

Analisis luaran fungsional tiga tipe bearing surface pada total hip replacement di rsupn dr cipto mangunkusumo 2011 -2016 = Functional outcome comparison analysis of three bearing surfaces in total hip replacement in dr Cipto Mangunkusumo national hospital 2011-2016

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Abstrak

ABSTRAK

Pendahuluan: Total Hip Replacement THR disebut sebagai operasi abad ini karena menunjukkan hasil yang memuaskan walaupun memiliki harga yang relatif mahal. THR telah dilakukan lebih dari 1 juta kali/tahun secara global dan diperkirakan akan meningkat dua kali pada dekade depan. Pada institusi kami, permintaan THR meningkat 313 dari tahun 2011 -2016. Kini telah banyak hadir berbagai jenis desain implant terutama tipe bearing surface dengan kelebihan dan kekurangan masing-masing. Namun pemilihannya masih menjadi kontroversial. Metode: Kami melaporkan penelitian potong lintang terhadap tiga tipe bearing surface yang sering digunakan di institusi kami; ceramic on polyethylene CoP , metal on polyethylene MoP dan ceramic on ceramic CoC . Enam puluh tiga pasien berhasil dilakukan review dengan usia rata-rata 45 tahun dan follow up rata-rata 2,5 tahun. Kami menilai luaran fungsional dengan Harris Hip Score HHS dan radiologis. Hasil dan Pembahasan: Pada follow up terakhir, rata-rata HHS pascaoperasi yaitu 87,1 10,2 p=0,79 yang menunjukkan tidak ada perbedaan antar kelompok. Rata-rata perbedaan HHS pascaoperasi ndash; praoperasi yaitu 46,48 14,1 p=0,005 yang menunjukkan adanya perbedaan signifikan di dalam kelompok oleh analisis one-way ANOVA. Analisa post hoc menunjukkan rata-rata perbedaan HHS pascaoperasi ndash; praoperasi secara statistik lebih tinggi pada kelompok CoC 56,82 12,7 dibandingkan dengan CoP 44,29 14,1, p = 0,007 dan MoP 42,05 11,9, p = 0,015 . Tidak ada perbedaan antara kelompok MoP dan CoP p = 1,000 . Tidak ditemukan perbedaan luaran radiologis pada ketiga kelompok. dimungkinkan karena follow up yang relatif pendek sehingga dibutuhkan studi dengan follow up yang lebih lama.

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ABSTRACT

Introduction Total Hip Replacement THR is considered to be the operation of the century with a high level of satisfactory result even though it has relatively high cost. It has been performed more than 1 million times year worldwide and its demand is estimated to double within decade. In our institution, its demand already increased by 313 from 2011 2016. Nowadays, we are faced with various implant design especially bearing surface with its benefits and weaknesses. But the ideal preference of bearing surface in THR remains a controversy. Methods We report a cross sectional study of three type of THR bearing surface which are ceramic on polyethylene CoP , metal on polyethylene MoP and ceramic on ceramic CoC , that was frequently used in our institution. Total patient of 63 were available for review with mean age of 45 years old and mean follow up of 2,5 years. We assessed their functional outcome with Harris Hip Score HHS and radiological outcome. Results and Discussion At the final follow up, mean post operative HHS was 87,1 10,2 p 0,79 that showed there were no difference between groups. Mean post operative ndash pre operative HHS differences was 46,48 14,1 p 0,005 that showed there were statically significant difference between groups as determined by one way ANOVA. A post hoc analysis revealed that postoperative ndash

preoperative HHS differences were statistically significantly higher in CoC group 56,82 12,7 compared to CoP group 44,29 14,1, p 0,007 and MoP group 42,05 11,9, p 0,015 . There was no statistically significant difference between the CoP and MoP p 1,000 . Radiological outcomes reveal no loosening in all groups. This is predicted due to relatively short follow up time, thus longer follow up is needed.