular access of choice versus prosthetic arteriovenous fistula?						
MEDLINE PubMed	16.01.2014	#1	"Renal Dialysis"[MeSH]	89720	5:51:33	
		#2	dialysis[tiab]	80832	5:51:37	
		#3	hemodialysis[tiab]	45467	5:51:43	
		#4	haemodialysis[tiab]	11669	5:51:48	
		#5	hemofilt*[tiab]	3095	5:51:54	
		#6	haemofilt*[tiab]	847	5:52:00	
		#7	ultrafiltrat*[tiab]	13638	5:52:05	
		#8	#1 OR #2 OR #3 OR #4 OR #5 OR #6 OR #7	145953	5:52:14	
		#37	catheter*[ti]	46754	8:22:48	
		#38	graft[ti]	44466	8:22:57	
		#39	#8 AND #37 AND #38	10	8:23:41	
		#42	access[ti] AND type[ti]	177	8:29:46	
		#43	#8 AND #42	46	8:29:59	
		#59	#39 OR #43	56		

What is the best treatment for persistent dysfunction of the tunnelled catheter (stripping, sheath angioplasty, catheter exchange)?						
MEDLINE PubMed	4.12.2013	#16	"Renal Dialysis"[MeSH]	89358		
		#17	dialysis[tiab]	80374		
		#18	hemodialysis[tiab]	45168		
		#19	haemodialysis[tiab]	11627		
		#20	#16 OR #17 OR #18 OR #19	134155		
		#21	tunneled hemodialysis catheter*[tiab]	125		
		#22	tunneled haemodialysis catheter*[tiab]	5		
		#23	tunneled dialysis catheter*[tiab]	101		
		#24	central haemodialysis catheter*[tiab]	56		
		#25	central hemodialysis catheter*[tiab]	351		
		#26	central dialysis catheter*[tiab]	11		
		#27	dialysis catheter*[ti]	695		
		#28	hemodialysis catheter*[ti]	430		
		#29	haemodialysis catheter*[ti]	91		
		#30	tunneled catheter*[tiab]	264		
		#31	tunneled[ti] AND catheter*[ti]	326		
		#32	central catheter*[tiab]	1259		
		#33	central[ti] AND catheter*[ti]	4705		
		#34	#21 OR #22 OR #23 OR #24 OR #25 OR #26 OR #27 OR #28 OR #29 OR #30 OR #31 OR #32 OR #33	6879		
		#35	#20 AND #34	1837		
		#36	failing[tiab]	17887		
		#37	failed[tiab]	209483		
		#38	malfunction*[tiab]	9917		
		#39	function*[tiab]	2389307		
		#40	dysfunction*[tiab]	266822		
		#41	poor flow[tiab]	141		
		#42	occluded[tiab]	21530		
		#43	occlusion[tiab]	107717		
		#44	restor*[ti] AND patency[ti]	131		
		#45	#36 OR #37 OR #38 OR #39 OR #40 OR #41 OR #42 OR #43 OR #44	2832632		
		#46	#35 AND #45	555		
		#47	systematic[sb] OR "Meta-Analysis"[pt]	217257		
		#48	review[pt]	1805744		

		#49 (randomized controlled trial[pt] OR controlled clinical trial[pt] OR randomized[tiab] OR placebo[tiab] OR drug therapy[sh] OR randomly[tiab] OR trial[tiab] OR groups[tiab]) NOT (animals [mh] NOT humans [mh]) 2805412 #50 cost*[ti] OR economic[tiab] 187829 #51 #46 AND #47 18 #57 #46 AND #48 57 #58 #57 NOT #51 52 #59 #51 OR #58 70 #60 #46 AND #49 128 #61 #60 NOT #59 113
The Cochrane Library	4.12.2013	#1 MeSH descriptor: [Renal Dialysis] explode all trees 4010 #2 dialysis:ti,ab 4559 #3 hemodialysis:ti,ab 3486 #4 haemodialysis:ti,ab 1041 #5 #1 or #2 or #3 or #4 7570 #6 tunneled hemodialysis catheter*:ti,ab 68 #7 tunneled haemodialysis catheter*:ti,ab 46 #8 tunneled dialysis catheter*:ti,ab 110 #9 central haemodialysis catheter*:ti,ab 81 #10 central dialysis catheter*:ti,ab 383 #11 dialysis catheter*:ti 271 #12 hemodialysis catheter*:ti 137 #13 haemodialysis catheter*:ti 71 #14 tunneled catheter*:ti,ab 223 #15 (tunneled near catheter*):ti 83 #16 central catheter*:ti 3239 #17 (central near catheter*):ti 514 #18 #6 or #7 or #8 or #9 or #10 or #11 or #12 or #13 or #14 or #15 or #16 or #17 3421 #19 failing:ti,ab 12222 #20 failed:ti,ab 12206 #21 malfunction*:ti,ab 180 #22 function*:ti,ab 72865 #23 dysfunction*:ti,ab 10988 #24 "poor flow":ti,ab 5 #25 occluded:ti,ab 1058 #26 occlusion:ti,ab 4157 #27 (restor* near patency):ti 4 #28 #19 or #20 or #21 or #22 or #23 or #24 or #25 or #26 or #27 93434 #29 #5 and #18 and #28 97

Is the use of antibiotic prophylaxis to lock the tunnelled central venous catheter for haemodialysis justified?		
MEDLINE PubMed	29.11.2013	#24 #23 NOT #22 625 03:28:28 #22 #19 AND #20 47 03:27:37 #21 (randomized controlled trial[pt] OR controlled clinical trial[pt] OR randomized[tiab] OR placebo[tiab] OR drug therapy[sh] OR randomly[tiab] OR trial[tiab] OR groups[tiab]) NOT (animals [mh] NOT humans [mh]) 2803851 03:27:19 #20 systematic[sb] OR "Meta-Analysis"[pt] 216999 03:26:48 #19 #8 AND #13 AND #18 1422 03:26:15 #18 #14 OR #15 OR #16 OR #17 640578 03:25:49 #17 antibiotic*[tiab] 223345 03:25:49 #16 antimicrobial*[tiab] 88433 03:25:49

		#15 "Anti-Bacterial Agents"[MeSH] 256320 03:25:49 #14 "Anti-Infective Agents"[MeSH] 489067 03:25:49 #13 #9 OR #10 OR #11 OR #12 155639 03:24:53 #12 CVC*[tiab] 2840 03:24:53 #11 catheter*[tiab] 151075 03:24:53 #10 "Catheterization, Central Venous"[MeSH] 11416 03:24:52 #9 "Catheter-Related Infections"[MeSH] 1682 03:24:52 #8 #1 OR #2 OR #3 OR #4 OR #5 OR #6 OR #7 205678 03:23:34 #7 haemodialysis[tiab] 11618 03:23:34 #6 hemodialysis[tiab] 45144 03:23:34 #5 dialysis[tiab] 80337 03:23:34 #4 "Renal Dialysis"[MeSH] 89358 03:23:33 #3 AVF*[tiab] 2947 03:23:33 #2 vascular access*[tiab] 6025 03:23:33 #1 fistula*[tiab] 72980 03:23:33
The Cochrane Library	29.11.2013	#1 fistula* 1531 #2 vascular access* 1750 #3 AVF* 109 #4 dialysis 8570 #5 hemodialysis 3839 #6 haemodialysis 1420 #7 MeSH descriptor: [Renal Dialysis] explode all trees 4010 #8 #1 or #2 or #3 or #4 or #5 or #6 or #7 12091 #9 catheter* 13132 #10 CVC* 296 #11 MeSH descriptor: [Catheter-Related Infections] explode all trees 133 #12 #9 or #10 or #11 13219 #13 MeSH descriptor: [Anti-Infective Agents] explode all trees 21871 #14 MeSH descriptor: [Anti-Bacterial Agents] explode all trees 8595 #15 antimicrobial* 6308 #16 antibiotic* 16186 #17 #13 or #14 or #15 or #16 35529 #18 #8 and #12 and #17 258

What influence do the different types of central venous catheter lumen lock have in catheter dysfunction and infection?		
MEDLINE PubMed	15.01.2014	#1 "Renal Dialysis"[MeSH] 89715 #2 dialysis[tiab] 80798 #3 hemodialysis[tiab] 45453 #4 haemodialysis[tiab] 11667 #5 hemofilt*[tiab] 3094 #6 haemofilt*[tiab] 846 #7 ultrafiltrat*[tiab] 13631 #8 #1 OR #2 OR #3 OR #4 OR #5 OR #6 OR #7 145903 #9 catheter*[tiab] 151846 #10 "Catheters, Indwelling"[MeSH] 15660 #11 #9 OR #10 156911 #24 #8 AND #11 8179 #25 lock*[tiab] 26825 #26 #24 AND #25 278 #27 systematic[sb] 219885 #28 review[pt] 1820405 #29 (randomized controlled trial[pt] OR controlled clinical trial[pt] OR randomized[tiab] OR placebo[tiab] OR drug therapy[sh] OR randomly[tiab]

		OR trial[tiab] OR groups[tiab]) NOT (animals [mh] NOT humans [mh]) 2824736 #30 #26 AND #27 16 #35 (#26 AND #28) NOT #30 34
The Cochrane Library	15.01.2014	#1 dialysis:ti,ab 4624 #2 renal replacement therapy:ti,ab 719 #3 ((acute or chronic) and (kidney fail* or renal fail*)):ti,ab 2725 #4 (haemodialysis or hemodialysis):ti,ab 4571 #5 #1 or #2 or #3 or #4 9576 #6 catheter*:ti,ab 9319 #7 #5 and #6 449 #8 lock*:ti,ab 1029 #9 #7 and #8 70

Do the detection and eradication of Staphylococcus aureus in nasal carriers reduce the episodes of bacteraemia in relation to central venous catheter? Is it cost effective?		
MEDLINE PubMed	02.12.2013	#13 fistula*[tiab] 72988 #14 vascular access*[tiab] 6027 #15 AVF*[tiab] 2949 #16 "Renal Dialysis"[MeSH] 89358 #17 dialysis[tiab] 80343 #18 hemodialysis[tiab] 45147 #19 haemodialysis[tiab] 11619 #20 #13 OR #14 OR #15 OR #16 OR #17 OR #18 OR #19 205694 #21 "Staphylococcus aureus"[MeSH] 48231 #22 Staphylococcus aureus[tiab] 67482 #23 MRSA[tiab] 13510 #24 #21 OR #22 OR #23 81386 #25 nasal[tiab] 80746 #26 #20 AND #24 AND #25 202 #27 systematic[sb] OR "Meta-Analysis"[pt] 217055 #28 review[pt] 1805594 #29 (randomized controlled trial[pt] OR controlled clinical trial[pt] OR randomized[tiab] OR placebo[tiab] OR drug therapy[sh] OR randomly[tiab] OR trial[tiab] OR groups[tiab]) NOT (animals [mh] NOT humans [mh]) 2804162 #30 cost*[ti] OR economic[tiab] 187697 #31 #26 AND #27 8 #32 #26 AND #28 35 #33 #32 NOT #31 31 #37 #31 OR #33 39 #38 #26 AND #29 96 #39 #38 NOT #37 74 #40 #37 OR #39 113 #41 #26 AND #30 4 #42 #40 OR #41 115 #43 #26 NOT #42 87
		#25 Staphylococcus aureus[ti] 27055 #26 MRSA[ti]3135 #23 nasal[ti] 32580 #27 #25 OR #26 29068 #28 #23 AND #27 777 #29 #28 AND systematic[sb] 7

The Cochrane Library	02.12.2013	#1 Staphylococcus aureus:ti 389 #2 MRSA:ti 73 #3 #1 or #2 431 #4 nasal:ti 4161 #5 #3 and #4 47

Are there differences in the indication for non-tunnelled versus tunnelled central venous catheter use?		
MEDLINE PubMed	16.01.2014	#1 "Renal Dialysis"[MeSH] 89720 #2 dialysis[tiab] 80832 #3 hemodialysis[tiab] 45467 #4 haemodialysis[tiab] 11669 #5 hemofilt*[tiab] 3095 #6 haemofilt*[tiab] 847 #7 ultrafiltrat*[tiab] 13638 #8 #1 OR #2 OR #3 OR #4 OR #5 OR #6 OR #7 145953 #9 nontunneled catheter*[tiab] 18 #10 non tunneled catheter*[tiab] 12 #11 nontunnelled catheter*[tiab] 4 #12 non tunnelled catheter*[tiab] 4 #13 temporary catheter*[tiab] 171 #14 nontunneled[ti] AND catheter*[ti] 12 #15 non tunneled[ti] AND catheter*[ti] 11 #16 nontunnelled[ti] AND catheter*[ti] 4 #17 non tunnelled[ti] AND catheter*[ti] 4 #18 temporary[ti] AND catheter*[ti] 207 #19 #9 OR #10 OR #11 OR #12 OR #13 OR #14 OR #15 OR #16 OR #17 OR #18 403 #20 #8 AND #19 186 #21 systematic[sb] 220112 #22 review[pt] 1821036 #23 (randomized controlled trial[pt] OR controlled clinical trial[pt] OR randomized[tiab] OR placebo[tiab] OR drug therapy[sh] OR randomly[tiab] OR trial[tiab] OR groups[tiab]) NOT (animals [mh] NOT humans [mh]) 2826244 #24 #20 AND #21 2 #26 (#20 AND #22) NOT #24 15 #32 #24 OR #26 17 #33 (#20 AND #23) NOT #32 51

Do bacteraemia related to secondary infection by Staphylococcus aureus, Pseudomonas sp. or Candida sp. in catheters force removal of the central venous catheter and, therefore, contraindicate treatment using antibiotic lock technique to attempt to conserve it?		
MEDLINE PubMed	15.01.2014	#1 "Renal Dialysis"[MeSH] 89720 #2 dialysis[tiab] 80832 #3 hemodialysis[tiab] 45467 #4 haemodialysis[tiab] 11669 #5 hemofilt*[tiab] 3095 #6 haemofilt*[tiab] 847 #7 ultrafiltrat*[tiab] 13638 #8 #1 OR #2 OR #3 OR #4 OR #5 OR #6 OR #7 145953 #61 "Catheters, Indwelling"[MeSH] 15664 #62 catheter*[tiab] 151923 #63 #61 OR #62 156988 #64 "Bacteremia"[MAJR] 14758

		#65 bacteraemia[tiab] 4218 #66 bacteremia[tiab] 16519 #67 blood stream infection*[tiab] 617 #68 Staphylococcus aureus[ti] 27273 #69 Pseudomonas[ti] 32877 #70 Candida[ti] 21428 #71 #64 OR #65 OR #66 OR #67 OR #68 OR #69 OR #70 107862 #72 #64 OR #65 OR #66 OR #67 29158 #73 #68 OR #69 OR #70 81137 #74 #72 AND #73 2433 #75 #8 AND #63 8180 #76 #71 AND #75 677 #77 #74 AND #75 56 #84 #76 NOT #77 621 #85 prevent*[ti] OR prophyl*[ti] 250274 #86 #84 NOT #85 537 #99 #86 NOT periton*[tiab] 413 #100 treatment[ti] 848602 #101 manegement[ti] 4 #102 management[ti] 260729 #103 #100 OR #101 OR #102 1103489 #21 systematic[sb] 220112 #22 review[pt] 1821036 #23 (randomized controlled trial[pt] OR controlled clinical trial[pt] OR randomized[tiab] OR placebo[tiab] OR drug therapy[sh] OR randomly[tiab] OR trial[tiab] OR groups[tiab]) NOT (animals [mh] NOT humans [mh]) 2826244 #87 #86 AND #21 9 #104 #99 AND #103 39

What is the best material and design for tunnelled central venous catheter?		
MEDLINE PubMed	17.01.2014	#1 "Renal Dialysis"[MeSH] 89752 #2 dialysis[tiab] 80857 #3 hemodialysis[tiab] 45489 #4 haemodialysis[tiab] 11674 #5 hemofilt*[tiab] 3097 #6 haemofilt*[tiab] 847 #7 ultrafiltrat*[tiab] 13640 #8 #1 OR #2 OR #3 OR #4 OR #5 OR #6 OR #7 146000 #9 "Catheters, Indwelling"[MAJR] 8721 #10 tunneled catheter*[tiab] 268 #11 tunnelled catheter*[tiab] 90 #12 tunneled[ti] AND catheter*[ti] 329 #13 tunnelled[ti] AND catheter*[ti] 99 #14 #9 OR #10 OR #11 OR #12 OR #13 9116 #15 design*[tiab] 1093374 #16 type*[tiab] 1812740 #17 #15 OR #16 2763170 #18 #14 AND #17 1364 #19 #8 AND #18 474 #20 systematic[sb] 220307 #21 review[pt] 1821868 #22 (randomized controlled trial[pt] OR controlled clinical trial[pt] OR randomized[tiab] OR placebo[tiab] OR drug therapy[sh] OR randomly[tiab] OR trial[tiab] OR groups[tiab]) NOT (animals [mh] NOT humans [mh])

		2827711 #23 #19 AND #20 14 #25 (#19 AND #21) NOT #23 57 #29 #23 OR #25 71 #30 (#19 AND #22) NOT #29 138 #34 catheter*[tiab] 151944 #35 #9 OR #34 154223 #36 #8 AND #35 7658 #37 #36 NOT periton*[tiab] 4805 #38 Ash Split[tiab] OR Canaud[tiab] OR cannon[tiab] OR Centros[tiab] OR Circle C[tiab] OR dacron[tiab] OR duo split[tiab] OR Dura flow[tiab] OR Evenmore[tiab] OR Hemoglide[tiab] OR Hemosplitt[tiab] OR high flow[tiab] OR Lifejet[tiab] OR Mahurkar[tiab] OR Optiflow[tiab] OR Opti Flow[tiab] OR oval[tiab] OR Palindrome[tiab] OR PermCath[tiab] OR pourchez[tiab] OR quinton[tiab] OR schon[tiab] OR self-centering[tiab] OR split stream[tiab] OR split tip*[tiab] OR splitcath[tiab] OR split cath[tiab] OR step tip*[tiab] OR Tesio[tiab] OR twin cylinde[tiab] 21304 #39 #37 AND #38 206 #40 #39 AND #20 1 #41 (#39 AND #21) NOT #40 13 #42 #40 OR #41 14 #43 (#39 AND #22) NOT #42 41 #44 #42 OR #43 55 #45 trial[tiab] OR compar*[ti] OR prospectiv*[tiab] 1145775 #46 (#39 AND #45) NOT #44 20
Cochrane Central Register of Controlled Trials : Issue 12 of 12, December 2013 The Cochrane Library	17.01.2014	#1 MeSH descriptor: [Renal Dialysis] explode all trees 4099 #2 dialysis:ti,ab 4624 #3 hemodialysis:ti,ab 3549 #4 haemodialysis:ti,ab 1052 #5 hemofilt*:ti,ab 279 #6 haemofilt*:ti,ab 92 #7 ultrafiltrat*:ti,ab 573 #8 #1 or #2 or #3 or #4 or #5 or #6 or #7 8120 #9 tunneled catheter*:ti,ab 227 #10 tunnelled catheter*:ti,ab 227 #11 (tunneled and catheter*):ti 85 #12 (tunnelled and catheter*):ti 85 #13 #9 or #10 or #11 or #12 227 #14 design*:ti,ab 97978 #15 type*:ti,ab 47689 #16 ("Ash Split" or Canaud or cannon or Centros or "Circle C" or dacron or "duo split" or "Dura flow" or Evenmore or Hemoglide or Hemosplitt or "high flow" or Lifejet or Mahurkar or Optiflow or "Opti Flow" or oval or Palindrome or PermCath or pourchez or quinton or schon or self-centering or "split stream" or split tip* or splitcath or split cath or step tip* or Tesio):ti,ab 559 #17 #14 or #15 or #16 135666 #18 #8 and #13 and #17 39

Should ultrasound be used as the reference standard for central venous catheter placement?		
MEDLINE PubMed	15.01.2014	#1 "Renal Dialysis"[MeSH] 89715 #2 dialysis[tiab] 80798 #3 hemodialysis[tiab] 45453 #4 haemodialysis[tiab] 11667 #5 hemofilt*[tiab] 3094 #6 haemofilt*[tiab] 846 #7 ultrafiltrat*[tiab] 13631 #8 #1 OR #2 OR #3 OR #4 OR #5 OR #6 OR #7 145903 #9 catheter*[tiab] 151846 #10 "Catheters, Indwelling"[MeSH] 15660 #11 #9 OR #10 156911 #12 ultrasound*[tiab] 151689 #13 doppler[tiab] 80453 #14 radiologic*[tiab] 123177 #15 #12 OR #13 OR #14 333385 #16 #8 AND #11 AND #15 483 #17 systematic[sb] 219885 #18 review[pt] 1820405 #19 (randomized controlled trial[pt] OR controlled clinical trial[pt] OR randomized[tiab] OR placebo[tiab] OR drug therapy[sh] OR randomly[tiab] OR trial[tiab] OR groups[tiab]) NOT (animals [mh] NOT humans [mh]) 2824736 #20 #16 AND #17 8 #21 (#16 AND #18) NOT #20 59 #22 #20 OR #21 67 #23 (#16 AND #19) NOT #22 64
The Cochrane Library	15.01.2014	#1 dialysis:ti,ab 4624 #2 renal replacement therapy:ti,ab 719 #3 ((acute or chronic) and (kidney fail* or renal fail*)):ti,ab 2725 #4 (haemodialysis or hemodialysis):ti,ab 4571 #5 #1 or #2 or #3 or #4 9576 #6 catheter*:ti,ab 9319 #7 #5 and #6 449

When the catheter is conserved for haemodialysis using empirical antibiotic treatment to cover gram-positive germs in bacteraemia in a central venous catheter carrier, should cefazolin (vancomycin if value of MRSA > 15%) or daptomycin, associated with treatment for gram-negatives and locking at the appropriate concentration, be used as the initial treatment?		
MEDLINE PubMed	15.01.2014	#11 "Renal Dialysis"[MeSH] 89800 #12 dialysis[tiab] 80902 #13 hemodialysis[tiab] 45521 #14 haemodialysis[tiab] 11676 #15 hemofilt*[tiab] 3099 #16 haemofilt*[tiab] 848 #17 ultrafiltrat*[tiab] 13646 #18 #11 OR #12 OR #13 OR #14 OR #15 OR #16 OR #17 146082 #19 "Catheters, Indwelling"[MAJR] 8729 #20 tunneled catheter*[tiab] 270 #21 tunnelled catheter*[tiab] 90 #22 tunneled[ti] AND catheter*[ti] 330 #23 tunnelled[ti] AND catheter*[ti] 99 #24 #19 OR #20 OR #21 OR #22 OR #23 9126 #25 catheter*[ti] 46796

		#26 #18 AND #24 2522 #27 #18 AND #25 3020 #28 #27 NOT #26 1612 #29 cefazolin[tiab] 3232 #30 cefazoline[tiab] 88 #31 cephazolin[tiab] 256 #32 cephalosporin[tiab] 7817 #33 #29 OR #30 OR #31 OR #32 10915 #34 vancomycin[tiab] 17759 #35 glycopeptide[tiab] 5147 #36 #34 OR #35 21595 #37 daptomycin[tiab] 1683 #38 lipopeptide[tiab] 1841 #39 #37 OR #38 3274 #40 #33 OR #36 OR #39 33921 #41 #26 AND #40 38 #42 #28 AND #40 25 #43 #42 OR #41 63 #44 empiric antimicrobial*[tiab] OR empiric antibiotic*[tiab] OR empiric treatment[tiab] OR empirical antimicrobial[tiab] OR empirical antibiotic*[tiab] OR empirical treatment[tiab] 5362 #45 (empiric*[ti] AND antimicrobial*[ti]) OR (empiric*[ti] AND antibiotic*[ti]) OR (empiric[ti] AND treatment[ti]) 784 #46 #44 OR #45 5568 #47 #26 AND #46 8 #48 #28 AND #46 3 #49 #47 OR #48 11 #52 #43 OR #49 72 #53 systematic[sb] 220660 #54 review[pt] 1822881 #55 (randomized controlled trial[pt] OR controlled clinical trial[pt] OR randomized[tiab] OR placebo[tiab] OR drug therapy[sh] OR randomly[tiab] OR trial[tiab] OR groups[tiab]) NOT (animals [mh] NOT humans [mh]) 2829897 #56 #52 AND #53 1 #57 (#52 AND #54) NOT #56 4 #58 #56 OR #57 5 #59 (#52 AND #55) NOT #58 35 #60 #58 OR #59 40 #61 #52 NOT #60 32
MEDLINE PubMed	15.01.2014	#35 Add Search #34 NOT periton*[ti] 252 05:39:33 #34 Add Search #21 NOT #33 253 05:39:15 #33 Add Search #27 OR #24 27 05:38:35 #27 Add Search (#21 AND #23) NOT #24 19 05:05:59 #24 Add Search #21 AND #22 8 05:04:09 #23 Add Search review[pt] 1822881 04:53:34 #22 Add Search systematic[sb] 220660 04:53:26 #21 Add Search #16 AND #20 280 04:52:32 #20 Add Search #17 OR #18 OR #19 92463 04:52:12 #19 Add Search S aureus[tiab] 24292 04:51:59 #18 Add Search Staphylococc*[ti] 49987 04:51:45 #17 Add Search gram-positive[tiab] 35301 04:51:32 #16 Add Search #14 OR #15 1682 04:50:59 #15 Add Search #8 AND #13 1012 04:50:41 #14 Add Search #6 AND #13 670 04:50:21 #13 Add Search #9 OR #10 OR #11 OR #12 29192 04:50:06 #12 Add Search blood stream infection*[tiab] 619

		04:47:15 #11 Add Search bacteremia[tiab] 16542 04:47:10 #10 Add Search bacteraemia[tiab] 4220 04:47:04 #9 Add Search "Bacteremia"[MAJR] 14773 04:46:58 #8 Add Search #7 NOT #6 41315 04:35:26 #7 Add Search catheter*[ti] 46796 04:34:46 #6 Add Search #1 OR #2 OR #3 OR #4 OR #5 9126 04:34:33 #5 Add Search tunnelled[ti] AND catheter*[ti] 99 04:34:06 #4 Add Search tunneled[ti] AND catheter*[ti] 330 04:33:58 #3 Add Search tunnelled catheter*[tiab] 90 04:33:51 #2 Add Search tunneled catheter*[tiab] 270 04:33:44 #1 Add Search "Catheters, Indwelling"[MAJR] 8729 04:33:38

ADDITIONAL SEARCHES

When should vascular access-related information be given to the patient?					
MEDLINE PubMed	20.05.2014	#1	"Renal Dialysis"[MeSH]	90954	
		#2	dialysis[tiab]	82190	
		#3	hemodialysis[tiab]	46352	
		#4	haemodialysis[tiab]	11843	
		#5	hemofilt*[tiab]	3141	
		#6	haemofilt*[tiab]	858	
		#7	ultrafiltrat*[tiab]	13817	
		#8	#1 OR #2 OR #3 OR #4 OR #5 OR #6 OR #7		148267
		#9	"Arteriovenous Shunt, Surgical"[MAJR]		5771
		#10	fistula*[tiab]	74647	
		#11	graft[tiab]	162592	
		#12	AVF*[tiab]	3093	
		#13	vascular access*[tiab]	6273	
		#14	dialysis access*[tiab]	808	
		#15	hemodialysis access*[tiab]	958	
		#16	haemodialysis access* [tiab]		114
		#17	#9 OR #10 OR #11 OR #12 OR #13 OR #14 OR #15 OR #16		240329
		#18	#8 AND #17	12529	
		#49	inform*[tiab]	889469	
		#50	(#18 AND #49) NOT #46	469	

In AVF infection, when is surgery versus medical management indicated, assessed in terms of septic complications or death? **In prosthesis infection, when is surgery versus medical management indicated, assessed in terms of septic complications or death?**					
MEDLINE PubMed	20.05.2014	#1	"Renal Dialysis"[MeSH]	90954	
		#2	dialysis[tiab]	82190	
		#3	hemodialysis[tiab]	46352	
		#4	haemodialysis[tiab]	11843	
		#5	hemofilt*[tiab]	3141	
		#6	haemofilt*[tiab]	858	
		#7	ultrafiltrat*[tiab]	13817	
		#8	#1 OR #2 OR #3 OR #4 OR #5 OR #6 OR #7		148267
		#9	"Arteriovenous Shunt, Surgical"[MAJR]		5771
		#10	fistula*[tiab]	74647	
		#11	graft[tiab]	162592	
		#12	AVF*[tiab]	3093	
		#13	vascular access*[tiab]	6273	
		#14	dialysis access*[tiab]	808	
		#15	hemodialysis access*[tiab]	958	
		#16	haemodialysis access* [tiab]		114
		#17	#9 OR #10 OR #11 OR #12 OR #13 OR #14 OR #15 OR #16		240329
		#18	#8 AND #17	12529	
		#19	infect*[ti]	454984	
		#26	"Bacterial Infections"[MAJR]		595836
		#27	#19 OR #26	941592	
		#28	#18 AND #27	620	
		#29	systematic[sb]	213741	
		#30	review[pt]	1860779	
		#31	#28 AND #29	9	
		#37	#28 NOT #31	611	

		#38	surg*[tiab] OR operat*[tiab] OR excision[tiab]				1867052
		#39	#37 AND #38	131			
		#40	#37 NOT #39	480			
		#41	medical[ti]	233185			
		#42	#40 AND #41	0			
		#43	medical[tiab]	764781			
		#44	#40 AND #43	26			

Vascular access thrombosis: salvage versus new access							
MEDLINE PubMed	20.10.2014	#25	Add	Search #15 AND #24	88	09:51:52	
		#24	Add	Search #16 OR #17 OR #21 OR #22 OR #23	655901	09:51:38	
		#23	Add	Search pre-emptive*[tiab]	1926	09:51:15	
		#22	Add	Search rescue[tiab]	36368	09:51:11	
		#21	Add	Search salvage[tiab]	30739	09:51:06	
		#17	Add	Search operat*[ti]	108356	09:47:27	
		#16	Add	Search surg*[ti]	493336	09:47:16	
		#15	Add	Search #10 AND #14	712	09:44:58	
		#14	Add	Search #11 OR #12 OR #13	149394	09:44:43	
		#13	Add	Search clotted[ti]	161	09:44:29	
		#12	Add	Search thrombos*[ti]	43314	09:44:22	
		#11	Add	Search "Thrombosis"[MeSH]	141941	09:44:15	
		#10	Add	Search #4 AND #9	4984	09:43:51	
		#9	Add	Search #5 OR #6 OR #7 OR #8	139380	09:43:39	
		#8	Add	Search haemodialysis[tiab]	12039	09:42:04	
		#7	Add	Search hemodialysis[tiab]	47257	09:41:58	
		#6	Add	Search dialysis[tiab]	83769	09:41:52	
		#5	Add	Search "Renal Dialysis"[MeSH]	92298	09:41:46	
		#4	Add	Search #1 OR #2 OR #3	77558	09:41:42	
		#3	Add	Search AVF*[tiab]	3207	09:40:50	
		#2	Add	Search fistula*[tiab]	76119	09:40:39	
		#1	Add	Search "Arteriovenous Fistula/surgery"[MAJR]	1443	09:40:24	

Hyperflow							
MEDLINE PubMed	20.10.2014	#30	Add	Search #18 AND #29	76	10:16:47	
		#29	Add	Search #19 OR #20 OR #21 OR #22 OR #23 OR #24 OR #25 OR #26 OR #27 OR #28	15725	10:16:34	
		#28	Add	Search left ventricular hypertrophy[ti]	4085	10:15:51	
		#27	Add	Search extracardiac shunt[ti	7	10:15:39	
		#26	Add	Search cardíac function[ti]	4091	10:15:33	
		#25	Add	Search cardíac output[ti]	5908	10:15:27	
		#24	Add	Search cardíac index[ti]	209	10:15:20	
		#23	Add	Search cardiac workload[ti]	17	10:15:13	
		#22	Add	Search cardiac shunt[ti]	49	10:15:07	
		#21	Add	Search cardiac function*[ti]	4249	10:15:02	
		#20	Add	Search high flow[ti]	873	10:14:56	
		#19	Add	Search high-output[ti]	372	10:14:47	
		#18	Add	Search #8 AND #17	12818	10:14:39	
		#17	Add	Search #9 OR #10 OR #11 OR #12 OR #13 OR #14 OR #15 OR #16	245728	10:14:28	
		#16	Add	Search haemodialysis access* [tiab]	118	10:14:15	
		#15	Add	Search hemodialysis access*[tiab]	973	10:14:08	
		#14	Add	Search dialysis access*[tiab]	835	10:14:01	
		#13	Add	Search vascular access*[tiab]	6457	10:13:55	
		#12	Add	Search AVF*[tiab]	3207	10:13:48	

		#11	Add	Search graft[tiab]	166417	10:13:42
		#10	Add	Search fistula*[tiab]	76119	10:13:35
		#9	Add	Search "Arteriovenous Shunt, Surgical"[MAJR]	5887	10:13:29
		#8	Add	Search #1 OR #2 OR #3 OR #4 OR #5 OR #6 OR #7	150860	10:13:22
		#7	Add	Search ultrafiltrat*[tiab]	14028	10:13:13
		#6	Add	Search haemofilt*[tiab]	872	10:13:07
		#5	Add	Search hemofilt*[tiab]	3184	10:13:02
		#4	Add	Search haemodialysis[tiab]	12039	10:12:56
		#3	Add	Search hemodialysis[tiab]	47257	10:12:51
		#2	Add	Search dialysis[tiab]	83769	10:12:44
		#1	Add	Search "Renal Dialysis"[MeSH]	92298	10:12:39

Central venous catheters: general search of systematic reviews				
MEDLINE PubMed	23.11.2013	#1	"Renal Dialysis"[MeSH]	89358
		#2	dialysis[tiab]	80257
		#3	hemodialysis[tiab]	45106
		#4	haemodialysis[tiab]	11614
		#5	renal[ti]	217348
		#6	#1 OR #2 OR #3 OR #4 OR #5	327225
		#7	catheter*[tiab]	150944
		#8	#6 AND #7	8982
		#9	systematic[sb]	216053
		#10	#8 AND #9	148

Is the use of TEGO-type connectors effective in reducing the risk of catheter-related bacteraemia in haemodialysis?				
MEDLINE PubMed	23.11.2013	#61	"Renal Dialysis"[MeSH]	89358
		#62	dialysis[tiab]	80257
		#63	hemodialysis[tiab]	45106
		#64	haemodialysis[tiab]	11614
		#65	renal[ti]	217348
		#66	#61 OR #62 OR #63 OR #64 OR #65	327225
		#67	catheter*[tiab]	150944
		#68	#66 AND #67	8982
		#69	bloodstream infection[tiab]	2217
		#70	bacteremia[tiab]	16382
		#71	infect*[ti]	444335
		#72	Bacteremia[MAJR]	14623
		#73	"Bacterial Infections"[MAJR]	586600
		#74	#69 OR #70 OR #71 OR #72 OR #73	931009
		#75	#68 AND #74	1372
		#77	tego[tiab]	53
		#78	closed-system connector*[tiab]	2
		#76	"closed positive pressure"	715
		#79	#76 OR #77 OR #78	768
		#80	#75 AND #79	1
The Cochrane Library	23.11.2013	#1	MeSH descriptor: [Renal Dialysis] explode all trees	4004
		#2	dialysis:ti,ab	4556
		#3	hemodialysis:ti,ab	3483
		#4	haemodialysis:ti,ab	1039
		#5	renal:ti	9961
		#6	#1 or #2 or #3 or #4 or #5	16277
		#7	catheter*:ti,ab	9173

		#8 MeSH descriptor: [Bacteremia] explode all trees 701 #9 bacteremia:ti,ab 695 #10 #8 or #9 1164 #11 #6 and #7 and #10 55 #12 "closed-system connector" or "closed-system connectors" 2 #13 "closed positive pressure" 0 #14 tego:ti,ab 1 #15 #12 or #13 or #14 3 #16 #11 and #15 2

Catheter exchange via guidewire		
MEDLINE PubMed	23.11.2013	#26 Add Search #24 AND #25 55 10:31:57 #25 Add Search (randomized controlled trial[pt] OR controlled clinical trial[pt] OR randomized[tiab] OR placebo[tiab] OR drug therapy[sh] OR randomly[tiab] OR trial[tiab] OR groups[tiab]) NOT (animals [mh] NOT humans [mh]) 2971886 10:31:48 #24 Add Search #18 NOT (#20 OR #23) 302 10:31:00 #23 Add Search #21 AND #22 40 10:30:31 #22 Add Search review[pt] 1907471 10:30:03 #21 Add Search #18 NOT #20 342 10:29:49 #20 Add Search #18 AND #19 7 10:28:48 #19 Add Search systematic[sb] 226563 10:28:15 #18 Add Search #12 AND #17 349 10:27:26 #17 Add Search #13 OR #14 OR #15 OR #16 124675 10:27:12 #16 Add Search exchange[ti] 41548 10:26:59 #15 Add Search replace*[ti] 54928 10:26:50 #14 Add Search wire[tiab] 25748 10:26:36 #13 Add Search guidewire[tiab] 3401 10:26:25 #12 Add Search #8 AND #11 8532 10:26:12 #11 Add Search #9 OR #10 162682 10:26:03 #10 Add Search "Catheters, Indwelling"[MeSH] 15956 10:25:57 #9 Add Search catheter*[tiab] 157546 10:25:51 #8 Add Search #1 OR #2 OR #3 OR #4 OR #5 OR #6 OR #7 150860 10:25:44 #7 Add Search ultrafiltrat*[tiab] 14028 10:25:37 #6 Add Search haemofilt*[tiab] 872 10:25:31 #5 Add Search hemofilt*[tiab] 3184 10:25:26 #4 Add Search haemodialysis[tiab] 12039 10:25:21 #3 Add Search hemodialysis[tiab] 47257 10:25:15 #2 Add Search dialysis[tiab] 83769 10:25:10 #1 Add Search “Renal Dialysis”[MeSH] 92298 10:25:04

Where should the tunnelled catheter tip be positioned, independently of the access vein used?		
MEDLINE PubMed	23.11.2013	#1 “Renal Dialysis”[MeSH] 89358 #2 dialysis[tiab] 80257 #3 hemodialysis[tiab] 45106 #4 haemodialysis[tiab] 11614 #5 renal[ti] 217348 #6 #1 OR #2 OR #3 OR #4 OR #5 327225 #7 catheter*[tiab] 150944 #8 #6 AND #7 8982 #14 localization[ti] 71073 #15 localisation[ti] 3600 #16 site[ti] 74620 #43 situation[ti] 9583

		#44	placement[ti]	15265			
		#45	#14 OR #15 OR #16 OR #43 OR #44			173114	
		#46	#8 AND #45	534			
		#47	#46 AND systematic[sb]	10			
		#5	renal[ti]	217348			
		#49	dialysis[ti]	30369			
		#50	hemodialysis[ti]	25801			
		#51	haemodialysis[ti]	5950			
		#52	#49 OR #50 OR #51 OR #5		271300		
		#53	catheter*[ti]	46465			
		#54	#52 AND #53	2622			
		#55	#46 AND #54	314			

When it is difficult to obtain haemocultures from peripheral veins, are haemocultures obtained through the CVC lumens or the haemodialysis circuit lines an alternative to confirm the diagnosis of bacteraemia secondary to the catheter?							
MEDLINE PubMed	23.11.2013	#61	"Renal Dialysis"[MeSH]	89358			
		#62	dialysis[tiab]	80257			
		#63	hemodialysis[tiab]	45106			
		#64	haemodialysis[tiab]	11614			
		#65	renal[ti]	217348			
		#66	#61 OR #62 OR #63 OR #64 OR #65			327225	
		#67	catheter*[tiab]	150944			
		#68	#66 AND #67	8982			
		#69	bloodstream infection[tiab]		2217		
		#70	bacteremia[tiab]	16382			
		#71	infect*[ti]	444335			
		#72	Bacteremia[MAJR]	14623			
		#73	"Bacterial Infections"[MAJR]		586600		
		#74	#69 OR #70 OR #71 OR #72 OR #73			931009	
		#75	#68 AND #74	1372			
		#81	blood culture*[tiab]	17337			
		#82	blood[ti] AND culture*[ti]	5320			
		#83	#81 OR #82	19534			
		#84	#75 AND #83	112			

Is there a treatment that provides better results (PTA versus surgery versus prosthesis interposition) in non peri-anastomotic stenosis, assessed in terms of patency and/or thrombosis?							
MEDLINE PubMed	13.11.2013	#12	"Arteriovenous Shunt, Surgical"[MAJR]	5653	09:21:39		
		#13	fistula*[tiab]	72827	09:21:39		
		#14	graft[tiab]	157990	09:21:39		
		#15	AVF*[tiab]	2934	09:21:39		
		#16	vascular access*[tiab]	6010	09:21:39		
		#17	dialysis access*[tiab]	782	09:21:39		
		#18	"Graft Occlusion, Vascular/ultrasonography"[MeSH]	587	09:21:39		
		#19	"Graft Occlusion, Vascular/diagnosis"[MeSH]	3518	09:21:39		
		#20	#12 OR #13 OR #14 OR #15 OR #16 OR #17 OR #18 OR #19	234914	09:21:39		
		#21	hemodialysis[tiab]	45031	09:21:59		
		#22	dialysis[tiab]	80142	09:22:05		
		#23	"Renal Dialysis"[MeSH]	89275	09:22:12		
		#24	#21 OR #22 OR #23	131955	09:23:00		
		#25	#20 AND #24	11736	09:23:40		

		#27 stenos*[tiab] 118487 09:28:48 #85 "Graft Occlusion, Vascular"[MAJR] 5442 11:17:43 #86 #27 OR #85 122411 11:17:43 #87 #25 AND #86 1719 11:18:26 #111 stent*[tiab] 62354 12:13:30 #110 stent[tiab] 43748 12:13:24 #109 surgery[tiab] 742788 12:13:19 #108 surgical[tiab] 649072 12:13:13 #107 radiologic*[tiab] 122102 12:13:08 #106 angioplast*[tiab] 36241 12:12:59 #105 endovascular[tiab] 25638 12:12:53 #104 percutaneous[tiab] 94029 12:12:48 #103 "Stents"[MAJR] 35005 12:12:10 #102 "Angioplasty, Balloon"[MeSH] 46920 12:12:03 #112 #102 OR #103 OR #104 OR #105 OR #106 OR #107 OR #108 OR #109 OR #110 OR #111 1414605 12:14:36 #113 #87 AND #112 1051 12:15:03 #116 (randomized controlled trial[pt] OR controlled clinical trial[pt] OR randomized[tiab] OR placebo[tiab] OR drug therapy[sh] OR randomly[tiab] OR trial[tiab] OR groups[tiab]) NOT (animals [mh] NOT humans [mh]) 2795747 12:16:19 #115 review[pt] 1802933 12:15:46 #114 systematic[sb] 215342 12:15:39 #117 #113 AND #114 22 12:16:45 #118 #113 AND #115 113 12:18:25 #119 #118 NOT #117 105 12:18:25 #120 #117 OR #119 127 12:19:27 #121 #113 AND #116 192 12:20:07 #122 #121 NOT #120 171 12:20:07