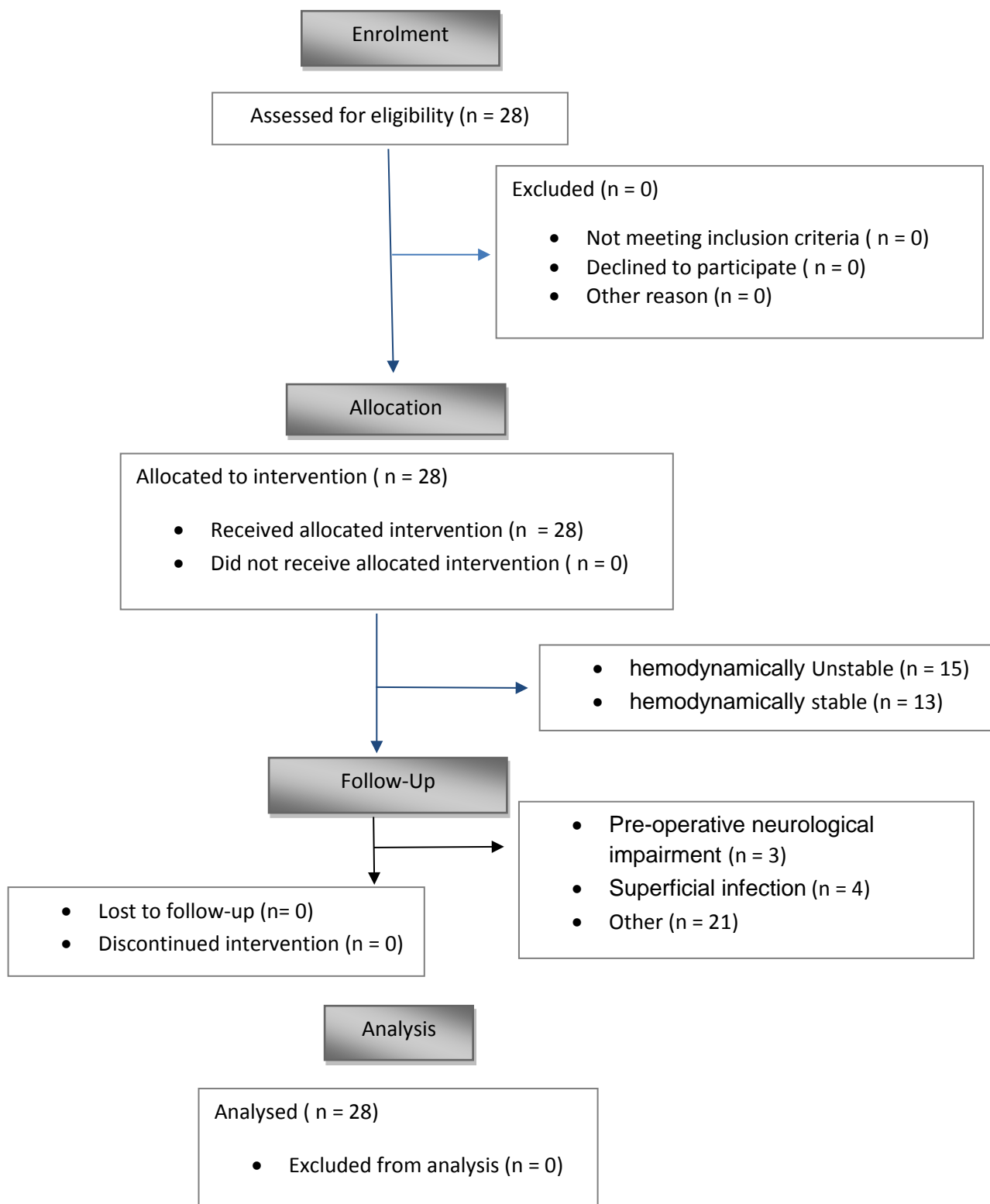


1. Participant Flow



2. Baseline Characteristics

Pre-Operation Patient Data							
Patient	Age	Sex	Cause	Pre-Operative	Fracture	Fracture Type	Associated Lesion
	(years)			Neurological Deficit	Zone		
1	32	male	car accident	no	II	c1	no
2	16	female	suicidal jumper	yes	II	c2	right femur fracture
3	41	female	car accident	no	I	c1	right pilon fracture
4	25	male	car accident	no	II	c2	right tibial fracture
5	38	male	suicidal jumper	no	II	c1	left pilon fracture
6	40	male	car accident	no	II	c2	no
7	26	female	car accident	no	II	c2	no
8	32	male	suicidal jumper	no	I	c2	left femur fracture
9	59	female	car accident	no	II	c2	no
10	28	female	suicidal jumper	yes	II	c2	right calcaneus fracture
11	33	male	car accident	no	II	c2	no
12	31	male	car accident	no	II	c1	left femur fracture
13	33	female	car accident	no	II	c2	no
14	29	female	car accident	no	II	c2	left tibial fracture
15	52	female	fall	no	I	c1	left femur fracture
16	28	female	car accident	no	II	c2	no
17	25	male	fall	yes	II	c2	right pilon fracture
18	42	male	car accident	no	II	c2	no
19	21	female	car accident	no	I	c1	right femur fracture
20	33	male	fall	no	II	c2	right calcaneus fracture
21	52	male	car accident	no	II	c2	right and left femur fracture
22	43	female	car accident	no	II	c2	no
23	37	male	car accident	no	II	c2	left femur fracture
24	26	male	fall	no	I	c1	left tibial fracture
25	31	male	car accident	no	I	c1	no
26	22	male	fall	no	II	c2	right tibial fracture
27	19	female	car accident	no	II	c1	no
28	52	male	car accident	no	I	c1	no

3. Outcome measures

Operation data				
Patient	Delay to Surgery	Duration of Surgery	Loss of Blood	Vessel and Nerve Injuries
	(days)	(minutes)	(ml)	
1	12	125	1021	No
2	1	240	2100	No
3	4	145	950	No
4	8	153	1230	No
5	10	180	1850	No
6	14	150	1390	No
7	17	195	2020	No
8	3	182	1500	No
9	7	210	1700	No
10	2	136	1327	No
11	5	203	1750	No
12	7	131	1265	No
13	1	165	1504	No
14	6	210	1980	No
15	10	230	2105	No
16	3	153	1065	No
17	8	185	1740	No
18	2	132	1548	No
19	4	172	1806	No
20	6	200	1850	No
21	3	139	1536	No
22	8	205	2106	No
23	9	210	2008	No
24	11	226	2305	No
25	5	140	1725	No
26	12	236	2320	No
27	7	118	1206	No
28	5	125	1106	No

No	The first admitting time (reduction and fixation)	The second admitting time (implant removal)	Implant removal (months)	The last follow-up Time	Follow-up (months)	Post-operative neurological deficit	Franck tenderness over distal screws	Skin lesion	Deep infection	Loss of reduction	Fracture heal	Implant loss
1	2010.12.8	2012.6.10	18	2013.1.7	25	no	no	no	no	no	yes	no
2	2010.10.7	2011.8.25	10	2013.6.5	32	no	no	no	no	no	yes	yes
3	2010.11.10	2012.2.16	15	2012.7.3	20	no	no	no	no	no	yes	no
4	2010.11.7	2012.1.10	14	2012.3.3	16	no	no	no	no	no	yes	no
5	2011.2.5	2012.2.8	12	2012.8.1	18	no	no	no	no	no	yes	no
6	2011.3.2	2012.3.18	13	2012.9.1	18	no	no	no	no	no	yes	no
7	2011.4.20	2012.4.25	12	2012.8.17	16	no	no	no	no	no	yes	no
8	2011.7.15	2012.12.17	17	2012.11.12	16	no	no	no	no	no	yes	no
9	2010.12.30	2011.12.26	12	2012.6.27	18	no	no	no	no	no	yes	no
10	2011.10.23	2012.12.20	14	2012.5.27	19	no	no	no	no	no	yes	no
11	2012.3.7	2013.8.10	17	2013.7.10	16	no	no	no	no	no	yes	no
12	2012.3.23	2013.6.20	15	2013.7.20	16	no	no	no	no	no	yes	no
13	2012.7.13	2013.10.10	15	2013.11.10	16	no	no	no	no	no	yes	no
14	2012.10.28	2013.11.26	13	2014.6.1	20	no	no	no	no	no	yes	no
15	2012.10.12	2013.10.10	12	2014.4.3	18	no	no	no	no	no	yes	no
16	2014.8.2	2015.7.1	11	2015.12.10	16	no	yes	no	no	no	yes	no
17	2013.8.21	2014.9.20	13	2015.1.18	17	no	no	no	no	no	yes	no
18	2013.9.7	2014.9.10	12	2015.3.3	18	no	no	no	no	no	yes	no
19	2014.7.25	2015.11.29	16	2015.11.29	16	no	no	no	no	no	yes	no
20	2014.12.1	2016.4.3	16	2016.4.2	16	no	no	no	no	no	yes	no
21	2015.3.13	2016.2.11	11	2016.7.10	16	no	no	no	no	no	yes	no
22	2015.9.21	2016.7.18	10	2017.2.20	17	no	yes	no	no	no	yes	no
23	2015.12.5	2017.1.8	13	2017.8.2	20	no	no	no	no	no	yes	no
24	2015.12.3	2017.5.1	17	2017.4.2	16	no	no	no	no	no	yes	no
25	2016.1.2	2017.2.1	13	2017.5.5	16	no	no	no	no	no	yes	no
26	2016.3.19	2017.4.22	13	2017.7.22	16	no	no	no	no	no	yes	no
27	2016.5.8	2017.5.5	12	2017.12.26	20	no	no	no	no	no	yes	no
28	2016.7.1	2017.7.2	12	2017.12.30	18	no	no	no	no	no	yes	no

Post-Operation Patient Data

Number of patients	28
Follow-up (months)	20 (16-32)
Post-operative neurological deficit	0
Franck tenderness over distal screws	2
Skin lesion	0
Deep infection	0
Loss of reduction	0
Fracture heal	28
Implant loss	1
Implant removal (months)	13.5 (10.5–18.1)

4. Adverse Events

There were no adverse events associated with this trial