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Dari: Linta Meyla Putri (lintameyla@gmail.com)

Kepada: yuyunhand@yahoo.com

Tanggal: Jumat, 5 November 2021 11.12 WIB

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From: yuyun herastutik < yuyunhand@yahoo.com>

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Warm regards,

#### Linta Meyla Putri S. KM



OSJ-21-0059\_Exploring Patient Preferences in Orthopaedic Surgery- Implications for Surgical Training and Patient Education.pdf

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# **Exploring Patient Preferences in Orthopaedic Surgery: Implications for Surgical Training and Patient Education**

Journal:	Journal of Orthopaedic Surgery
Manuscript ID	OSJ-21-0059
Manuscript Type:	Original Article
Keywords:	Surgeons, Communication, Education, Patient-centred care
Abstract:	Objective Patient-centred care has been shown to play an important role in patient outcomes. Understanding the professional qualities a patient values can assist surgeons and surgical training programmes to improve patient engagement in health care. The objective of this study was to explore the attributes that orthopaedic patients value in their surgical care providers.  Design / Setting This was a survey-based cross-sectional study consisting of 18 questions, asking patients to consider their preferences for surgeon age, gender and various surgeon attributes and behaviours for different surgical scenarios. The survey was provided to adult patients attending the Gold Coast Hospital and Health Service orthopaedic outpatient clinics.  Participants There were 181 participants involved in the survey. After exclusions due to incomplete questionnaires, 174 patients were included for analysis with a median (IQR) age of 49 (25) years, 52.3% male and median (IQR) index of socioeconomic disadvantage of 7 (2).  Results The majority of patients expressed no preference for surgeon gender regardless of the scenario (93.1 to 97.1%) and 65.9% expressed no preference, 40-49 years was the most common age group preferred (16.8%). The most valued surgeon characteristics included provision of clear explanations, surgical and technical abilities and listening carefully. The characteristics of least value were being involved in student education, involvement in research and attendance at medical conferences.  Conclusions The majority of patients have no stated preference for age or gender of their orthopaedic surgeon. Patients highly value interpersonal skills and communication; and show less concern for involvement in research and education.

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# Structured Abstract

#### Objective

Patient-centred care has been shown to play an important role in patient outcomes. Understanding the professional qualities a patient values can assist surgeons and surgical training programmes to improve patient engagement in health care. The objective of this study was to explore the attributes that orthopaedic patients value in their surgical care providers.

#### Design / Setting

This was a survey-based cross-sectional study consisting of 18 questions, asking patients to consider their preferences for surgeon age, gender and various surgeon attributes and behaviours for different surgical scenarios. The survey was provided to adult patients attending the Gold Coast Hospital and Health Service orthopaedic outpatient clinics.

#### **Participants**

There were 181 participants involved in the survey. After exclusions due to incomplete questionnaires, 174 patients were included for analysis with a median (IQR) age of 49 (25) years, 52.3% male and median (IQR) index of socioeconomic disadvantage of 7 (2).

#### Results

The majority of patients expressed no preference for surgeon gender regardless of the scenario (93.1 to 97.1%) and 65.9% expressed no preference for the age of their surgeon. For those that did have a preference, 40-49 years was the most common age group preferred (16.8%). The most valued surgeon characteristics included provision of clear explanations, surgical and technical abilities and listening carefully. The characteristics of least value were being involved in student education, involvement in research and attendance at medical conferences.

#### Conclusions

The majority of patients have no stated preference for age or gender of their orthopaedic surgeon. Patients highly value interpersonal skills and communication; and show less concern for involvement in research and education.

## **Declaration of interest**

Declarations of interest: none. The authors report no external funding sources for this study

## Introduction

Understanding patient preferences aids the delivery of effective patient-centred healthcare. The importance is perhaps heightened in surgical disciplines, as they typically involve short-term relationships between patient and practitioner, where the cultivation of rapport needs to be rapid. Surgery also encompasses and requires many professional domains including technical ability and decision making, the latter is increasingly a shared process with other members of the healthcare team, including the patient. Shared decision making in medicine is key to improving patient satisfaction and outcome, and providing care that reflects patient values has been shown to enhance patient experience, mitigate risk, increase engagement

in healthcare and improve outcomes.<sup>1</sup> Furthermore, it is important that both active surgeons and training colleges are cognisant of patient preferences as this will enable more effective, targeted patient education and ensure that surgical training frameworks are fostering skills and attributes consistent with the expectations of both the profession and the public.

A growing body of literature examining patient preferences in healthcare is emerging. Previous authors have reviewed the impact of different surgeon characteristics on patient engagement and outcomes in a variety of healthcare scenarios, such as physician gender, religious backgrounds and preferred attire of their surgeon.<sup>2–4</sup> A recent systematic review of 86 studies has analysed the factors that influence how patients choose surgeons and surgical care, finding that professional characteristics such as surgeon reputation and competency were consistently highly valued across multiple surgical subspecialties including cancer surgery, cardiovascular surgery and plastic surgery.<sup>5</sup> Personal attributes including interpersonal and communication skills are also considered important and may act as a surrogate for decision making if patients are unable to make an assessment of the surgeon's technical expertise. There is limited data available in the published literature regarding patient preferences in the field of orthopaedic surgery, although surgeon quality, reputation and bed-side manner have been identified as important characteristics in both general and subspecialty orthopaedic practice.<sup>6–9</sup>

In addition, there has been an increasing dialogue regarding gender and cultural diversity in healthcare, particularly regarding gender equality in the male-dominated surgical specialties such as orthopaedics. While a series of Dutch patients reported gender preferences for specialists involved in more intimate or psychosocial evaluations, no gender preference was raised for the surgical specialties. Despite these findings, women continue to be underrepresented in surgical disciplines, particularly in orthopaedics, with only 3.1% of registered orthopaedic surgeons in Australia being female in 2016. With regards to physician age, studies have previously suggested patients prefer physicians with many years of experience who remain up to date on newer treatments available. As healthcare systems and training colleges strive for the development of a workforce that is more representative and reflective of community expectations, understanding whether patient preferences could hamper training and employment opportunities for women is important. At present, the prevalence of gender and age preferences amongst orthopaedic patients in the Australian public has not yet been determined.

The importance of teaching professionalism to training surgeons has been identified. Surgical training programmes now involve key competencies which are considered to be the essential professional qualities required to perform as a competent surgeon. These provide an assessable framework for supervisors of the developing surgical trainee. Examples include the CanMEDS model developed by the Royal College of Physicians and Surgeons of Canada and the nine competencies outlined by the Royal Australasian College of Surgeons (RACS) in 2003.<sup>12,13</sup> These nine competencies are considered to be of equal importance by RACS, and outline skills such as medical and technical expertise, communication, teamwork and scholarship and teaching.13 These competencies have been developed to ensure a minimum required standard for professional practice and in doing so protect the interests of the patient and public. Studies have shown that amongst individual medical professionals the importance assigned to these professional competencies is variable, with technical expertise often being valued over communication, leadership and collaborative skills.<sup>14,15</sup> However, little is currently known about the patients' perspective of these professional standards and whether the priorities of patients are similar to those of healthcare professionals.

The objective of this study was to investigate the preferences of patients for the attributes and behaviours of their orthopaedic care provider in the outpatient setting. This includes

reviewing demographic factors as well professional qualities of their surgical care provider.
The present study is the first to provide an Australian perspective on the subject, including implications for both patient and surgical education.

## Materials & Methods

### Participant Recruitment

This is a single-centre, cross-sectional, survey-based study assessing the preferences of patients in an orthopaedic outpatient setting. The study was conducted from December 2018 to January 2019 at the Gold Coast Hospital and Health Service in Queensland, Australia. Participants were recruited from both specialist orthopaedic and non-specialist orthopaedic trauma clinics. Following informed consent, participants completed the self-administered, anonymous questionnaire prior to their scheduled appointments. No incentive or compensation was provided for participation. Institutional ethics approval was obtained from Gold Coast Hospital and Health Service Human Research Ethics Committee, reference number LNR/2018/QGC/47651.

## Eligibility Criteria

Eligibility criteria included English-speaking, adult patients aged ≥ 18 years, who were attending the orthopaedic outpatient department. Exclusion criteria included patients under 18 years of age, non-English speaking, cognitive or physical impairment precluding completion of questionnaire. Participants who completed less than 50% of the questionnaire were also excluded.

#### Questionnaire

The questionnaire distributed is included as Appendix 1. Participant demographic variables collected included gender, age and residential postcode. Residential postcode was used as a determinant of socio-economic status using the Index of Relative Socio-economic Disadvantage (IRSD) based on Australian Bureau of Statistics census data, which is graded from 1 to 10, with a score of 1 being the most disadvantaged.<sup>16</sup>

Patients were asked to express preference for the age and gender of their surgeon (provider). Provider age was divided into five categories: 30-39 years old, 40-49 years old, 50-59 years old, 60-69 years old and > 70 years old. Gender preferences were assessed in three clinical scenarios: their upcoming clinic visit, total hip replacement surgery and carpal tunnel release surgery. The mock clinical scenarios were chosen to represent situations in which prevalent societal gender stereotypes may be considered desirable in a surgeon. For example, physical strength may be seen as beneficial when undertaking a total hip replacement, while empathic communication skills preferred in clinic consultation, and/or fine motor skills in a nerve release procedure. The participant was also asked to provide a free text response to explain the rationale for their expressed preferences. This has been adapted from previous studies of gender preferences in other surgical fields.<sup>17–19</sup>

Patients preferences for 12 personal and professional surgeon attributes were rated using a modified 5-point Likert scale, ranging from 1 = not at all important to 5 = extremely important. These attributes included technical and surgical expertise, communication style, interpersonal skills and involvement in professional activities. These were selected based on similar studies and professional training guidelines.<sup>2–9,13,17–34</sup>

## Data analysis

Descriptive data analysis was performed for basic participant demographics and their preference for surgeon gender, age, attributes and behaviours. Quantitative data were analysed using SPSS v27.0 (IBM SPSS Statistics, Armonk, NY, USA) and graphically represented with Microsoft Excel (version 16.44). Thematic analysis was also performed for qualitative data for the free-text responses using a word cloud to display the term frequency - inverse document frequency (TF-IDF) index.<sup>35,36</sup>

## Results

A total of 181 patients completed the survey. Seven were excluded for inadequate completion rate, resulting in 174 patients included for analysis with a median (interquartile range (IQR)) age of 49 (25) years, 52.3% male and median (IQR) index of relative socioeconomic disadvantage of 7 (2).

Table 1 lists a summary of patient responses with regards to age and gender. The majority of participants indicated that they have no expressed preference for age (62.6%). When asked to indicate an age group preference, however, the 40-49 age group was most common (16.7%). Participants stated that the reasons for this were a balance of both experience and currency of practice. Similarly, most participants identified no preference with regard to surgeon gender for their clinic visit (97.1%) or for the proposed surgical procedures (total hip replacement 93.1% or carpal tunnel release 94.8%).

Figure 1 presents participant ratings of surgeon attributes or behaviours. Participants assigned similar importance to surgeon communication and expertise. The three most important surgeon attributes or behaviours identified by participants were providing clear and thorough explanations, having excellent surgical and technical abilities, and listening carefully to the patient. There was greater heterogeneity in the importance ascribed to surgeon attendance at professional meetings, active involvement in research, and involvement in teaching and training with these characteristics being rated of lower importance overall.

The free-text answers provided by participants have been summarised in Figure 2. As displayed in the word cloud, the most frequently used terms or phrases were "experience" and "doesn't matter", followed by "good job". Recurring themes noted were that patients were not concerned by the age or gender of their surgeon, but rather they wanted a surgeon who was qualified, confident, understanding and would perform surgery to a high standard. There was frequent repetition of the belief that competency was based on training and experience, and was independent of age or gender.

# Discussion

The responses provided in this study suggested patients have little concern for the demographic factors of their surgeon. Our interviewed cohort expressed largely that they would not prefer a surgeon of a particular gender, and the majority of patients had no preference for age. Patients also preferred qualities pertaining to individual skills, such as communication and technical expertise. Qualities of lesser importance included being involved in research, teaching and continuing professional development at conferences.

Between 93-97% of Australian orthopaedic patients expressed no preference for the gender of their surgeon. This compared with 89% of orthopaedic patients in a recent study from the

UK and 78-84% of orthopaedic patients from the US.<sup>2,21,37</sup> Despite these findings, gender diversity continues to be an issue challenging many surgical training colleges with the field of orthopaedics having the highest rates of gender disparity. A study by Dusch et al of 476 found that patients had no preference for surgeon gender but noted a significant interaction in respondent choice between surgeon demeanour and the type of surgery. For example, patients preferred a more empathic, supportive surgeon for breast cancer surgery compared to a decisive and confident personality for lung cancer surgery.<sup>27</sup> In contrast, our study did not find any difference for gender preference based on the nature of the orthopaedic services provided.

This study highlights that patients assign equally high importance to both the technical and non-technical aspects of orthopaedic surgery, with surgical and technical expertise highly ranked as on a par with proficiency of communication and emotional skills. Similarly, Bozic et al found interpersonal skills to be the most important factor for selecting a provider for total joint arthroplasty.<sup>20</sup> Other studies have identified board certification, reputation or prestige of the surgeon or hospital, in-network provider service and bedside manner as factors that influence a patient's surgeon selection.<sup>7–9</sup> These are largely United States-based studies and may reflect factors associated with the local healthcare system and training structures, thereby limiting the generalisability of results. The addition of the findings in this study, in combination with the known literature, suggest that surgical training frameworks should focus on developing interpersonal skills and communication. Some initiatives have already been undertaken by surgical colleges, including mandatory requirements for completion of professional communication courses.<sup>38</sup>

Participants in this study assigned lower importance to surgeon participation in professional and medical community activities including research, training, teaching and continuing professional development. This is in contrast to the emphasis placed on these activities by surgical training colleges, many of which have mandatory requirements for research and professional development of the surgeon. Failure to involve patients actively in research may provide an ongoing disconnect between the relative value of research from the surgeon and patient perspective. This may explain why our patients rated this professional quality of lesser importance to them. While the health care system shifts towards patient-centred care models, research models have been slower to progress in the same direction, where research has continued to be carried out on patients, but not with patients. Other studies have identified barriers in recruiting patients to clinical studies include time constraints, lack of interest, and lack of awareness. Improving patient understanding of the importance of clinical research and continuing education could be considered in future study.

Ideally, the priorities for professional values of the patient should match those held by the surgeon in order to establish an effective therapeutic relationship. Indeed, the professional values found to be most desirable in this study parallel those found in a previous study of investigating surgeons' perception of the RACS competencies and their relative importance. It was identified that surgeons value the professional qualities most attributable to individual skill, such as communication and decision making rather than competencies pertaining to skills such as scholarship, teaching and responding to community needs. This suggests that patients and surgeons value professional attributes similarly, and therefore the need for surgeons to demonstrate these competencies across and throughout their training is vital. It is, however, important to recognise that surgical competency is multifaceted, and skills pertaining to community or cultural needs and scholarship are typically considered to be of equal importance to surgeon development and professionalism.

The present study has several limitations. Firstly, selection bias may be introduced by recruiting patients from a single public hospital serving a relatively homogeneous patient population. The results may be different if the study was conducted in the private setting or

more diverse population groups. Secondly, there is potential for response bias. Participants may moderate their answers to reflect socially acceptable views, therefore the preferences expressed in the survey may be different to the participants' actual preferences. Finally, as an exploratory study the questionnaire was designed from comprehensive review of the available literature but future work should be directed at standardising and validating tools to assess patient preferences.

Despite these limitations, this study provides new insight into the patient perspective particularly within the Australian community and orthopaedic field. There were a large number of responses from patients who were awaiting orthopaedic evaluation and therefore the responses reflect ecological validity, providing a useful insight into the qualities patients value in their surgical care providers. In a system of competency-based training, studies such as this are useful to understand how the community considers such qualities of surgical competency, particularly when compared with importance surgeons place on similar qualities. Further studies on patient perceptions particularly regarding medical research and scholarship may be of use, particularly given the high importance assigned within most surgical training programmes and the relatively slow transition into the patient-centred care model within the field of medical research.

## **Conclusions**

In conclusion, Australian orthopaedic patients highly value a surgeon who is both technically competent and an empathic and proficient communicator. They are less concerned about surgeon involvement in research and teaching, or their age and gender. This work can form the basis of future study to further understand what patients want from their orthopaedic surgeon and to shape surgical training to reflect this.

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# Appendices

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# **Tables**

Table 1: Participant characteristics and surgeon preferences (n = 174)

PATIENT PREFERENCES IN ORTHOPAEDIC SURGERY

n (%) Surgeon preference (age): No preference 109 (62.6) 30-39 years 13 (7.5) 40-49 years 29 (16.7) 50-59 years 11 (6.3) 60-69 years 1 (0.6) > 70 years 1 (0.6) female, n (%) male, n (%) No preference, n (%) Surgeon preference (gender) Non-specific procedure 169 (97.1) 5 (2.9) 0(0.0)Total hip replacement 5 (2.9) 2 (1.1) 162 (93.1) Carpal tunnel release 1 (0.6) 165 (94.8) 3 (1.7)

‡n = 164, †n = 169

# 377 Figures

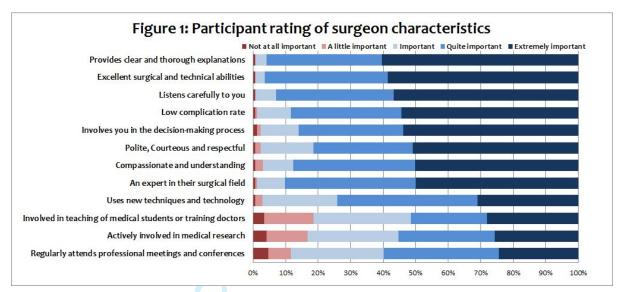


Figure 2 Word cloud of free-text responses regarding patient preferences



#### Questionnaire: Patient Expectations of Orthopaedic Surgeons

You have been asked to participate in this study because you are attending the Orthopaedic Outpatient Department. We are undertaking a study to determine what qualities and characteristics patients value in their orthopaedic doctors so that we can provide a better service for our patients.

This survey is voluntary and you are not under any obligation to participate. Your decision to participate will not affect your treatment, relationship with your treating doctor, or relationship with the Gold Coast Hospital and Health Service. Submitting a completed questionnaire is an indication of consent to participate in the project.

Any complaint will be investigated promptly and you will be informed of the outcome.

# Please complete the following questions and return this form to the receptionist before you leave.

Whatis	yourgende	r (please circle)?	Male	Female	Other
How old	d are you? _				
Whatis	your postco	ode?			
		rence for the gende No preference	r of your ortho	paedic surgeon	for your clinic visit?
Why?_		****			
		re having a Total Hip ve a preference for t	[2] [1] 이 시간 시간 중요 전 시간 [2] [2] [4] [4] [4] [4] [4] [4] [4] [4] [4] [4	강강하는 맛이네네 얼마나 얼마나 아이를 다 가다.	our hip. In this
		No preference			
Why?_					
Release	e). In this situ	re having surgery to lation, do you have a No preference		0.00	
Why?					

Please turn over

50-5	59 6	0-69	>70					
Please indicate how important the following professional and personal attributes are to you when you see an Orthopaedic Surgeon:								
Not at all	A little	Important	Quite Important	Extremely				
mportant	mportant		mportant	mportan				
	ien you see	Not at all A little	Not at all A little Important	Not at all A little Important Quite				

Thank you for participating in our study

From the list above, which single attribute to consider to be *the least important*?