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How to calculate femoral anteversion

1.Canavese F, Castañeda P, Hui J, Li LY, Li YQ, Rosposch A. Developmental dysplasia of the hip: promoting global exchanges to enable understanding the disease and improve patient care [J]. Orthop Traumatol Surg Res. 2020;106(7):1243-4. [◆ PubMed](#) [Google Scholar](#) 2.Pavone V, Cristo C, Vescio C, et al. Dynamic and static splinting for treatment of developmental dysplasia of the hip: a systematic review [J]. Children (Basel). 2020;8(2):104. [Google Scholar](#) 3.Scorcelletti M, Reeves ND, Rittweger J, Ireland A. Femoral anteversion: significance and measurement [J]. J Anat. 2020;237(5):811-26. [◆ PubMed](#) [PubMed Central](#) [Google Scholar](#) 4.Klein C, Fontanarosa A, Khouri N, Bellity J, Padovani JP, Glorion C, et al. Anterior and lateral overcoverage after triple pelvic osteotomy in childhood for developmental dislocation of the hip with acetabular dysplasia: Frequency, features, and medium-term clinical impact [J]. Orthop Traumatol Surg Res. 2018;104(3):383-7. [◆ PubMed](#) [CAS](#) [Google Scholar](#) 5.Billing L. Roentgen examination of the proximal femur end in children and adolescents; a standardized technique also suitable for determination of the collum-, anteversion-, and epiphyseal angles: a study of slipped epiphysis and coxa plana [J]. Acta Radiol Suppl. 1954;110:1-80.[PubMed](#) [CAS](#) [Google Scholar](#) 6.Zhang RY, Su XY, Zhao JX, Li JT, Zhang LC, Tang PF. Three-dimensional morphological analysis of the femoral neck torsion angle-an anatomical study [J]. J Orthop Surg Res. 2020;15(1):192-6. [◆ PubMed](#) [PubMed Central](#) [Google Scholar](#) 7.Kraeutler MJ, Chaddayammurt V, Garabekyan T, Mei-Dan O. Femoral version abnormalities significantly outweigh effect of cam impingement on hip internal rotation [J]. J Bone Joint Surg Am. 2018;100(3):205-10. [◆ PubMed](#) [Google Scholar](#) 8.Boughton OR, Uemura K, Tamura K, et al. Gender and disease severity determine proximal femoral morphology in developmental dysplasia of the hip [J]. J orthop Res. 2019;37(5):1123-32.Article [Google Scholar](#) 9.Sangeux M, Mahy J, Graham HK. Do physical examination and CT-scan measures of femoral neck anteversion and tibial torsion relate to each other?[[J]. Gait Posture. 2014;39(1):12-8. [◆ PubMed](#) [Google Scholar](#) 10.Harper CM, Sylvestre AD, McAfee RK, et al. A novel method for quantifying femoral neck anteversion: a case study in extinct and extant sloths [J]. Anat Rec. 2021;304(2):266-78. [◆ Google Scholar](#) 11.Westberry DE, Wack LI, Davis RB, Hardin JW. Femoral anteversion assessment: comparison of physical examination, gait analysis, and EOS biplanar radiography [J]. Gait Posture. 2018;62:285-90. [◆ PubMed](#) [Google Scholar](#) 12.Patro BP, Behera S, Das SS, et al. Estimation of femoral neck anteversion in adults: a comparison between clinical method, radiography, and computed tomography at a tertiary-care center in Eastern India [J]. Cureus. 2019;11(4):e4469-72.[PubMed](#) [PubMed Central](#) [Google Scholar](#) 13.Pierrepont JW, Marei E, Baré JV, et al. Variation in femoral anteversion in patients requiring total hip replacement [J]. Hip Int. 2020;30(3):281-7. [◆ PubMed](#) [Google Scholar](#) 14.Gose S, Sakai T, Shibata T, Murase T, Yoshikawa H, Sugamoto K. Morphometric analysis of the femur in cerebral palsy : 3-dimensional CT study [J]. J Pediatr Orthop. 2010;30(6):568-74. [◆ PubMed](#) [Google Scholar](#) 15.Jia JJ, Li LL, Zhang LJ, Zhao Q, Liu XJ. Three dimensional-CT evaluation of femoral neck anteversion, acetabular anteversion and combined anteversion in unilateral DDH in an early walking age group [J]. Int Orthop. 2012;36(1):119-24. [◆ PubMed](#) [Google Scholar](#) 16.Mootha AK, Saini R. Comment on Jia et al. Three dimensional CT evaluation of femoral neck anteversion, acetabular anteversion and combined anteversion in unilateral DDH in an early walking age group [J]. Int Orthop. 2012;36(7):1531-2. [◆ PubMed](#) [PubMed Central](#) [Google Scholar](#) 17.Cho W, Job AV, Chen J, Baek JH. A review of current clinical applications of three-dimensional printing in spine surgery [J]. Asian Spine J. 2018;12(1):171-7. [◆ PubMed](#) [PubMed Central](#) [Google Scholar](#) 18.Weiner DS, Cook AJ, Hoyt WA, et al. Computed tomography in the measurement of femoral anteversion [J]. Orthopedics. 1978;1(4):299-306.Article [CAS](#) [Google Scholar](#) 19.Koo TK, Li MY. A guideline of selecting and reporting intraclass correlation coefficients for reliability research [J]. J Chiropr Med. 2016;15(2):155-63. [◆ PubMed](#) [PubMed Central](#) [Google Scholar](#) 20.Wyles CC, Vargas JS, Heidenreich MJ, Mara KC, Peters CL, Clohisy JC, et al. Natural history of the dysplastic hip following modern periacetabular osteotomy [J]. J Bone Joint Surg Am. 2019;101(10):932-8. [◆ PubMed](#) [Google Scholar](#) 21.Thawrani D, Sucato DJ, Podaszwa DA, DeLaRocha A. Complications associated with the Berneseperiacetabular osteotomy for hip dysplasia in adolescents [J]. J Bone Joint Surg Am. 2010;92(8):1707-14. [◆ PubMed](#) [Google Scholar](#) 22.Tarpada SP, Girdler SJ, Morris MT. Developmental dysplasia of the hip: a history of innovation [J]. J Pediatr Orthop B. 2018;27(3):271-3. [◆ PubMed](#) [Google Scholar](#) 23.Kothari A, Grammatopoulos G, Hopewell S, Theologis T. How does bony surgery affect results of anterior open reduction in walking-age children with developmental hip dysplasia [J]. Clin Orthop Relat Res. 2016;474(5):1199-208. [◆ PubMed](#) [Google Scholar](#) 24.Qadir I, Ahmad S, Zaman AU, et al. One-stage hip reconstruction for developmental hip dysplasia in children over 8 years of age [J]. Hip Pelvis. 2018;30(4):260-8. [◆ PubMed](#) [PubMed Central](#) [Google Scholar](#) 25.Bhuyan BK. Outcome of one-stage treatment of developmental dysplasia of hip in older children [J]. Indian J Orthop. 2012;46(5):548-55. [◆ PubMed](#) [PubMed Central](#) [Google Scholar](#) 26.Kaiser P, Attal R, Kammerer M, Thauerer M, Hamberger L, Mayr R, et al. Significant differences in femoral torsion values depending on the CT measurement technique [J]. Arch Orthop Trauma Surg. 2016;136(9):1259-64. [◆ Google Scholar](#) 27.Chimhundu C, Sivarasu S, Steiner S, Smit J, Douglas TS. Femoral neck anteversion measurement using linear slot scanning radiography [J]. Med Eng Phys. 2016;38(2):187-91. [◆ PubMed](#) [Google Scholar](#) 28.Wells J, Nepple JJ, Crook K. Femoral morphology in the dysplastic hip: three-dimensional characterizations with CT [J]. Clin Orthop Relat Res. 2017;475(4):1045-54. [◆ PubMed](#) [Google Scholar](#) 29.Kim JS, Park TS, Park SB, Kim JS, Kim IY, Kim SI. Measurement of femoral neck anteversion in 3D. Part 1: 3D imaging method [J]. Med Biol Eng Comput. 2000;38(6):603-9. [◆ PubMed](#) [CAS](#) [Google Scholar](#) 30.Lee YS, Oh SH, Seon JK, Song EK, Yoon TR. 3D femoral neck anteversion measurements based on the posterior femoral plane in ORTHODOC system [J]. Med Biol Eng Comput. 2006;44(10):895-906. [◆ PubMed](#) [Google Scholar](#) 31.Park KK, Tsai TY, Dimitriou D, Kwon YM. Utility of preoperative femoral neck geometry in predicting femoral stem anteversion [J]. J Arthroplasty. 2015;30(6):1079-84. [◆ PubMed](#) [Google Scholar](#) 32.Sung KH, Youn K, Chung CY, Kittu MI, Kumara HC, Min JJ, et al. Development and validation of a mobile application for measuring femoral anteversion in patients with cerebral palsy [J]. J Pediatr Orthop. 2020;40(6):e516-21. [◆ PubMed](#) [Google Scholar](#) 33.Sangeux M, Pascoe J, Graham HK, Ramanauskas F, Cain T. Three-dimensional measurement of femoral neck anteversion and neck shaft angle [J]. J Comput Assist Tomogr. 2015;39(1):83-8. [◆ PubMed](#) [Google Scholar](#) 34.Uota S, Morikita I, Shimokochi Y. Validity and clinical significance of a clinical method to measure femoral anteversion [J]. J Sports Med Phys Fitness. 2019;59(11):1908-14. [◆ PubMed](#) [Google Scholar](#) Page 2 Observer 2D-FNA 3D-FNA ICC value 95% CI ICC value 95% CI A-A 0.452 0.386 to 0.498 0.959 0.931 to 0.986 B-B 0.512 0.465 to 0.563 0.921 0.905 to 0.958 C-C 0.338 0.296 to 0.385 0.856 0.829 to 0.898 A-B 0.442 0.375 to 0.499 0.890 0.875 to 0.921 B-C 0.466 to 0.513 0.933 0.906 to 0.959 A-C 0.393 0.362 to 0.424 0.968 0.943 to 0.991 A, B, and C represent different observers 1.Miki H, Sugano N. Modular neck for prevention of prosthetic impingement in cases with excessively anteverted femur. Clin Biomech (Bristol, Avon). 2011;26:944-9.Article [Google Scholar](#) 2.Ezquerria L, Quilez M, Pérez M, et al. Range of movement for impingement and dislocation avoidance in total hip replacement predicted by finite element model. J Med Biol Eng. 2017;37(1):26-34. [◆ PubMed](#) [PubMed Central](#) [Google Scholar](#) 3.Elkins J, Callaghan J, Brown T. The 2014 Frank Stinchfield Award: the 'landing zone' for wear and stability in total hip arthroplasty is smaller than we thought: a computational analysis. Clin Orthop Relat Res. 2015;473(2):441-52. [◆ PubMed](#) [Google Scholar](#) 4.Tezuka T, Heckmann N, Bodner R, et al. Functional safe zone is superior to the Lewinnek safe zone for total hip arthroplasty: why the Lewinnek safe zone is not always predictive of stability. J Arthroplast. 2019;34(1):3-8. [◆ Google Scholar](#) 5.Abdel M, von Roth P, Jennings M, et al. What safe zone? The vast majority of dislocated THAs are within the Lewinnek safe zone for acetabular component position. Clin Orthop Relat Res. 2016;474(2):386-91. [◆ PubMed](#) [Google Scholar](#) 6.Matsushita A, Nakashima Y, Fujii M, Sato T, Iwamoto Y. Modular necks improve the range of hip motion in cases with excessively anteverted or retroverted femurs in THA. Clin Orthop Relat Res. 2010;468(12):3342-7. [◆ PubMed](#) [PubMed Central](#) [Google Scholar](#) 7.Dorr L, Malik A, Dastane M, et al. Combined anteversion technique for total hip arthroplasty. Clin Orthop Relat Res. 2009;467(1):119-27. [◆ PubMed](#) [Google Scholar](#) 8.Widmer K. The impingement-free, prosthesis-specific, and anatomy-adjusted combined target zone for component positioning in THA depends on design and implantation parameters of both components. Clin Orthop Relat Res. 2020;478(8):1904-18. [◆ PubMed](#) [Google Scholar](#) 9.Uding A, Bloom N, Commean P, et al. Clinical tests to determine femoral version category in people with chronic hip joint pain and asymptomatic controls. Musculoskelet Sci Pract. 2019;39:115-22. [◆ PubMed](#) [Google Scholar](#) 10.Boissonneault A, Hiranaka T, Roberson J, et al. A validated single-view radiographic alternative to computed tomography for the measurement of femoral anteversion: a method-comparison study. J Arthroplast. 2017;32(3):1018-23. [◆ Google Scholar](#) 11.Liodakis E, Doxastaki I, Chu K, Krettek C, Gaulke R, Citak M, et al. Reliability of the assessment of lower limb torsion using computed tomography: analysis of five different techniques. Skelet Radiol. 2012;41(3):305-11. [◆ Google Scholar](#) 12.Mao C, Liang Y, Ding C, Guo L, Wang Y, Zeng Q, et al. The consistency between measurements of the femoral neck anteversion angle in DDH on three-dimensional CT and MRI. Acta Radiol. 2016;57(6):716-20. [◆ PubMed](#) [PubMed Central](#) [Google Scholar](#) 13.Park K, Tsai T, Dimitriou D, et al. Utility of preoperative femoral neck geometry in predicting femoral stem anteversion. J Arthroplast. 2015;30(6):1079-84. [◆ Google Scholar](#) 14.Sariel E, Knaffo Y. Three-dimensional analysis of the proximal anterior femoral flare and torsion. Anatomic bases for metaphyseally fixed short stems design. Int Orthop. 2017;41(10):2017-23. [◆ PubMed](#) [Google Scholar](#) 15.Fujihara Y, Fukunishi S, Fukui T, Nishio S, Okahisa S, Takeda Y, et al. Use of the G-guide for measuring stem antetorsion during total hip arthroplasty. Orthopedics. 2016;39(2):e271-5. [◆ PubMed](#) [Google Scholar](#) 16.Lee Y, Kim J, Kim T, et al. Validity of the intra-operative measurement of stem anteversion and factors for the erroneous estimation in cementless total hip arthroplasty using postero-lateral approach. Orthop Traumatol Surg Res. 2018;104(3):341-6. [◆ Article](#) [PubMed](#) [Google Scholar](#) 17.Murray D. The definition and measurement of acetabular orientation. J Bone Joint Surg Br. 1993;75:228-32.[CAS](#) [Article](#) [Google Scholar](#) 18.Dorr L, Wan Z, Malik A, et al. A comparison of surgeon estimation and computed tomographic measurement of femoral component anteversion in cementless total hip arthroplasty. J Bone Joint Surg Am. 2009;91(11):2598-604. [◆ PubMed](#) [Google Scholar](#) 19.Wines A, McNicol D. Computed tomography measurement of the accuracy of component version in total hip arthroplasty. J Arthroplast. 2006;21(5):696-701. [◆ Google Scholar](#) 20.Pongkunakorn A, Palawong P, Chatmaitri S, Phetpangnga N. Use of a digital protractor and a spirit level to determine the intraoperative anteversion of femoral component during cemented hip hemiarthroplasty: a prospective clinical trial. Arch Bone Jt Surg. 2019;7(4):314-20.[PubMed](#) [PubMed Central](#) [Google Scholar](#) 21.Nam K, Tsai T, Dimitriou D, et al. Ipsilateral varus knee alignment correlates with increased femoral stem anteversion in primary total hip arthroplasty. Hip Int. 2016;26(2):175-9. [◆ PubMed](#) [Google Scholar](#) 22.Fukunishi S, Nishio S, Fujihara Y, Okahisa S, Takeda Y, Fukui T, et al. Accuracy of combined anteversion in image-free navigated total hip arthroplasty: stem-first or cup-first technique? Int Orthop. 2016;40(1):9-13. [◆ PubMed](#) [Google Scholar](#) 23.Myers C, Laz P, Shelburne K, et al. The impact of hip implant alignment on muscle and joint loading during dynamic activities. Clin Biomech (Bristol, Avon). 2018;53:93-100.Article [Google Scholar](#) 24.Uemura K, Atkins P, Fiorentino N, et al. Hip rotation during standing and dynamic activities and the compensatory effect of femoral anteversion: an in-vivo analysis of asymptomatic young adults using three-dimensional computed tomography models and dual fluoroscopy. Gait Posture. 2018;61:276-81. [◆ PubMed](#) [PubMed Central](#) [Google Scholar](#) 25.Worliczek M, Weber M, Craiovan B, Wörner M, Völlner F, Springorum HR, et al. Native femoral anteversion should not be used as reference in cementless total hip arthroplasty with a straight, tapered stem: a retrospective clinical study. BMC Musculoskelet Disord. 2016;17(1):399. [◆ PubMed](#) [PubMed Central](#) [Google Scholar](#) 26.Marcovigi A, Ciampalini L, Perazzini P, Caldora P, Grandi G, Catani F. Evaluation of native femoral neck version and final stem version variability in patients with osteoarthritis undergoing robotically implanted total hip arthroplasty. J Arthroplast. 2019;34(1):108-15. [◆ Google Scholar](#) 27.Weber M, Woerner M, Craiovan B, Voellner F, Worlicek M, Springorum HR, et al. Current standard rules of combined anteversion prevent prosthetic impingement but ignore osseous contact in total hip arthroplasty. Int Orthop. 2016;40(12):2495-504. [◆ PubMed](#) [Google Scholar](#) 28.Ohmori T, Kabata T, Kajino Y, Inoue D, Taga T, Yamamoto T, et al. The optimal combined anteversion pattern to achieve a favorable impingement-free angle in total hip arthroplasty. J Orthop Sci. 2019;24(3):474-81. [◆ PubMed](#) [Google Scholar](#) 29.Park KK, Tsai TY, Dimitriou D, Kwon YM. Three-dimensional in vivo difference between native acetabular version and acetabular component version influences iliopsoas impingement after total hip arthroplasty. Int Orthop. 2016;40(9):1807-12. [◆ PubMed](#) [Google Scholar](#) 30.Tsukeoka T, Tsuneizumi Y, Lee T. The T-line as an intraoperative landmark for reproducing the native femoral anteversion during hip arthroplasty. Arch Orthop Trauma Surg. 2014;134(6):873-9. [◆ PubMed](#) [Google Scholar](#) 31.Unlu M, Kesmezacar H, Kantarci F, et al. Intraoperative estimation of femoral anteversion in cementless total hip arthroplasty using the lesser trochanter. Arch Orthop Trauma Surg. 2011;131(9):1317-23. [◆ PubMed](#) [Google Scholar](#) 32.Shon W, Yun H, Yang J, et al. The use of the posterior lesser trochanter line to estimate femoral neck version: an analysis of computed tomography measurements. J Arthroplast. 2013;28(2):352-8. [◆ Google Scholar](#) 33.Worliczek M, Weber M, Craiovan B, Zeman F, Grifka J, Renkawitz T, et al. Posterior lesser trochanter line should not be used as reference for assessing femoral version in CT scans: a retrospective reliability and agreement study. Acta Radiol. 2017;58(9):1101-7. [◆ PubMed](#) [Google Scholar](#) 34.Hirata M, Nakashima Y, Ohishi M, Hamai S, Hara D, Iwamoto Y. Surgeon error in performing intraoperative estimation of stem anteversion in cementless total hip arthroplasty. J Arthroplast. 2013;28(9):1648-53. [◆ Google Scholar](#) 35.Greber E, Pelt C, Gilliland J, et al. Challenges in total hip arthroplasty in the setting of developmental dysplasia of the hip. J Arthroplast. 2017;32(9):S38-44. [◆ Google Scholar](#) 36.Kosuge D, Yamada N, Azeгами S, Achan P, Ramachandran M. Management of developmental dysplasia of the hip in young adults: current concepts. Bone Joint J. 2013;95-B(6):732-7. 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