

Table (1): Demographic characteristics, clinical history, Rutherford classification, surgical and operative characteristics of studied patients

Item		DCB cases N =11		PTA cases N =14		P value
		No.	%	No.	%	
Gender	<i>Female</i>	2	18.2%	4	28.6%	0.6
	<i>Male</i>	9	81.8%	10	71.4%	
Age by years	<i>Mean ± SD</i>	61.27 ± 9.91		58.50 ± 6.28		0.4
D.M		9	81.8%	12	85.7%	0.79
Smoking		8	72.7%	10	71.4%	0.94
Dyslipidemia		4	36.4%	6	42.9%	0.7
HTN		6	54.5%	8	57.1%	0.89
Cerebrovascular disease		3	27.3%	4	28.6%	0.9
IHD		7	63.6%	7	50.0%	0.49
Obesity		3	27.3%	3	21.4%	0.7
Renal impairment		2	18.2%	1	7.1%	0.3
Rutherford classification						
stage 4		3	27.27%	4	28.57%	0.7
stage 5		8	72.72%	10	71.42%	
		DCB cases N =11		PTA cases N =14		P value
		No.	%	No.	%	
Approach	Ipsilateral	1	9.1%	1	7.14%	0.89
	contralateral	7	63.6%	9	64.2%	
	Combined contralateral and Retrograde (popliteal)	1	9.1%	1	7.14%	
	Combined ipsilateral and Retrograde (paedal)	1	9.1%	2	14.2%	
	trans brachial	1	9.1%	1	7.1%	
	Length of ISR	Long(>10cm)	5	45.5%	8	
	Short(<10cm)	6	54.5%	6	42.9%	
Run off vessels	One vessel	4	36.4%	6	42.9%	0.9
	Two vessels	6	54.5%	7	50.0%	
	Three vessels	1	9.1%	1	7.1%	
Angiographic pattern	diffuse	9	81.8%	10	71.4%	0.54
	focal	2	18.2%	4	28.6%	

Table (2): Comparison between DCB cases and PTA cases as regard the Clinical parameter pre-operative

		DCB cases N =11		PTA cases N =14		P value
		No.	%	No.	%	
Tosaka classification	Class I	3	27.3%	7	50.0%	0.5
	Class II	7	63.6%	6	42.9%	
	Class III	1	9.1%	1	7.1%	
Mean ankle pressure	Mean $\pm$ SD	55.45 $\pm$ 19.29		57.50 $\pm$ 24.79		0.8
Mean PSV ratio	Mean $\pm$ SD	2.45 $\pm$ 0.33		2.56 $\pm$ 0.30		0.3
Number of previously deployed stents	Mean $\pm$ SD	1 $\pm$ 0		1.4 $\pm$ 1		0.5
Interval of stent placement and ISR in months	Mean $\pm$ SD	7 $\pm$ 2		6 $\pm$ 3		0.1

Table (3): Comparison between DCB cases and PTA cases as regard patency rate and limb salvage after 12 months, n=25

	DCB cases N =11		PTA cases N =14		P value
	No.	%	No.	%	
Patent	8	72.7%	5	35.71%	0.05
Re-occluded within one year	3	27.2%	9	64.28%	
Stent in stent	2	18%	0	0%	
Bypass	0	0%	2	14.28 %	
DCB	0	0%	2	14.28 %	
Claudication andconservative	0	0%	2	14.28 %	
Major amputation	1	9.09%	3	21.43%	
Limb salvage	10	90.9%	11	87.57%	0.4
Major amputation	1	9.1%	3	21.43%	

There was no statistically significant difference between both groups regarding management of foot lesion however, there was a statistically significant difference regarding TLR(Figure 3)

Table (4): Comparison between both groups regarding mean degree of stenosis, mean ankle pressure and mean ankle brachial index overtime

Mean degree of stenosis	DCB cases N =11		PTA cases N =14		P
	mean	SD	mean	SD	
Follow up duplex after 3 month	34%	7%	40%	5%	<0.004
Follow up duplex after 6 month	40%	5%	72%	7%	<0.001
Follow up duplex after 9 months	53.6%	4%	80.7%	8%	<0.001
Follow up after 1 year	60%	8%	85.2%	6%	0.007
Mean ankle pressure after 1m	99	16	74	28	0.01
Mean ankle pressure after 3m	80	17	60	25	0.004
Mean ankle pressure after 6m	70	5	48	8	0.001
Mean ankle pressure after 9m	65	5	40	6	0.005
Mean ankle pressure after 12m	55	7	35	6	0.01
Mean ABI pre-operative	0.41	0.1	0.43	0.1	0.6
Mean ABI immediate post-operative	0.83	0.10	0.7	0.1	0.003
Mean ABI after 3m	0.6	0.1	0.4	0.1	0.0001
Mean ABI after 6m	0.5	0.1	0.3	0.1	<0.001
Mean ABI after 9m	0.45	0.1	0.2	0.1	<0.001
Mean ABI after 12m	0.4	0.1	0.20	0.1	<0.001
Wound healing time (weeks)	4.6	1.14	6.1	1.95	0.03

Table (5): Preoperative and postoperative ankle pressure among both groups

parameter	DCB cases N =11	PTA cases N =14	p-value
	Mean $\pm$ SD	Mean $\pm$ SD	
Pre-operative ankle pressure	58.18 $\pm$ 17.2	60.7 $\pm$ 24.6	0.7
*** Post-operative ankle pressure	98.18 $\pm$ 17.8	77.1 $\pm$ 26.1	0.03
P1 value	<0.0002	<0.0001	