Inequalities in the Provision of Surgical Interventions: Whose Responsibility?

In some parts of the so-called “developed” world, there is a culture of social responsibility and “fairness.” When translated into healthcare delivery this embraces the equitable provision of effective interventions for all those in the society who are in need. That is certainly true of Canada and of many European countries, including the UK, where the state provides healthcare.

However, in both Canada and the UK there is abundant evidence for inequities in the provision of many aspects of healthcare, including major surgical interventions such as cardiac surgery, renal transplantation, and joint replacement. Many studies have shown that older people, women, ethnic minorities, and those of lower socioeconomic status (SES) are all less likely to receive such interventions than well-off, middle aged white males.

Further evidence for inequality in the provision of joint replacement in Canada is published in this issue of The Journal. In a large, community-based, prospective study of people with osteoarthritis (OA), Rahman and colleagues have shown that gender and SES affect the chances of both being referred to an orthopedic surgeon and getting a joint replacement. Age and sex interacted with SES, but after adjustment for age, sex, and comorbidities, they report relatively large and statistically significant effects of SES on both hip and knee joint replacement rates for people with OA. The results in this Canadian study are similar to those recently reported from the UK.

Rahman and colleagues have not gone into the reasons for inequality in the provision of surgical interventions such as joint replacement. They have added a well analyzed and very large data set to the existing, extensive body of evidence, coming from many different countries and subspecialties in medicine, for its existence. But we should be going further than documenting this phenomenon; we should be exploring its determinants, and if we consider it inappropriate (inequitable), we should be looking for interventions that address it.

There may be inequities both in access to healthcare and in the provision of interventions once the system has been accessed. Access problems may be caused by the healthcare systems in any given community or country (such as the need to pay for the service), or to patient-related factors such as a lack of belief in modern biomedicine. Once the patient gets into the state’s conventional system, the reason for any subsequent inequitable provision of care can be difficult to explain. Many authors seem blind to the fact that the system or its healthcare providers might be partly at fault, and put all the “blame” on the patients, citing issues such as comorbidities in those (“unworthy”?!) people of low SES, and unwillingness to have a recommended intervention. Willingness and expectations of outcome can certainly be a powerful determinant of who gets a joint replacement, but the evidence from Canada is that at least in that country people of lower SES had a greater need for arthroplasty and were equally willing to consider it when compared to those with higher SES. In both Canada and the UK the “gate-keeper” [the primary care doctor or general practitioner (GP) who refers to an orthopedic surgeon] is less likely to refer women or low SES patients to surgeons, and there is evidence from Europe that GPs, like many patients, think the arthritis has to be very severe before arthroplasty can be considered, suggesting that they are indeed partly to blame. And surgeons are less likely to operate on women and minority groups than on middle aged white men, so maybe they are to blame as well. Perhaps GPs and surgeons are biased against women, low SES patients, and other minority groups?

But to “blame” a particular group of people is both inappropriate and unhelpful, as we know that most problems in healthcare delivery are due to problems with culture, society, systems, or interpersonal communications, rather than being caused by “bad” individuals. The reasons for inequities in the provision of joint replacement may be both multiple and quite subtle. Any biases that doctors or other healthcare professionals might have against women or disadvantaged groups are unlikely to be conscious ones, but they could be conditioned by the culture that we live in, that might infer for example, that women have less need for a joint replacement, or that they do not get as bad arthritis as men, as has been shown for heart disease. Or perhaps it is about communication between doctors and patients. Most healthcare professionals come from high SES groups, and
few such studies20.

The research community needs to share some of the responsibility for this state of affairs as well. If we compare the numbers of publications produced about the design and fixation of joint prostheses with the numbers about the provision of joint replacement, indications for the procedures, or patient-related outcomes, we can clearly see where our research priorities lie. We need to be researching the causes of inequalities and inequities in the provision of major, effective interventions, such as joint replacement or renal transplantation. And we should stop working in silos — in which those thinking about provision of joint replacement rarely talk to public health experts or those interested in the provision of other major interventions such as cardiac surgery or renal transplantation. We also need to design and undertake more trials of interventions that might reduce inequities. A recent review of interventions designed to aid equitable provision of care for people with OA found very few such studies20.

Significant inequities exist in the provision of joint replacement, and the reasons for this are not yet clear. No one is to “blame,” but the responsibility for this unfair state of affairs is a shared one that involves the culture we live in, our healthcare systems, public opinion, and the behavior of patients, professionals and academicians.

PAUL A. DIEPPE, MD, FRCP
Institute of Clinical Education,
Peninsula Medical School,
Universities of Exeter and Plymouth, UK

Address correspondence to Dr. Dieppe. E-mail: paul.dieppe@pms.ac.uk

REFERENCES