

Curriculum Vitae

Name: Keerati Chareancholvanich

Nationality: Thai

Date of Birth: November 15, 1964

Present Post: Professor

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Education Qualification:

- 1983 – 1988
 - Doctor of Medicine degree (MD.)
 - Faculty of Medicine Siriraj Hospital Mahidol
 - University
 - Bangkok, Thailand
- 1988
 - Medical Science (Thailand)
- 1991 – 1992
 - First Year Resident of Department of Surgery
 - Certificate in Basic Science of Surgery
- 1992
 - Diploma in Clinical Sciences
- 1992 – 1994
 - Resident of department of Orthopaedic Surgery 1994
 - Diploma Thai Board of Orthopaedic Surgery
 - Medical Council of Thailand
- 1995
 - Diploma of Sport Medicine (FIMS)
- 1995 – 1997
 - Fellowship in Adult Reconstructive Surgery
 - Hennepin Medical Center, University of Minnesota Minnesota,
 - U.S.A.
- 1997
 - AO Fellowship in Pelvis and Hip Surgery
 - Inselspital Hospital, Bern, Switzerland

Practice:

1988 - 1991	Orthopaedic Practitioner Orthopaedic Department, Faculty of Medicine Chiang Mai University, Thailand
1994 - Present	Instructor in Orthopaedic Surgery Department of Orthopaedic Surgery Faculty of Medicine Siriraj Hospital Mahidol University Bangkok, Thailand

Academic Appointments:

- Attending Surgeon, Department of Orthopaedic Surgery
Faculty of Medicine Siriraj Hospital, Mahidol University, Bangkok, Thailand July 14, 1994.
- Clinical Instructor, Orthopaedic Oncology
Faculty of Medicine Siriraj Hospital, Mahidol University, Bangkok, Thailand December 25, 1996.
- Assistant Professor, Department of Orthopaedic Surgery
Faculty of Medicine Siriraj Hospital, Mahidol University, Bangkok, Thailand November 15, 2002.
- Associate Professor, Department of Orthopaedic Surgery
Faculty of Medicine Siriraj Hospital, Mahidol University, Bangkok, Thailand February 2, 2006.
- Professor, Department of Orthopaedic Surgery
Faculty of Medicine Siriraj Hospital, Mahidol University, Bangkok, Thailand October 28, 2016 - Present

Honors:

1. Second winner resident paper contest in Royal College of Surgery Thailand, Congress 1994.
2. Finalist new investigator recognition award in Orthopaedic Research Society Meeting, San Francisco 1997.
3. Best Research Award from the Royal College of Orthopedic Surgeons of Thailand 2012, 2013 and 2015.
4. Siriraj Award from Siriraj Hospital, Mahidol University 2014.
5. Alumni Awards from Siriraj Hospital, Mahidol University 2014.
6. Siriraj Book Awards from Siriraj Hospital, Mahidol University 2016.
7. Esteemed Doctor Award 2016 from Siriraj Piyamaharajkarun Hospital
8. Service Minded Doctor Award 2017 from Siriraj Piyamaharajkarun Hospital
9. Alumni Awards from the Royal College of Orthopedic Surgeons of Thailand 2018.
10. Alumni Awards from Faculty of Graduate Studies, Mahidol University 2018.

Publication:

1. Waikakul W, Penkitti P, Charoencholvanich K. Oral antimicrobials in compound fracture of Thailand: Comparison of dicloxacillin and of ofloxacin J Med Assoc Thai 1996.
2. Chareancholvanich K, Becker DA, Gustilo RB. Treatment of congenital dislocated hip by arthroplasty with femoral shortening. Clin Orthop Relat Res 1999;360:127-35.
3. Chareancholvanich K, Tanchuling A, Seki T, Gustilo RB. Cementless acetabular revision for aseptic failure of cemented hip arthroplasty. Clin Orthop Relat Res 1999;361:140-9.
4. Harnrongroj T, Asavamongkolkul A, Charoencholvanich K. Reconstruction of the pelvic brim and its role in the reduction accuracy of displaced T-shape of acetabular fracture. J Med Assoc Thai 2000;83(5):483-93.
5. Chareancholvanich K, Bourgeault CA, Schmidt AH, Gustilo RB, Lew WD. In vitro stability of cemented and cementless femoral stems with compaction. Clin Orthop Relat Res 2002;394:290-302.
6. Kold S, Bechtold JE, Ding M, Chareancholvanich K, Rahbek O, Soballe K. Compacted cancellous bone has a spring-back effect. Acta Orthop Scand 2003;74(5):591-5.
7. Charoencholvanich K, Siri wattanasakul P. Patellar thickness in patients undergoing total knee arthroplasty. Thai J Orthop Surg 2004; 29(2): 73-6.
8. Charoencholvanich K, Kruwanont W, Piyawinichwong S, Harnroongroj T. Subchondral plate thickness of the femoral head and the talar dome. Thai J Orthop Surg 2004; 29(2): 77-80.
9. Charoencholvanich K, Pongcharoen B. Oxford knee score and SF-36: Translation & Reliability for use with total knee arthroscopy patients in Thailand. J Med Assoc Thai 2005; 88(9): 1194-1202.
10. Piyakunmala K, Sangkomkamhang T, Chareonchonvanitch K. 'Rail road' proximal femoral osteotomy: a new technique to remove well-fixed femoral stem or cement mantle in revision total hip arthroplasty. J Med Assoc Thai 2009;92 Suppl 6:S152-5.
11. Piyakunmala K, Sangkomkamhang T, Chareonchonvanitch K. Is magnetic resonance imaging necessary for normal plain radiography evaluation of contralateral non-traumatic asymptomatic femoral head in high osteonecrosis risk patient. J Med Assoc Thai 2009;(92Suppl6):S147-51.
12. Tangsataphorn S, Chareancholvanich K. Paradoxical embolism in bilateral total knee arthroplasty: A case report. J Med Assoc Thai 2009;92 (10):1387-92.
13. Sutipornpalangkul W, Morales NP, Charoencholvanich K, Harnroongroj T. Lipid peroxidation, glutathione, vitamin E, and antioxidant enzymes in synovial fluid from patients with osteoarthritis. International Journal of Rheumatic Diseases 2009;12(4):324-28.
14. Charoencholvanich K, Siri wattanasakul P. Tranexamic acid reduces blood loss and blood transfusion after TKA: A prospective randomized controlled trial. Clin Orthop and Relat Res 2011;469(10):2874-80.
15. Pikulkaew T, Pornrattanamaneewong C, Chareancholvanich K. Anatomical landmark to locate the ankle center for determination of the mechanical axis of the lower extremity in Thai subjects. J Med Assoc Thai 2012;(95Suppl9):S1-5.

16. Santanapipatkul P, [Chareancholvanich K](#). Results for the mobile-bearing rotating platform knee: minimum 10-year follow-up. *J Med Assoc Thai* 2012;(95Suppl9):S36-40.
17. Pornrattanamaneeewong C, Harnroongroj T, [Chareancholvanich K](#). Loss of correction after medial opening wedge high tibial osteotomy: a comparison of locking plates without bone grafts and non-locking compression plates with bone grafts. *J Med Assoc Thai* 2012;(95Suppl9):S21-8.
18. [Chareancholvanich K](#), Pikulkaew T, Pornrattanamaneeewong C. Varus inclination of the tibial plateau in Thai adults: a concise radiographic evaluation. *J Med Assoc Thai* 2012;(95 Suppl 9):S41-6.
19. [Chareancholvanich K](#), Narkbunnam R. Novel method of measuring patellar height ratio using a distal femoral reference point. *International Orthopaedics* 2012;36(4):749-53.
20. Narkbunnam R, [Chareancholvanich K](#). Causes of failure in total knee arthroplasty. *J Med Assoc Thai* 2012;95(5):667-673.
21. [Chareancholvanich K](#), Udomkiat P, Waikakul S. A randomized control trial between fosfomycin and cefuroxime as the antibiotic prophylaxis in knee arthroplasty. *J Med Assoc Thai* 2012;(95Suppl9):S6-13.
22. Pornrattanamaneeewong C, Narkbunnam R, [Chareancholvanich K](#). Medial proximal tibial angle after medial opening wedge HTO: A retrospective diagnostic test study. *Indian J Orthop* 2012;46(5):525-30.
23. [Chareancholvanich K](#), Siri Wattanasakul P, Narkbunnam R, Pornrattanamaneeewong C. Temporary clamping of drain combined with tranexamic acid reduce blood loss after total knee arthroplasty: A prospective randomized controlled trial. *BMC Musculoskeletal Disorders* 2012;13: art. no.124.
24. Pornrattanamaneeewong, C, Numkanisorn S, [Chareancholvanich K](#), Harnroongroj T. A retrospective analysis of medial opening wedge high tibial osteotomy for varus osteoarthritic knee. *Indian J Orthop* 2012;46(4):455-61.
25. Pornrattanamaneeewong C, Narkbunnam R, Siri Wattanasakul P, [Chareancholvanich K](#). Three-hour interval drain clamping reduces postoperative bleeding in total knee arthroplasty: A prospective randomized controlled trial. *Archives of Orthopaedic and Trauma Surgery* 2012;132(7):1059-63.
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28. Pornrattanamaneeewong C, Numkanisorn S, [Chareancholvanich K](#), Harnroongroj T. Author's reply. *Indian Journal of Orthopaedics*. 2013;47(2):215.
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30. Chareancholvanich K, Narkbunnam R, Pornrattanamaneeewong C. A prospective randomised controlled study of patient-specific cutting guides compared with conventional instrumentation in total knee replacement. *Bone Joint J* 2013;95-B(3):354-9.
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45. Tangwiwat S, Iamaroon A, Lurngnateetape A, Chareancholvanich K, Nuntawinit C, Imkong P. A Block Room in Parallel Processing Shortens the Anesthesia Utilization Time in Orthopedic Operating Rooms; A Prospective Cross-Sectional Study. *J Med Assoc Thai* 2017;100(Suppl 7):S166-72.
46. Pornrattanamaneeewong C, Ruangsomboon P, Chareancholvanich K, Wilairatana V, Narkbunnam R. Modified Robert Jones bandage cannot reduce invisible blood loss after total knee arthroplasty: a randomized-controlled trial. *Arch Orthop Trauma Surg* 2018;1-7.
47. Ruangsomboon P, Ohashi M, Pornrattanamaneeewong C, Chareancholvanich K, Chotivichit A. Retrieval analysis of polyethylene in total knee arthroplasty in Thailand: A case report. *Siriraj Med J* 2018;70(2):175-7.
48. Iamthanaporn K, Chareancholvanich K, Pornrattanamaneeewong C. Reasons for revision of failed hemiarthroplasty: Are there any differences between unipolar and bipolar? *Eur J Orthop Surg and Trauma* 2018;28(6):1117-23.
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J Med Assoc Thai 2019;102(3), pp. 355–360.
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J Med Assoc Thai 2019;102(10), pp. 95–99.
51. Sukontahong, S., Ruangsomboon, P., Narkbunnam, R., Chareancholvanich, K., Pornrattanamaneeewong, C. Prevalence and risk factors of reinfection after two-stage exchange procedure for treating periprosthetic knee infection *J Med Assoc Thail* 2019; 102(10), pp. 15–19.
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53. Narkbunnam R, Chompoonutprapa A, Ruangsomboon P, Chareancholvanich K, Pornrattanamaneeewong C. Blood loss and transfusion rate compared among different dosing regimens of tranexamic acid administration in patients undergoing hip hemiarthroplasty for femoral neck fracture: A randomized controlled trial. *Injury* 2021.
54. Pornrattanamaneeewong C, Ruangsomboon C, Wingprawat K, Chareancholvanich K, Narkbunnam R. Accuracy of empirical distal femoral valgus cut angle of 4° to 6° in total knee arthroplasty: a randomized controlled trial. *Eur J Orthop Surg Traumatol* 2022;32(1):175-181.

55. Payapapnon P, Ruangsomboon P, Narkbunnam R, Chareancholvanich K, Pornrattanamaneeewong C. Early Intraoperative Dislocation after Closed Reduction in Modern Dual-mobility Total Hip Arthroplasty. *Arthroplast Today* 2022;13:89-92.
56. Narkbunnam R, Kongwachirapaitoon P, Ruangsomboon P, Chareancholvanich K, Pornrattanamaneeewong C. Reoperation rate and implant survivorship compared between cementless and cemented bipolar hemiarthroplasty in femoral neck fracture patients with chronic kidney disease. *Injury* 2022;53(3):1114-1121.
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58. Chareancholvanich K, Chatmaitri S, Benjawilaikul S, Ruangsomboon P, Narkbunnam R, Pornrattanamaneeewong C. To resurface or not to resurface? Investigating the impact of patellar resurfacing on anterior knee pain in rheumatoid arthritis patients undergoing total knee replacement. *Knee*. 2023 Dec;45:11-17. doi: 10.1016/j.knee.2023.08.019. Epub 2023 Sep 18. PMID: 37729669.
59. Narkbunnam R, Rojjananukulpong K, Ruangsomboon P, Chareancholvanich K, Pornrattanamaneeewong C. The association between perception of patients and their actual ability to do floor activities after mobile-bearing unicompartmental knee arthroplasty: A prospective, cross-sectional study. *Jt Dis Relat Surg*. 2023 Apr 26;34(2):245-252. doi: 10.52312/jdrs.2023.877. PMID: 37462626; PMCID: PMC10367171.
60. Ruangsomboon P, Ruangsomboon O, Pornrattanamaneeewong C, Narkbunnam R, Chareancholvanich K. Clinical and radiological outcomes of robotic-assisted versus conventional total knee arthroplasty: a systematic review and meta-analysis of randomized controlled trials. *Acta Orthop*. 2023 Feb 20;94:60-79. doi: 10.2340/17453674.2023.9411. PMID: 36805771; PMCID: PMC9941983.
61. Keerati Chareancholvanich, Chaturong Pornrattanamaneeewong, Ronnakit Udompanich, Kit Awiroatananon & Rapeepat Narkbunnam, A comparative study of early postoperative pain: robotic-assisted versus conventional total knee arthroplasty, 05 March 2025, *International Orthopaedics*
<https://doi.org/10.1007/s00264-025-06451-1>
62. Keerati Chareancholvanich, Worawut Keesukpant, Chaturong Pornrattanamaneeewong, Rapeepat Narkbunnam & Atthakorn Jarusriwanna, Comparison of three cryotherapy techniques for early post-TKA pain control in terms of efficacy and patient satisfaction: a randomized controlled trial, 08 January 2025, Chareancholvanich et al. *Arthroplasty* (2025) 7:5 <https://doi.org/10.1186/s42836-024-00287-7>