

Demographic data of participants

Participants No.	Age (year)	Medical working experience (months)	Sex (M/F)	Experience of CVC
1	28	10	M	NO
2	28	10	M	NO
3	28	11	M	NO
4	26	10	M	NO
5	30	11	M	NO
11	28	12	M	NO
12	27	1	M	NO
13	28	1	F	NO
14	26	1	M	NO
15	25	1	F	NO
16	28	2	F	NO
17	35	3	M	NO
18	26	2	M	NO
19	29	2	M	NO
21	24	2	F	NO
22	25	3	F	NO
23	24	3	F	NO
24	25	3	M	NO
25	25	4	M	NO
26	35	4	M	NO
27	26	4	F	NO
28	24	4	M	NO
29	26	4	F	NO
30	24	4	F	NO
31	25	4	M	NO
32	26	4	M	NO
33	24	5	M	NO
34	25	5	F	NO
35	24	5	F	NO
36	29	4	M	NO
37	26	5	M	NO
38	29	5	M	NO
39	25	5	F	NO
40	25	5	M	NO

Results (outcomes)

Participant No.	Procedure type	Posterior vessel wall injury	Arterial injury	Needle Passes (n)	Procedure duration (sec)												
1	C	Injury	NO	1	70	1	N	Injury	NO	1	35	1	S	No injury	NO	1	39
2	C	Injury	NO	1	25	2	N	Injury	NO	1	31	2	S	No injury	NO	1	31
3	C	No injury	NO	1	44	3	N	Injury	NO	2	26	3	S	No injury	NO	1	27
4	C	Injury	NO	1	32	4	N	No injury	NO	1	40	4	S	No injury	NO	1	28
5	C	No injury	NO	1	42	5	N	No injury	NO	1	31	5	S	No injury	NO	1	35
11	C	No injury	NO	1	25	11	N	No injury	NO	1	19	11	S	No injury	NO	1	22
12	C	No injury	NO	1	78	12	N	Injury	NO	1	41	12	S	No injury	NO	1	50
13	C	No injury	NO	1	28	13	N	No injury	NO	1	30	13	S	No injury	NO	1	30
14	C	Injury	NO	1	44	14	N	No injury	NO	1	26	14	S	No injury	NO	1	30
15	C	No injury	NO	1	58	15	N	No injury	NO	1	65	15	S	No injury	NO	1	41
16	C	Injury	NO	1	50	16	N	No injury	NO	1	49	16	S	No injury	NO	1	43
17	C	Injury	NO	1	128	17	N	Injury	NO	1	35	17	S	Injury	NO	1	53
18	C	Injury	NO	1	56	18	N	Injury	NO	1	36	18	S	No injury	NO	1	45
19	C	Injury	NO	1	65	19	N	No injury	NO	1	46	19	S	No injury	NO	1	45
21	C	No injury	NO	1	59	21	N	Injury	NO	1	71	21	S	No injury	NO	1	73
22	C	Injury	NO	1	52	22	N	Injury	NO	1	85	22	S	Injury	NO	1	95
23	C	No injury	NO	1	52	23	N	Injury	NO	1	42	23	S	Injury	NO	1	69
24	C	Injury	NO	1	39	24	N	Injury	NO	1	51	24	S	No injury	NO	1	47
25	C	No injury	NO	1	77	25	N	Injury	NO	1	52	25	S	No injury	NO	1	41
26	C	No injury	NO	1	61	26	N	No injury	NO	1	33	26	S	No injury	NO	1	96
27	C	No injury	NO	1	42	27	N	No injury	NO	1	35	27	S	No injury	NO	1	50
28	C	Injury	NO	1	43	28	N	Injury	NO	1	44	28	S	No injury	NO	1	38
29	C	Injury	NO	1	41	29	N	No injury	NO	1	43	29	S	No injury	NO	1	52
30	C	Injury	NO	1	42	30	N	No injury	NO	1	37	30	S	No injury	NO	1	56
31	C	Injury	NO	1	93	31	N	No injury	NO	1	47	31	S	No injury	NO	1	64
32	C	Injury	NO	1	85	32	N	No injury	NO	1	49	32	S	No injury	NO	1	76
33	C	Injury	NO	1	48	33	N	Injury	NO	1	41	33	S	No injury	NO	1	36
34	C	Injury	NO	1	65	34	N	Injury	NO	1	28	34	S	No injury	NO	1	36
35	C	No injury	NO	1	63	35	N	No injury	NO	1	38	35	S	No injury	NO	1	43
36	C	No injury	NO	1	66	36	N	No injury	NO	1	69	36	S	No injury	NO	1	69
37	C	No injury	NO	1	67	37	N	No injury	NO	1	46	37	S	No injury	NO	1	69
38	C	No injury	NO	1	76	38	N	No injury	NO	1	67	38	S	No injury	NO	1	42
39	C	No injury	NO	1	38	39	N	No injury	NO	1	29	39	S	No injury	NO	1	40
40	C	Injury	NO	1	58	40	N	No injury	NO	1	59	40	S	No injury	NO	1	54

Results (Questionnaire)

Participants No.	Comfort grading against Procedure C	Comfort grading against Procedure N	Comfort grading against Procedure S	Choice of preferred procedure
1	4	3	5	Procedure S
2	4	2	5	Procedure S
3	3	2	5	Procedure S
4	3	3	5	Procedure S
5	2	5	4	Procedure N
11	4	5	4	Procedure N
12	3	5	5	Procedure S
13	3	4	5	Procedure S
14	4	5	4	Procedure N
15	4	5	3	Procedure N
16	2	4	4	Procedure S
17	2	3	4	Procedure S
18	4	4	4	Procedure S
19	4	4	5	Procedure S
21	5	4	4	Procedure C
22	4	5	5	Procedure N
23	5	4	3	Procedure S
24	4	5	4	Procedure N
25	4	5	3	Procedure N
26	4	5	2	Procedure N
27	4	4	2	Procedure N
28	2	5	4	Procedure N
29	4	5	4	Procedure S
30	3	4	3	Procedure N
31	3	4	4	Procedure N
32	3	4	5	Procedure S
33	3	4	5	Procedure S
34	3	4	4	Procedure S
35	3	4	4	Procedure S
36	4	5	4	Procedure N
37	3	4	5	Procedure S
38	4	5	3	Procedure S
39	4	4	4	Procedure S
40	5	5	2	Procedure N