



RESULTS

Patients with normally functioning fistula :

Colour Doppler sonograms of 10 patients with normally functioning fistulae were done and the PSV, EDV and RI were taken at several sites.

- At the fistula site.
- At the artery : 2cm proximal to the fistula.
- At the vein : 2 cm distal to the fistula.

The patients were 4 females and 6 males. Their age ranged from 30-71 years with a mean age of 43.3 and the age of the fistula ranged from 2 months – 19 years with a mean age of 5.99 years Table (5)

Patients with thrombosed veins :

5 patients, 5 males had thrombosed veins. Their ages ranged from 30-60 years with a mean age of 41.8 years. The duration of fistula ranged from 3 months - 15 years. Three males had B.B fistula. Two males had a RC fistula. Table (6).

Patients suffering from stenosis :

Of the 20 patient examined, 2 had stenosis more than 50%. They were 2 males had R.C. fistula. Their ages ranged from 37-55 years with a mean age of 46 years. The duration of the fistula ranged from 4months - 5 years table (7). CDS results are presented in table (8) are for one female aged 51 years with BB fistula since 6 years had stenosis less than 50%.

Aneurysm :

Aneurysm was noted in 2 patients; 2 males. Their ages ranged from 50-52 years. One male had a RC fistula and the other one had BB fistula. The duration of the fistula ranged from 9 months – 4 years. Table (9).

Table (5): Patients with normally functioning fistula

No	Sex	Age (Y)	Type	Fistula duration Year/ month	Operation	Fistula			CV 2cm distal			RA 2cm proximal			Remarks
						PSV	EDV	RI	PSV	EDV	RI	PSV	EDV	RI	
1	F	40	RC	2month	1 st	110	55	0.50	105	45	0.57	105	43	0.59	
2	M	54	RC	5 Yr	2 nd	123	68	0.40	120	68	0.43	120	68	0.43	
3	F	30	RC	5 Yr	1 st	135	60	0.50	130	85	0.34	130	84	0.35	
4	M	41	RC	10 Yr	1 st	97	65	0.30	95	65	0.31	95	65	0.31	
5	M	30	RC	1.5 Yr	1 st	185	134	0.27	189	140	0.25	186	140	0.24	Dilated CV
6	M	36	RC	1.5 Yr	1 st	91	54	0.40	84	50	0.40	86	50	0.40	Dilated and tortuous CV
7	F	53	RC	1.5 Yr	1 st	184	114	0.38	184	110	0.40	184	110	0.40	
8	M	41	BB	12 Yr	3 rd	104	52	0.50	100	50	50	100	49	0.50	
9	M	42	BB	19 Yr	2 nd	130	70	0.46	128	68	0.46	128	67	0.46	Dilated ant tortuous BV
10	F	36	BB	4 Yr	3 rd	140	80	0.42	137	75	0.45	140	77	0.45	

Table (6): Patients with venous thrombosis

No	Sex	Age (year)	Fistula	Fistula duration	Operation	Thrombosed veins				
				Year/month		BV	CV	AV	SV	
1	M	36	BB	15 Yr	3	+	-	-	-	
2	M	40	BB	1.5 Yr	4	-	-	-	+	
3	M	60	RC	4m	1	-	+	-	-	
4	M	30	BB	4 Yr	3	+	-	+	-	
5	M	43	RC	3 mon	3			Collaterals		

Table (7): CDS findings of patients with stenosis \geq than 50%

No	Sex	Age (Y)	Type	Fistula duration Year/month	Operation No	Measurements prestenotic segment			Measurements stenotic segment			Site of stenosis
						PSV	EDV	RI	PSV	EDV	RI	
1	M	55	RC	4 month	1 st	105	53	0.50	222	136	0.33	RA
2	M	37	RC	5 Y	2 nd	45	22	0.48	95	66	0.30	CV

Table (8): Patients with stenosis less than 50%

No	Sex	Age (Y)	Type	Duration Year	Operation No	Prestenotic segment			At the stenotic segment			Site of stenosis
						PSV	EDV	RI	PSV	EDV	RI	
1	F	51	BB	6 Y	3 rd	119	45	0.062	189	156	0.17	Basilic vein

Table (9) : CDS findings of patients with aneurysm

No.	Sex	Age	Fistula	Fistula duration in years	Operation No.	Measurements at fistula		
						PSV	EDV	RI
1	M	50	RC	4	1	88	55	0.37
2	M	52	BB	9 month	2	325	170	0.47