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## Validity of Quality-of-Life Measurement in Economic Evaluations: Agreement between Western Ontario and McMaster Osteoarthritis Index (WOMAC) and the EuroQOL 5D (EQ5D) Utility scores

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## **Validity of Quality-of-Life Measurement in Economic Evaluations: Agreement between Western Ontario and McMaster Osteoarthritis Index (WOMAC) and the EuroQOL 5D (EQ5D) Utility scores**

Osteoarthritis (OA) of the hip and knee is a common condition that eventually requires total joint replacement (TJR). The economic burden of OA was \$2.9 billion in 2010 and is projected to be \$ 7.9 billion by 2031, in Canada. Economic evaluations are commonly conducted through cost-utility analysis, where health benefits are measured using utility scores. One of the most common utility measures is the European Quality of Life (EQ-5D). OA research studies commonly use disease-specific quality of life tools such as the Western Ontario and McMaster's Universities Osteoarthritis Index (WOMAC) to derive utility scores; but the validity of this method is unknown. The purpose of this research is to determine the agreement between utility scores derived from WOMAC and the EQ-5D surveys among patients who have undergone TJR. The results of this study will support decision-makers with accurate estimates of the utility of TJR for OA patients.