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Quality of Life Following Primary Total Knee Arthroplasty: Factors Predicting Satisfaction in Low-Income Population

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Disclosures:

- Authors (or a member of their immediate family) **DO NOT** have a financial interest or other relationship with a commercial company or institution.
- Authors declare that there is **NO CONFLICT OF INTEREST.**



BACKGROUND:

- Total knee arthroplasty is one of the most common and rewarding procedures in orthopaedic surgery
- However, it remains for many people a costly procedure, and one in five patients remains dissatisfied with their prosthesis



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OBJECTIVE:

- The aim of this work was to calculate the satisfaction rate after total knee arthroplasty and to establish predicting patient satisfaction factors in low-income population



METHODS:

- Our study included 279 primary total knee arthroplasties placed between 2015 and 2019 with a minimum follow-up of two years
- Our retrospective census took into account the various factors concerning the patient's background and monthly family income, the surgical procedure and the knee-related parameters before and after surgery



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METHODS:

- Functional outcomes were assessed using the Western Ontario and McMaster Universities Osteoarthritis Index (WOMAC) and the International Knee Documentation Committee (IKDC) subjective scores
- Satisfaction was estimated by a yes or no question



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RESULTS:

- The mean age of patients was 68 years-old
- Over 95% declared < 1000 US\$ monthly family income. At the last follow-up, all our patients reported a functional improvement with better WOMAC and IKDC scores
- The overall dissatisfaction rate was 22.6%



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RESULTS:

- Two parameters concerning the patient's background had a statistically significant link with dissatisfaction: the female sex and the history of diabetes
- Only one parameter related to the knee preoperatively had a direct, statistically significant influence on increasing dissatisfaction risk: limited range of motion with flexion <math><90^\circ</math>



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RESULTS:

- No parameters related to surgery had a statistically significant link with satisfaction
- Regarding parameters related to the knee after surgery, only moderate to severe residual pain (Visual Analog Scale: VAS>3) was associated with patient dissatisfaction after total knee replacement



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DISCUSSION:

- The overall patient dissatisfaction rate after TKA varies between 7 to 32% [1-3] with a mean rate of 20% [4]
- Factors predicting patients dissatisfaction in the literature are various: female gender, high BMI, low preoperative RAM, poor socioeconomic conditions,...[2,3]
- Low-income population patients should be well informed preoperatively of the different risk factors that may interfere with their satisfaction [1,6]



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CONCLUSION:

- Recognition of factors predicting patient satisfaction in low-income population after total knee arthroplasty should influence our behaviour so as to act on the modifiable factors, allowing to reduce the risk of dissatisfaction to minimum, or to have a more alert attitude towards non modifiable factors in order to adapt the therapeutic care and to better inform and educate patients.



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