Supplementary Online Content

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This supplementary material has been provided by the authors to give readers additional information about their work.

eTable. Included Study Characteristics

Author	Type of Study	Total Sample Size	Incidence of Deep Infection	Incidence of Septic Arthritis	Fracture Location	Type of Hardware	Time to Infection
Steinberg, 2017[21]	Retrospective Chart Review	32	1	Not Reported	Distal Femur	Plate & Screws	Not Reported
Canadian Orthopaedic Trauma Society, 2016[22]	Randomized Controlled Trial	52	2	Not Reported	Distal Femur	Plate & Screws	Not Reported
Padha, 2016[23]	Prospective Trial	50	1	Not Reported	Distal Femur	Plate & Screws	Not Reported
Virk, 2016[24]	Prospective Trial	25	0	Not Reported	Distal Femur	Plate & Screws	Not Reported
Gill, 2017[25]	Randomized Controlled Trial	42	2	Not Reported	Distal Femur	Retrograde Nail, Plate & Screws	Not Reported
Kim, 2009[26]	Retrospective Chart Review	31	0	Not Reported	Distal Femur	Retrograde Nail	Not Reported
Kolb, 2008[27]	Retrospective Chart Review	31	1	Not Reported	Distal Femur	Plate & Screws	Not Reported
Rademakers, 2004[28]	Retrospective Chart Review	67	7	Not Reported	Distal Femur	Plate & Screws	Not Reported
Southeast Fracture Consortium, 2016[29]	Retrospective Chart Review	339	31	Not Reported	Distal Femur	Plate & Screws	Not Reported
Handolin, 2004[30]	Retrospective Chart Review	44	0	0	Distal Femur	Retrograde Nail	Not Reported
Gao, 2013[31]	Retrospective Chart Review	36	1	Not Reported	Distal Femur	Retrograde Nail, Plate & Screws	5 months
Schandelmaier, 1999[32]	Prospective Trial	29	3	Not Reported	Distal Femur	Plate & Screws	16 weeks, 7 months
Kayali, 2007[33]	Prospective Trial	27	2	Not Reported	Distal Femur	Plate & Screws	Not Reported
Kolb, 2009[34]	Retrospective Chart Review	41	2	Not Reported	Distal Femur	Plate & Screws	Not Reported

Kregor, 2004[35]	Retrospective Chart Review	103	3	Not Reported	Distal Femur	Plate & Screws	Within 4 weeks
Schutz, 2005[36]	Prospective Trial	62	2	Not Reported	Distal Femur	Plate & Screws	Not Reported
Ran, 2013[37]	Retrospective Chart Review	28	1	Not Reported	Distal Femur, Proximal Tibia	Plate & Screws	Not Reported
Parekh, 2008[38]	Retrospective Chart Review	47	8	Not Reported	Distal Femur, Proximal Tibia	Other	Not Reported
Liu, 2009[1]	Retrospective Chart Review	189	1	Not Reported	Distal Femur, Tibial Plateau, Proximal Tibia	Plate & Screws	Not Reported
Kadar, 2016[39]	Retrospective Chart Review	60	6	1	Patella	Other	Not Reported
Hoshino, 2013[5]	Retrospective Chart Review	448	16	Not Reported	Patella	Tension Band	Not Reported
Bostman, 1981[40]	Retrospective Chart Review	64	0	0	Patella	Tension Band	Not Reported
Smith, 1997[41]	Retrospective Chart Review	51	0	Not Reported	Patella	Tension Band	Not Reported
Hsu, 2017[42]	Retrospective Chart Review	170	4	Not Reported	Patella	Tension Band	Not Reported
Torchia, 1996[43]	Retrospective Chart Review	47	6	Not Reported	Patella	Tension Band, Other	Not Reported
Anand, 2007[44]	Retrospective Chart Review	32	2	Not Reported	Patella	Tension Band, Other	Not Reported
Wu, 2001[45]	Prospective Trial	68	0	Not Reported	Patella	Tension Band	Not Reported
Kadar, 2015[46]	Retrospective Chart Review	188	11	Not Reported	Patella	Tension Band, Other	Not Reported
Uvaraj, 2007[47]	Retrospective Chart Review	22	2	Not Reported	Patella	Tension Band	Not Reported

Wu, 2015[48]	Retrospective Chart Review	20	0	Not Reported	Proximal Tibia	Plate & Screws	Not Reported
Phisitkul, 2007[49]	Retrospective Chart Review	43	8	Not Reported	Proximal Tibia	Plate & Screws	3.4 months (Range 7-315 days)
Oh, 2006[50]	Retrospective Chart Review	211	0	Not Reported	Proximal Tibia	Plate & Screws	Not Reported
Zhang, 2015[51]	Prospective Trial	35	0	Not Reported	Proximal Tibia	Plate & Screws	Not Reported
Singh, 2015a[52]	Prospective Trial	20	0	Not Reported	Proximal Tibia	Other	Not Reported
Luo, 2006[53]	Prospective Trial	42	0	Not Reported	Proximal Tibia	Plate & Screws	Not Reported
Jockel, 2013[54]	Prospective Trial	86	2	Not Reported	Proximal Tibia	Plate & Screws	Not Reported
Kim, 2012[55]	Retrospective Chart Review	30	5	Not Reported	Proximal Tibia	Plate & Screws	Not Reported
Nikolaou, 2011[56]	Prospective Trial	55	2	2	Proximal Tibia	Plate & Screws	Not Reported
Parkkinin, 2016[57]	Retrospective Chart Review	170	34	Not Reported	Proximal Tibia	Plate & Screws	Not Reported
Egol, 2005[58]	Prospective Trial	57	3	1	Proximal Tibia	Plate & Screws, Other	3 months
Boldin, 2006[59]	Prospective Trial	26	0	Not Reported	Proximal Tibia	Plate & Screws	Not Reported
Cole, 2004[60]	Prospective Trial	77	2	Not Reported	Proximal Tibia	Plate & Screws	Not Reported
Jiang, 2008[61]	Prospective Trial	84	5	Not Reported	Tibial Plateau	Plate & Screws	Not Reported
Yao, 2015[62]	Randomized Controlled Trial	85	0	Not Reported	Tibial Plateau	Plate & Screws	Not Reported
Gross, 2017[63]	Retrospective Chart Review	40	0	0	Tibial Plateau	Plate & Screws	Not Reported

Basques, 2015[64]	Retrospective Chart Review	519	6	5	Tibial Plateau	Plate & Screws	16.1 days (+/- 8.9)
Yu, 2013[65]	Retrospective Chart Review	112	1	Not Reported	Tibial Plateau	Plate & Screws	Not Reported
Abghari, 2016[66]	Prospective Trial	77	1	Not Reported	Tibial Plateau	Plate & Screws	Not Reported
Chan, 2003[67]	Prospective Trial	18	0	Not Reported	Tibial Plateau	Plate & Screws	Not Reported
Ali, 2001[68]	Prospective Trial	20	0	0	Tibial Plateau	Plate & Screws	Not Reported
Stamer, 1994[69]	Retrospective Chart Review	23	3	Not Reported	Tibial Plateau	Plate & Screws	Not Reported
Ferreira, 2014[70]	Retrospective Chart Review	46	0	0	Tibial Plateau	Plate & Screws	Not Reported
Sun, 2015[71]	Prospective Trial	41	0	Not Reported	Tibial Plateau	Plate & Screws	Not Reported
Lee, 2014[72]	Retrospective Chart Review	45	3	Not Reported	Tibial Plateau	Plate & Screws	Not Reported
Chan, 2012[73]	Retrospective Chart Review	59	2	1	Tibial Plateau	Plate & Screws	Not Reported
Kugelman, 2017[74]	Prospective Trial	279	10	Not Reported	Tibial Plateau	Plate & Screws	Not Reported
Barei, 2004[75]	Retrospective Chart Review	83	7	3	Tibial Plateau	Plate & Screws	5 w/i 3 weeks, 1 at 8 weeks, 1 at 7 months
Khatri, 2016[76]	Retrospective Chart Review	62	5	Not Reported	Tibial Plateau	Plate & Screws	Not Reported
Ruffolo, 2015[77]	Retrospective Chart Review	140	33	7	Tibial Plateau	Plate & Screws	28 occured at less than 6 months, 5 occured at 6-46 months

Shah, 2014[78]	Retrospective Chart Review	187	25	Not Reported	Tibial Plateau	Plate & Screws	Not Reported
Haller, 2016[79]	Retrospective Chart Review	159	11	Not Reported	Tibial Plateau	Plate & Screws	Not Reported
Ozkaya, 2015[80]	Retrospective Chart Review	108	1	Not Reported	Tibial Plateau	Plate & Screws	4 months
Shah, 2007[81]	Retrospective Chart Review	29	4	Not Reported	Tibial Plateau	Plate & Screws	16 days - 3.5 months
Chen, 2018[82]	Prospective Trial	240	0	Not Reported	Tibial Plateau	Plate & Screws	Not Reported
Marsh, 1995[83]	Retrospective Chart Review	21	2	2	Tibial Plateau	Plate & Screws	3 weeks
Tao, 2017[84]	Retrospective Chart Review	34	0	Not Reported	Tibial Plateau	Plate & Screws	Not Reported
Stannard, 2003[85]	Prospective Trial	35	2	Not Reported	Tibial Plateau	Plate & Screws	Not Reported
Berg, 2017[86]	Retrospective Chart Review	148	6	Not Reported	Tibial Plateau	Plate & Screws	Not Reported
Prasad, 2013[87]	Retrospective Chart Review	40	0	Not Reported	Tibial Plateau	Plate & Screws	Not Reported
Yao, 2014[88]	Retrospective Chart Review	74	0	Not Reported	Tibial Plateau	Plate & Screws	Not Reported
Barei, 2006[89]	Retrospective Chart Review	41	2	2	Tibial Plateau	Plate & Screws	Not Reported
Babis, 2011[90]	Retrospective Chart Review	33	1	1	Tibial Plateau	Plate & Screws	Not Reported
Keightley, 2015[91]	Prospective Trial	105	0	Not Reported	Tibial Plateau	Plate & Screws	Not Reported
Ma, 2018[92]	Retrospective Chart Review	676	17	Not Reported	Tibial Plateau	Plate & Screws	9 days
Zhu, 2017[93]	Prospective Trial	235	5	Not Reported	Tibial Plateau	Plate & Screws	median of 6 days
Laible, 2012[94]	Retrospective Chart Review	79	6	Not Reported	Tibial Plateau	Plate & Screws	Not Reported

Meena, 2015[95]	Randomized Controlled Trial	44	1	Not Reported	Tibial Plateau	Plate & Screws, Suprapatellar Nail	Not Reported
Borade, 2017[96]	Retrospective Chart Review	81	4	Not Reported	Tibial Plateau	Plate & Screws	Not Reported
Maroto, 2013[97]	Retrospective Chart Review	85	11	Not Reported	Tibial Plateau	Plate & Screws	Not Reported
Jansen, 2013[98]	Prospective Trial	22	2	Not Reported	Tibial Plateau	Plate & Screws	Not Reported
Van Dreumel, 2015[99]	Retrospective Chart Review	71	1	Not Reported	Tibial Plateau	Plate & Screws	Not Reported
Giannetti, 2017[100]	Prospective Trial	40	0	Not Reported	Tibial Plateau	Plate & Screws	Not Reported
Ariffin, 2011[101]	Prospective Trial	31	1	1	Tibial Plateau	Other	2 weeks
Zhai, 2014[102]	Retrospective Chart Review	29	1	Not Reported	Tibial Plateau	Plate & Screws	Not Reported
Rademakers, 2007[103]	Retrospective Chart Review	202	11	Not Reported	Tibial Plateau	Plate & Screws	Within 2 weeks
Su, 2004[104]	Retrospective Chart Review	38	1	Not Reported	Tibial Plateau	Plate & Screws	Not Reported
Giordano, 2017[105]	Retrospective Chart Review	30	1	Not Reported	Tibial Plateau	Plate & Screws	Not Reported
Ali, 2013[106]	Retrospective Chart Review	25	1	Not Reported	Tibial Plateau	Plate & Screws	Not Reported
Colman, 2013[107]	Retrospective Chart Review	309	24	Not Reported	Tibial Plateau	Plate & Screws	Not Reported
Urruela, 2013[108]	Prospective Trial	96	2	Not Reported	Tibial Plateau	Plate & Screws	Not Reported
Conserva, 2015[109]	Retrospective Chart Review	79	6	Not Reported	Tibial Plateau	Plate & Screws	Not Reported
Momaya, 2016[110]	Retrospective Chart Review	532	59	Not Reported	Tibial Plateau	Plate & Screws	Not Reported

Morris, 2013[2]	Retrospective Chart Review	302	43	Not Reported	Tibial Plateau	Plate & Screws	Not Reported
Bertrand, 2017[111]	Retrospective Chart Review	93	10	Not Reported	Tibial Plateau	Plate & Screws, Other	Not Reported
Gosling, 2005[112]	Prospective Trial	62	1	Not Reported	Tibial Plateau	Plate & Screws	Not Reported
Kataria, 2007[113]	Retrospective Case Series	22	0	Not Reported	Tibial Plateau	Other	Not Reported
Bagherifard, 2016[114]	Prospective Trial	32	1	Not Reported	Tibial Plateau	Plate & Screws	Not Reported
Lin, 2014[115]	Retrospective Chart Review	256	16	Not Reported	Tibial Plateau	Plate & Screws	Within 4 weeks
Dubina, 2017[116]	Retrospective Chart Review	703	69	Not Reported	Tibial Plateau	Plate & Screws	Not Reported
Faldini, 2005[117]	Retrospective Chart Review	32	0	Not Reported	Tibial Plateau	Other	Not Reported
Stannard, 2004[118]	Prospective Trial	39	0	Not Reported	Tibial Plateau	Plate & Screws	Not Reported
Ahearn, 2014[119]	Retrospective Chart Review	55	1	Not Reported	Tibial Plateau	Plate & Screws	Not Reported
Bobic, 1993[120]	Retrospective Case Series	31	1	1	Tibial Plateau	Plate & Screws	Not Reported
Russell, 2009[121]	Retrospective Chart Review	60	0	Not Reported	Tibial Plateau	Plate & Screws	Not Reported
Lee, 2007[122]	Retrospective Chart Review	35	2	Not Reported	Tibial Plateau	Plate & Screws	Not Reported
Manidakis, 2010[123]	Retrospective Chart Review	125	12	8	Tibial Plateau	Plate & Screws	Not Reported
Biggi, 2010[124]	Retrospective Chart Review	58	1	Not Reported	Tibial Plateau	Plate & Screws	Not Reported
Zura, 2010[125]	Retrospective Chart Review	30	5	Not Reported	Tibial Plateau	Plate & Screws	7 weeks

Tang, 2012[126]	Retrospective Chart Review	42	0	Not Reported	Tibial Plateau	Plate & Screws	Not Reported
Kumar, 2000[127]	Retrospective Chart Review	57	4	2	Tibial Plateau	Other	Not Reported
Egol, 2004[128]	Retrospective Chart Review	74	2	1	Tibial Plateau	Plate & Screws	Not Reported
Dendrinos, 1996[129]	Prospective Trial	24	0	Not Reported	Tibial Plateau	Plate & Screws	Not Reported
Gaunder, 2018[130]	Retrospective Chart Review	102	12	Not Reported	Tibial Plateau	Plate & Screws	Not Reported
Yoon, 2015[131]	Retrospective Chart Review	27	2	Not Reported	Tibial Plateau, Proximal Tibia		Not Reported
Iliopoulos, 2017[132]	Retrospective Chart Review	70	0	Not Reported	Tibial Plateau, Proximal Tibia	Plate & Screws	Not Reported
Singh, 2015b[133]	Retrospective Chart Review	93	15	Not Reported	Tibial Plateau, Proximal Tibia	Plate & Screws	Not Reported
Lovisseti, 2018[134]	Retrospective Chart Review	20	1	Not Reported	Tibial Plateau, Proximal Tibia	Other	Not Reported

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