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Dept. of Orthopedic Surgery
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Education	UNIVERSITY of ULSAN Master of Medicine Orthopedic Surgery, Medicine , February 2009. • Thesis Advisor: Prof. Jae Suk, Chang • Thesis: Bone Microarchitecture affecting bone strength in Osteoporotic Hip Fractures • Academic emphasis on Histomorphometry, Microarchitecture, Osteoporosis, MicroCT, Bone strength Orthopedic Surgery, Medicine , February 2005. • Thesis Advisor: Prof. Jae Suk, Chang • Thesis: 3 dimensional computed tomographic findings in adult dysplastic hip • Academic emphasis on dysplastic hip, acetabular retroversion, computed tomography.	Seoul, Korea
	UNIVERSITY of ULSAN Doctor of Medicine Medicine , February 2000.	Seoul, Korea
Experience		
<i>3/2000 – 2/2001</i>	Asan Medical center Internship	Seoul, Korea
<i>3/2001 – 2/2005</i>	Asan Medical center Residency Department of Orthopedic Surgery	Seoul, Korea
<i>3/2005 – 4/2008</i>	Army Hospital Army Surgeon	Korea
<i>5/2008 – 2/2009</i>	Asan Medical center Fellowship Hip, Osteoporosis Supervisor: Prof. Jae Suk, Chang	Seoul, Korea
<i>3/2009 – 2/2010</i>	Asan Medical center Fellowship Trauma • Supervisor: Prof. Jung Jae, Kim	Seoul, Korea
<i>10/2013 – 12/2014</i>	Denver Health Medical Center Visiting Scholar & Research Fellow	Denver, CO, USA
<i>3/2010 – 2/2018</i>	Inje University, Haeundae Paik Hospital Assistant Professor, Associate Professor	Busan, Korea
<i>3/2018 –</i>	Asan Medical center, University of Ulsan Associate Professor	Seoul, Korea
<i>9/2022 –</i>	Asan Medical center, University of Ulsan Professor Vice Chief information officer, Asan Medical Center Director of ‘the medical device training and education center’ Principle investigator of “Government-Supported Clinical Validation Study of Medical Artificial Intelligence Using Real-World Data”	Seoul, Korea

Members

- Member of the Korean Orthopaedic association
- Member of the Korean hip society
 - Secretary of international scientific committee & Member of the Korean fracture society
- Deputy editor of the journal of musculoskeletal trauma
- Member of the Korean society of bone metabolism
- Member of the Korean society of traumatology
- Member of the American Society for Bone and Mineral Research (ASBMR)
- Member of the International Society of Orthopaedic Surgery and Traumatology (SICOT)
- National faculty of AOTrauma Korea
- Research officer of AOTrauma Korea (2018-2021)
- Education officer of AOTrauma Korea (2021-2024)
- Chairperson of AOTrauma Korea (2024-)
- Secretary General of Asia Pacific Trauma Society (APTS) 2023~

Certificate

- Certificate; Clinical Densitometrist(CCD) from ISCD(The International Society For Clinical Densitometry)
- Certificate ; R Adams Cowley Shock trauma Center international trauma program(2010.3.19-4.2)
- AO fellowship : BG Unfallklinik, Ludwigshafen,, Germany (2010.12~2011.1)
- Visiting scholarship: Denver Health Medical Center, Colorado, USA (2013.10.~2014.12.)
- Travelling fellowship of Japanese society of fracture repair: Kitasato University & Teiko University (2017.7)

International award

- 3rd AOTrauma Asia Pacific Scientific Congress best Paper Award (2016)
- ASBMR Young Investigator Travel Grant Award (2017)
- 4th AOTrauma Asia Pacific Scientific Congress best case Award (2019)

Domestic award

- 2020 Korean Fracture Society Annual Congress Best paper award
- 2018 Korean Fracture Society Best paper award
- 2017 Korean Society for Bone and Mineral Research Young investigator research award
- 2017 Korean Orthopedic Association Annual Congress Best video presentation award
- 2017 Korean Fracture Society Annual Congress Best paper award
- 2017 Korean Fracture Society Best Poster of the KOFS congress
- 2016 Korean Fracture Society Best paper award
- 2014 Korean Fracture Society Best paper award
- 2013 Korean Fracture Society Annual Congress Best presentation award
- 2012 Korean Society for Bone and Mineral Research Best presentation award
- 2011 Korean Fracture Society Annual Congress Best presentation award

Publication

1. Joosuk Ahn, Chul-Ho Kim & Ji Wan Kim. Comparison of bone turnover suppression in atypical femoral fractures and osteoporotic hip fractures. *ci Rep* 14, 19974 (2024). <https://doi.org/10.1038/s41598-024-71024-y>
2. Dong Yun Lee, Jungsu S. Oh, Ji Wan Kim, Seung Hun Lee, Beom-Jun Kim, Jung-Min Koh, Jae Seung Kim & Jin-Sook Ryu. Imaging bone turnover assessment through volumetric density-adjusted standardized uptake value using quantitative bone SPECT/CT in osteoporosis. *EJNMMI Res* 14, 75 (2024). <https://doi.org/10.1186/s13550-024-01137-y>.
3. Chul-Ho Kim, Ji Wan Kim. A recent update on the fixation techniques for femoral neck fractures: A narrative review. *J Clin Orthop Trauma*. 2024 Jul 17;54:102497. doi: 10.1016/j.jcot.2024.102497. eCollection 2024 Jul.
4. Yeonjoo Choi, Sangwon Han, Yun Jae Kim, Ji Wan Kim, Chul-Ho Kim. Hearing impairment increases the risk of hip fracture-related mortality and recurrent hip fractures: A propensity score matching analysis. *Arch Gerontol Geriatr*. 2024 Dec;127:105548. doi: 10.1016/j.archger.2024.105548. Epub 2024 Jun 27.
5. Woorim Choi, Chul-Ho Kim, Hyein Yoo, Hee Rim Yun, Da-Wit Kim, Ji Wan Kim*. Development and validation of a reliable method for automated measurements of psoas muscle volume in CT scans using deep learning-based segmentation: a cross-sectional study. *BMJ Open*. 2024; 14(5): e079417.
6. Dong-Young Je, Ji Wan Kim, Sung-Jae Lee, Chul-Ho Kim. What is the Optimal Nail Length to Treat Osteoporotic Subtrochanteric Fractures? A Finite Element Analysis. *Clin Orthop Surg*. 2024 Jun; 16(3): 363–373.
7. Eic Ju Lim, Ji Wan Kim, Chang Hyun Doh, Chul-ho Kim. Clinical Outcomes Following Incomplete Arthroscopic Iliotibial Band Release for External Snapping Hip Syndrome: An Observational Study. *Orthop Surg*. 2024 Mar 31. doi: 10.1111/os.14050. Online ahead of print.
8. Chul-Ho Kim, Kyu-pyo Kim, Ji Wan Kim*. Comparison of surgical outcomes for hip fracture between older patients with and without cancer: a propensity score matching analysis. *Scientific Reports* | (2024) 14:5406 | <https://doi.org/10.1038/s41598-024-54932-x>
9. Incheol Kook, Chang-Wug Oh, Oog-Jin Shon, Joon-Woo Kim, Ji-Wan Kim, Kyu Tae Hwang, Ki-Chul Park. Comparing outcomes of plate augmentation, nail exchange, and nail exchange with plate augmentation in the treatment of atrophic femoral shaft nonunion after intramedullary nailing: a multicenter retrospective study. *Archives of Orthopaedic and Trauma Surgery*. 2024 Mar;144(3):1259-1268.
10. Eic Ju Lim, Hyun-Chul Shon, Jae-Young Yang, Joosuk Ahn, Jung Jae Kim, Ji Wan Kim*. Surgical outcomes of acetabular fracture of elderly patients with superomedial dome impaction. *Sci Rep*. 2023 Nov 4;13(1):19091. doi: 10.1038/s41598-023-46652-5.
11. Jae Suk Chang, Dong Hwan Lee, Min Wook Kang, Ji Wan Kim and Chul-Ho Kim. Effectiveness of Intravenous Non-Opioid Analgesics for Postoperative Pain Management of in Patients Undergoing Hip Surgery: A Systematic Review and Meta-Analysis. *Medicina* 2023, 59, 1904. <https://doi.org/10.3390/medicina59111904>
12. Bomi Yang, Jaeho Hyun, Jingyu Kim, Jihoon Kweon, Jaesoon Choi, Youngjin Moon & Ji Wan Kim. Design and Feasibility Test of Motorized Hand-Held Devices for Intra-compartmental Pressure Monitoring. *International Journal of Precision Engineering and Manufacturing* <https://doi.org/10.1007/s12541-023-00910-8>
13. Chul-Ho Kim, Jae Suk Chang, Yaeji Lim, Dongkyung Lim, Ji Wan Kim*. Safety of urgent surgery for the patients with proximal femur fracture treated with platelet aggregation inhibitors: a propensity-score matching analysis. *Eur J Trauma Emerg Surg*. 2023 Sep 28. doi: 10.1007/s00068-023-02368-9.
14. Jae Suk Chang, Min Wook Kang, Dong Hwan Lee, Ji Wan Kim, Chul-Ho Kim Comparing the Anterior-Based Muscle-Sparing Approach with the Direct Anterior Approach in Hip Arthroplasty: A Systematic Review and Pairwise Meta-Analysis. *Medicina (Kaunas)*. 2023 Jul 29;59(8):1390. doi: 10.3390/medicina59081390.
15. Jung-Wee Park, Yong-Chan Ha, Jin-Woo Kim, Tae-Young Kim, Ji Wan Kim, Seung-Hoon Baek, Young-Kyun Lee and Kyung-Hoi Koo. The Korean hip fracture registry study. *BMC Musculoskeletal Disorders* (2023) 24:449

16. Eic Ju Lim, Ji Wan Kim, Jeuk Lee and Chul-Ho Kim. Is Nail–Canal Diameter Discordance a Risk Factor for the Excessive Sliding of Cephalomedullary Nails in Geriatric Intertrochanteric Fracture Surgery. *Medicina* 2023, 59, 1035. <https://doi.org/10.3390/medicina59061035>
17. Han Soul Kim, Ji Wan Kim, Jae Suk Chang and Chul-Ho Kim. Revision Total Hip Arthroplasty Utilizing an Acetabular Reinforcement Ring with a Metal Augment: A Minimum Eight-Year Follow-Up Study. *Medicina* 2023, 59, 1036. <https://doi.org/10.3390/medicina59061036>
18. Kyu Tae Hwang, Incheol Kook, Jae-Ho Lee, Chang-Wug Oh, Oog-Jin Sohn, Ji Wan Kim, Ki-Chul Park. Outcomes of Angular Stable Locking System in Femoral Diaphyseal Fractures of Elderly Patients: A Multicenter Comparative Study. *Clin Orthop Surg.* 2023 Jun;15(3):349-357. doi: 10.4055/cios22215
19. Chang-Wug Oh, Kyeong-Hyeon Park, Joon-Woo Kim, Dong-Hyun Kim, Il Seo, Jin-Han Lee, Ji-Wan Kim and Sung-Hyuk Yoon. Minimally Invasive Derotational Osteotomy of Long Bones: Smartphone Application Used to Improve the Accuracy of Correction. *J. Clin. Med.* 2023, 12, 1335. <https://doi.org/10.3390/jcm12041335>
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21. J Ahn, JW Kim*. External iliac artery injury with posterior pelvic ring injury: two case reports. *Journal of Trauma and Injury* 2022; *jti.2022.0046*. DOI: <https://doi.org/10.20408/jti.2022.0046>
22. J Han, CH Kim, JW Kim*. Handgrip strength effectiveness and optimal measurement timing for predicting functional outcomes of a geriatric hip fracture. *Scientific Reports* 2022 12(1):20600 DOI: 10.1038/s41598-022-25177-3
23. JH Seo, BS Lee, JM Kim, JJ Kim, JW Kim*. Outcomes of dual plating for unstable distal femoral fractures: a subgroup comparison between periprosthetic and non-periprosthetic fractures. *Int Orthop.* 2022 Nov;46(11):2685-2692. doi: 10.1007/s00264-022-05543-6.
24. Christian Fang, Leyi Cai, Gabriel Chu, Rahat Jarayabhand, Ji Wan Kim, Gavin O'Neill. 3D printing in fracture treatment : Current practice and best practice consensus. *Unfallchirurgie (Heidelb).* 2022 Jul 11. doi: 10.1007/s00113-022-01159-y. Online ahead of print.
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26. Ahn J, Chang JS, Kim JW*. Postoperative Pneumonia and Aspiration Pneumonia Following Elderly Hip Fractures. *J Nutr Health Aging.* 2022;26(7):732-738. doi: 10.1007/s12603-022-1821-9. CH Kim,
27. CH Kim, JJ Kim, JW Kim*. Percutaneous posterior transiliac plate versus iliosacral screw fixation for posterior fixation of Tile C-type pelvic fractures: a retrospective comparative study. *BMC Musculoskelet Disord.* 2022 Jun 16;23(1):581. doi: 10.1186/s12891-022-05536-x.
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29. Jun-Ki Moon, Ho Lee, Pil Whan Yoon, Ki-Chul Park, Jae Suk Chang, Ji Wan Kim*. Total hip arthroplasty for failed acetabular fracture: a double-center comparative study on failed proximal femur fracture. *Eur J Trauma Emerg Surg.* 2022 Jun;48(3):2319-2329. doi: 10.1007/s00068-021-01744-7.
30. Jaehyung Lee, Ho Seong Lee, Ji Wan Kim, Bum-Sik Lee, Youngrak Choi. Radiographic parameters of the normal ankle syndesmosis: Comparison between hindfoot alignment view and anteroposterior view. *J Int Med Res.* 2022 May;50(5):3000605221098862. doi: 10.1177/03000605221098862.
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32. Hwang, D., Kim, CH., Lee, Y. Kim JW*. Association of atypical femoral fracture location and lower limb mechanical axis: a computed tomography-based finite element analysis. *Osteoporos Int* (2022). <https://doi.org/10.1007/s00198-021-06173-1>
33. Chul-Ho Kim, Eic Ju Lim, Siyeon Kim, Ji Wan Kim*. The effect of antifibrinolytic agents in

periacetabular osteotomy: A systematic review and meta-analysis, *Orthopaedics & Traumatology: Surgery & Research*, 2022, 103271, ISSN 1877-0568, <https://doi.org/10.1016/j.otsr.2022.103271>.

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35. Chang-Wug Oh, Joon-Woo Kim, Ki Chul Park, Theerachai Apivatthakakul, Cong-Feng Luo, Merng Koon Wong, Frankie KL. Leung, Ji Wan Kim*. Clinical outcomes and affecting factors of ipsilateral femoral neck and shaft fractures - Multination, multicenter analysis. *Journal of Orthopaedic Science*, 2022, ISSN 0949-2658, <https://doi.org/10.1016/j.jos.2021.12.021>.
36. Ki Chul Park, Chang-Wug Oh, Joon-Woo Kim, Hyung Keun Oh, Hyun Chul Shon, Jung Jae Kim, Ji Wan Kim*. Acetabular fractures in elderly, *Journal of Orthopaedic Science*, 2021, ISSN 0949-2658, <https://doi.org/10.1016/j.jos.2021.12.004>
37. Ik Jae Jung, Ji Wan Kim*. Differences in femur geometry and bone markers in atypical femur fractures and the general population. *Sci Rep* **11**, 24149 (2021). <https://doi.org/10.1038/s41598-021-03603-2>
38. Kim, Chul-Ho; Kim, Dong Hwan; Kang, Han-Vit; Kim, Won Jun; Shin, Minkyu MD; Kim, Ji Wan* Factors affecting healing following percutaneous intramedullary fixation of metacarpal fractures, *Medicine*: December 17, 2021 - Volume 100 - Issue 50 - p e27968 doi: 10.1097/MD.00000000000027968
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40. Eic Ju Lim, Won Uk Koh, Hyungtae Kim, Ha-Jung Kim, Hyun-Chul Shon, Ji Wan Kim*. Regional Nerve Block Decreases the Incidence of Postoperative Delirium in Elderly Hip Fracture. *J Clin Med.* 2021 Aug 15;10(16):3586. doi: 10.3390/jcm10163586.
41. Ji-Hoon Sim, Soo-Ho Lee, Ji-Wan Kim, Won-Uk Koh, Hyung-Tae Kim, Young-Jin Ro, Ha-Jung Kim. Low Psoas Lumbar Vertebral Index Is Associated with Mortality after Hip Fracture Surgery in Elderly Patients: A Retrospective Analysis. *J Pers Med.* 2021 Jul 16;11(7):673. doi: 10.3390/jpm11070673.
42. Soo-Young Jeong, Kyu-Tae Hwang, Chang-Wug Oh, Joon-Woo Kim³, Oog Jin Sohn, Ji Wan Kim, Young-Ho Cho, Ki Chul Park. Mid-term outcomes after the surgical treatment of atypical femoral fractures : minimum three-year follow-up. *Bone Joint J.* 2021 Nov;103-B(11):1648-1655. doi: 10.1302/0301-620X.103B11.BJJ-2021-0416.R1
43. Jin-Woo Kim, Kyung-Soon Park, Young-Kyun Lee, Ji Wan Kim, Yong-Chan Ha & Seung-Hoon Baek. Multiple screw fixation versus cementless bipolar hemiarthroplasty for femur neck fracture using a nationwide hip fracture registry. *Sci Rep* **11**, 21461 (2021). <https://doi.org/10.1038/s41598-021-01046-3>
44. Jae-Ang Sim, Shon Oog jin Shon, Yong Bum Joo, Hoon-Sang Sohn, Seong-Eun Byun, Ji Wan Kim*. Clinical outcomes of osteosynthesis of well-fixed periprosthetic proximal tibial fractures (Felix type 2A) after total knee arthroplasty. *July 2021. Injury.* DOI: 10.1016/j.injury.2021.06.022
45. Hyojune Kim, Do-Hoon Kim, Dong Min Kim, Erica Kholinne, Eui-Sup Lee, Wael Mohammed Alzahrani, Ji Wan Kim*, In-Ho Jeon, Kyoung Hwan Koh Do Nonsteroidal Anti-Inflammatory or COX-2 Inhibitor Drugs Increase the Nonunion or Delayed Union Rates After Fracture Surgery?: A Propensity-Score-Matched Study. *J Bone Joint Surg Am.* 2021 Jun 8. doi: 10.2106/JBJS.20.01663. Online ahead of print.
46. Eic Ju Lim, Jung Jae Kim, Keong-Hwan Kim, Ji Wan Kim*. Surgical outcomes of retrograde nailing enhanced with minimally invasive cerclage cable fixation for infra-isthmal femoral fracture. *J Orthop Sci.* 2021 May 20;S0949-2658(21)00132-9. doi: 10.1016/j.jos.2021.03.015. Online ahead of print.
47. Sang Pil So, Jae Youn Yoon, Ji Wan Kim*. Postoperative contact dermatitis caused by skin adhesives used in orthopedic surgery: Incidence, characteristics, and difference from surgical site infection. *Medicine (Baltimore).* 2021 May 21;100(20):e26053. doi: 10.1097/MD.00000000000026053.
48. Hyojune Kim, Myung Jin Shin, Erica Kholinne, Janghyeon Seo, Duckwoo Ahn, Ji Wan Kim, Kyoung Hwan Koh. How Many Proximal Screws Are Needed for a Stable Proximal Humerus Fracture Fixation? *Geriatr Orthop Surg Rehabil.* 2021 Feb 9;12:2151459321992744. doi: 10.1177/2151459321992744. eCollection 2021.
49. Jung, IJ; Choi, EJ; Lee, BG; Kim, JW*. Population-based, three-dimensional analysis of age- and sex-related femur shaft geometry differences. *Osteoporos Int.* 2021 Aug;32(8):1631-1638. doi:

10.1007/s00198-021-05841-6.

50. Oog Jin Shon, Jae youn Yoon, Ji Wan Kim*. Clinical outcomes of using contralateral-side laterally bent intramedullary nails in atypical femur fractures with femoral bowing 2021 Aug; 141 (8): 1291-1296 DOI: 10.1007/s00402-020-03524-1.
51. Jae-Ang Sim, Yong Bum Joo, Won CHul Choi, Soeng-Eun Byun, Young Gin Na, Oog Jin Shon, Ji Wan Kim*. Patellar fractures in elderly patients: a multicenter computed tomography-based analysis. July 2020. Archives of Orthopaedic and Trauma Surgery. 2021 Sep; 141 (9): 1439-1445. DOI: 10.1007/s00402-020-03526-z
52. Chul-Ho Kim, Ji Wan Kim*. Periacetabular osteotomy vs. total hip arthroplasty in young active patients with dysplastic hip: Systematic review and meta-analysis Orthopaedics & Traumatology: Surgery & Research 106 (2020) 1545–1551. <https://doi.org/10.1016/j.otsr.2020.08.012>
53. Jae youn Yoon, Ji Wan Kim*. Treatment of Proximal Femur Fracture with a Newly Designed Nail: Trochanteric Fixation Nail-Advanced (TFNA). J Korean Fract Soc 2020;33(4):189-195 <https://doi.org/10.12671/jkfs.2020.33.4.189>
54. Yoon-Bo Shim, Jae-A Park, Jin Hyun Nam, Sung-Hyun Hong, Ji Wan Kim, Jihae Jeong, Ju-Young Shin.. Incidence and risk factors of subsequent osteoporotic fracture: a nationwide cohort study in South Korea. Archives of Osteoporosis (2020) 15:180. <https://doi.org/10.1007/s11657-020-00852-y>
55. Jae youn Yoon, Shinseok Kim, Pil Whan Yoon, Jae Suk Chang, Ji Wan Kim*. Venous thromboembolism after delayed surgery for a hip fracture: A retrospective cohort study. Geriatr Gerontol Int. 2020 Oct. DOI: <https://doi.org/10.1111/ggi.14055>. [Epub ahead of print]
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57. Jae Hyeon Seo, Ni Na Kim, Ji Wan Kim*. Usefulness of Sonication in Implant-Related Infection. J Korean Fract Soc. 2020 Apr;33(2):81-86. Korean.
58. Eic Ju Lim, Jung Jae Kim, Ji Wan Kim, Keong-Hwan Kim. What characteristics indicate concomitant posterior pelvic injury in pubic ramus fractures in the elderly? Orthopaedics & Traumatology: Surgery & Research. 106 (2020) 849-853 <https://doi.org/10.1016/j.otsr.2020.01.005> .
59. Jun-Ki Moon, Jaehyung Lee, Pil Whan Yoon, Jae Suk Chang, Ji Wan Kim*. Efficacy of total hip arthroplasty after operatively treated acetabular fracture. Archives of Orthopaedic and Trauma Surgery Arch Orthop Trauma Surg (2020) 140:973-979 <https://doi.org/10.1007/s00402-020-03447-x>.
60. Sehan Park, Sang Won Moon, Jaehyung Lee, Ji Wan Kim*. Intramedullary tibia nailing with external fixation. European Journal of Trauma and Emergency Surgery. 2020 Mar 27. doi: 10.1007/s00068-020-01351-y. [Epub ahead of print]
61. Jae Suk Chang, Joo Ho Song, Ji Wan Kim, Hun-Kyu Shin, Hee-Jin Park, Yongun Cho, Ingyu Lee, Jai Hyung Park. Why do subchondral cysts occur at the medial aspect of the femoral head in hip dysplasia? HIP International. 2020 Mar 16:1120700020912169. doi: 10.1177/1120700020912169. [Epub ahead of print]
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63. Chul-Ho Kim, Ji Wan Kim*. Letter to the editor about the article “Different surgical outcomes in a patient with bilateral atypical femoral fracture related to bisphosphonate use with or without teriparatide treatment”. Osteoporosis International 2020 Jun;31(6):1177
64. Jae-Ho Lee, Ki-Chul Park, Seung-Jae Lim, Kyeu-Back Kwon, Ji Wan Kim. Surgical outcomes of simple distal femur fractures in elderly patients treated with the minimally invasive plate osteosynthesis technique: can percutaneous cerclage wiring reduce the fracture healing time? Archives of Orthopaedic and Trauma Surgery Archives of Orthopaedic and Trauma Surgery (2020) 140:1403–1412 <https://doi.org/10.1007/s00402-020-03385-8>.
65. Hyun Chul Shon, Jin-Young Bang, Yongkoo Lee, Kyoung Hwan Koh, Ji Wan Kim*. Optimal plate position in minimally invasive plate osteosynthesis for mid-shaft clavicle fractures: simulation

using 3D-printed models of actual clinical case. *European Journal of Trauma and Emergency Surgery* <https://doi.org/10.1007/s00068-020-01330-3>. [Epub ahead of print]

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67. Byun SE, Sim JA, Joo YB, Kim JW, Choi W, Na YG, Shon OJ. Changes in patellar fracture characteristics: A multicenter retrospective analysis of 1596 patellar fracture cases between 2003 and 2017. *Injury*. 2019 Oct 7. pii: S0020-1383(19)30597-2. doi: 10.1016/j.injury.2019.10.016. [Epub ahead of print]
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