



Effect of clearance on friction and lubrication of hip implants

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Condition: New. Publisher/Verlag: LAP Lambert Academic Publishing | Biotribology of Birmingham Hip Resurfacing Implants with various clearances using blood and serum based lubricants | Friction and lubrication behaviour of 50mm diameter Birmingham Hip Resurfacing implants with diametral clearances 80 to 300 μ m, using blood (clotted and whole blood), a combination of bovine serum with hyaluronic acid and carboxymethyl cellulose (CMC) adjusted to a range of viscosities (0.001-0.2 Pas), and bovine serum with CMC adjusted to a similar range of viscosities, have been investigated. The result of this investigation has suggested strongly that the optimum clearance for the 50 mm diameter MOM BHR implants to be 150 μ m and 0.2) and be able to accommodate a mixed lubrication mode and hence lower the risk of micro- or even macro-motion specially immediately after hip implantation. These suggested optimum clearances will also allow for low friction (i.e. friction factors of 0.2-0.07) and reasonable lubrication (dominantly mixed regime) for the likely cup deflection occurring as a result of press-fit fixation. | Format: Paperback | Language/Sprache: english | 292 pp.



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