# ORIGINAL RESEARCH Patient Preferences in Shared Decision Making During Healthcare and Associated Factors Among Adult Admitted Patients at Public Hospitals of West Shoa Oromia, Ethiopia

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Background: Patient preferences mean the choices of individuals to make decisions about health and medical treatment by using their own experiences, beliefs, and values. The aim of this study was to assess patient preferences in shared decision making during healthcare and associated factors among adult admitted patients at public hospitals of West Shoa Oromia, Ethiopia.

Methods: A cross-sectional study was carried out among adult admitted patients at public hospitals of West Shoa Oromia, Ethiopia. An interviewer-administered with the Control Preference Scale questionnaire instrument tool was used to assess patient preferences in shared decision making. All statistical analysis was performed using SPSS for windows program version 21.

Results: A total of 403 respondents participated. Out of the total respondents, 168 (41.7%) were females. Overall, 64.8% (n=261) of the respondents prefer a collaborative role in shared decision making. Age (AOR 4.11, 95% CI 2.21–7.64), marital status (AOR 0.37, 95% CI 0.20–0.68), and education level (AOR 2.45, 95% CI 1.13–4.87) are significant in patient preference in shared decision making. **Conclusion and Recommendation:** More than half of respondents 261 (64.8%) prefer shared decision making in a collaborative role with healthcare providers. Age, marital status, and level of education are factors associated with the patient preferences in shared decision making. The Ethiopian ministry of health should work on policy of shared decision making. Healthcare providers have to consider patients in shared decision making.

Keywords: patient, patient preferences, admitted patients

#### Introduction

Patient preferences mean the choices of individuals to make decisions about health and medical treatment by using their own experiences, beliefs, and values.<sup>1</sup> The choices and preferences are not left to the patients; there needs to be a shared decision making process between patients and healthcare providers.<sup>2,3</sup> The shared decision making efficacy is limited by the impossibility to clearly define the course of action, and the informed ideal, in which the healthcare providers provide information to the patient who is in charge of making decisions.<sup>2,4</sup> The know-how coming from patients and healthcare providers on each part cannot replace the other. So, as to specifics. In shared decision making, despite the fact that the healthcare providers have an expertise in diagnosis, prognosis, and treatment options, patients are experts in their medical history, values, preferences, and areas.<sup>5</sup> The majority of patients recognized their healthcare providers that a decision needs to be made and the availability of different options. However, the level of shared in treatment decision making process was low.<sup>6</sup>

Patients wanted their family to be involved in shared decision making; however, patients' expectation and healthcare providers' perception of patients' role preference have a gap. Therefore, healthcare providers should actively involve patients in shared decision making in their daily clinical practice.<sup>7</sup>

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Nowaday's patient-centered care approach has importance in patients' contribution and in the medical decision making process. The increase of patient activity within their own care process comes from elements that can be considered as enablers of shared decision making.<sup>8-10</sup>

Incorporating and understanding individuals' preferences for participating in healthcare decisions are the bases in delivering patient-centered care.<sup>11,12</sup>

Communication is an important asset for shared decision making.<sup>13</sup> Patients are asked to engage in informed discussion of the risks, benefits, and alternative interventions and decide between them for the elicited preferences.<sup>14,15</sup> The patients benefit from their contribution and the shared decision making process by identifying preferred option through a bidirectional communication process.<sup>16–18</sup>

In general, patient preferences in shared decision making have clinical significances. Patients who collaborate with their healthcare providers to reach a shared healthcare decision have greater trust in the healthcare providers–patient relationship, collaborate more fully to implement the shared decision, and express greater satisfaction with their health care. Research has shown that patients with chronic diseases, such as hypertension, diabetes mellitus, peptic ulcer disease, and rheumatoid arthritis, enjoy better health outcomes when they ask questions, express opinions, and make their preferences known.<sup>1</sup> The aim of this study was to find patient preferences in shared decision making during healthcare and associated factors among adult admitted patients at public hospitals of West Shoa Oromia, Ethiopia.

# **Methods**

#### Study Design and Participants

A cross sectional study was conducted at four hospitals that are found in West Shoa zone of Oromia regional state. Those hospitals are Ambo University referral hospital, Ambo general hospital, Gedo hospital and Inchini hospital. All adult (18 years or older) admitted patients at medical and surgical wards in selected hospitals were included except those who were seriously ill during data collection. The total sample calculated was 422. The total sample was allocated proportionally to the hospitals depending on the number of admitted patients at medical and surgical wards. Accordingly, 148 patients from Ambo University referral hospital, 127 from Ambo general hospital 84 from Gedo hospital, and 63 from Inchini hospital were selected by systematic sampling technique.

# Instruments (Measures) and Data Collection

The questionnaire was translated from English to Afaan Oromo and Amharic languages by a multilingual translator before data collection, and then back translated to English by another multilingual translator after data were collected. The standardized questionnaire was pre-tested, and the internal consistency of the question was evaluated and the Cronbach's alpha value was 0.78. The patient preferences in shared decision making were measured using the Control Preference Scale questionnaire.<sup>7</sup> A 5-point Likert scale on shared decision making was used. Scored were recorded as strongly agree with 5, agree with a 4, neutral with a 3, disagree with a 2, and strongly disagree with a 1. The mean score for the 6 items was then calculated for each participant, with a maximum of 5 and a minimum of 1. Collaborative role was considered for which individuals make decisions together with their healthcare providers (mean score  $\leq$ 4).<sup>12</sup> The data were collected by interviewer.

Training was given for the data collectors to warrant that all the data collectors have the same information about the study instrument and have the same interview procedures. The training includes about the purpose of the study, confidentiality, and how to approach and forward questions to patients. The data collectors were BSc healthcare providers. During data collection there has been strict supervision.

# Statistical Analysis

The analysis was done using Statistical Package for the Social Sciences (SPSS) statistical software version 21.0. Bivariate and multivariate analyses using logistic regression were computed to assess association between the independent variable (socio-demographic characteristics) and patient preferences (the outcome variable). Independent variables

with P < 0.2 on bivariate logistic regression were used for multivariate analysis. The statistical level significant is set at alpha of 0.05. The data were described and presented using narrative text, figure, and tables.

# Results

### Socio-demographic Characteristics of Respondents

A total of 403 respondents participated. The response rate was 95.5. Out of the total of respondents, 168 (41.7%) were females. About 111 (27.5%) of the respondents were belonging to the age group 20-39 years (Table 1).

#### Patient Preferences of Respondents

More than half of the respondents prefer making a shared decision collaborative role 261 (64.8%) with their healthcare providers, whereas the rest of respondents were passive 142 (35.2%) and they prefer to leave decisions to healthcare providers.

### Factors Associated with Patient Preferences

Those variables that had association with patient preferences with *p*-value less than 0.2 in the simple logistic regression analysis were taken to multiple logistic regression analysis.

The odds of a collaborative role patient is 4.11 times among patients with age >60 years as compared to age 20–39 years (AOR 4.11, 95% CI 2.21–7.64). Those respondents married were 63% less likely to have collaborative role patient preferences in shared decision making than those single (unmarried) (AOR 0.37, 95% CI 0.20–0.68). Those respondents who are above grade 12 were 2.35 times more likely to have collaborative role patient preferences in shared decision making (AOR 2.45, 95% CI 1.13–4.87) compared to those not read and write respondents (Table 2).

Variable	Category	Frequency (n=403)	Percent
Age	20–39	111	27.5
	40–59	164	40.7
	≥60	128	31.7
Sex	Male	235	58.3
	Female	168	41.7
Marital status	Single	109	27.0
	Married	253	62.8
	Divorced	15	3.7
	Widowed	26	6.5
Education	Not read and write	56	13.9
	Read and write	33	8.2
	Primary (1–8)	119	29.5
	Secondary (9–12)	102	25.3
	Tertiary (above 12)	93	23.1

Table ISocio-Demographic Characteristics of Respondents in Selected PublicHospitals of West Shoa Zone, Oromia, Ethiopia, 2020

Abbreviation: n, total number of respondents.

Variable	Patient Preference		Crude Odds Ratio	Adjusted Odds Ratio
	Passive	Collaborative Role	(COR, 95% CI)	(AOR, 95% CI)
Age		·		
20–39	59	52	I	I
40–59	45	119	3.00 (1.81-4.98)	4.75 (2.58-8.74)*
≥60	38	90	2.69 (1.58-4.57)	4.11 (2.21–7.64)*
Sex				
Male	74	161	1	1
Female	68	100	0.68 (0.45–1.02)	0.71 (0.44–1.13)
Marital status		•	·	·
Single	35	74	I	I
Married	92	161	0.83 (0.51–1.33)	0.37 (0.20-0.68)*
Divorced	3	12	1.89 (0.50–7.14)	0.90 (0.22–3.77)*
Widowed	12	14	0.55 (0.23–1.32)	0.23 (0.09–0.63)*
Education				
Not read and write	26	29	I	I
Read and write	16	17	0.95 (0.40–2.26)	0.98 (0.39–2.49)
Primary (1–8)	44	75	1.53 (0.80–2.92)	1.48 (0.75–2.90)
Secondary (9–12)	29	73	2.26 (1.14-4.46)	2.34 (1.14–4.77)*
Tertiary (above 12)	27	67	2.23 (1.11–4.45)	2.35 (1.13-4.87)*

**Table 2** Factors Associated with Patient Preferences of Respondents in Selected Public Hospitals of WestShoa Zone, Oromia, Ethiopia, 2020 (n=403)

Notes: \*P<0.05; 1, reference; n, total number of respondents.

# Discussion

Patient preferences in shared decision making are important in looking for their expression, which the healthcare providers should consider in treating the patients such as fears, imaginations, or unusual beliefs.<sup>1</sup> Involving patients in the shared decision making process allows them to their specific needs, values, and preferences,<sup>10,19</sup> even though not all patients wish to collaboratively participate in health-related decisions to the same extent.<sup>20</sup> About 91% of respondents agree that encouragement from healthcare providers would motivate their participation in shared decision-making.<sup>6</sup> Communicationcan be a barrier to share decision-making; some patients from disadvantaged cultural backgrounds are not used to participating in shared decision making.<sup>21,22</sup>

This study aimed to assess patient preferences in shared decision making and associated factors among adult admitted patients at public hospitals of West Shoa Oromia, Ethiopia. Accordingly, this study identifies that 64.8% of patients prefer to involve collaborative preference in shared decision making. This indicated that the remaining 35.2% prefer passive preference in shared decision making. This study also identify that patient preferences were significantly associated with age, marital status, and education level.

The results of this study are similar to Ambigapathy et al; shared decision making (collaborative) was preferred by 51.9% of patients, followed by passive (26.3%) and active (21.8%) roles in decision making.<sup>7</sup> In another study by Mah et al, 51.4% of respondents preferred a collaborative role with their healthcare providers, 44.8% preferred a passive role

while only 1.9% preferred an active role. Most patients preferred a collaborative role (57.5%), followed by a semi passive (21.2%), a partly autonomous (16.2%), an autonomous (2.8%) and a fully passive (2.3%) role when making medical decisions.<sup>23</sup>

In this study, those married women were 63% less likely to have collaborative patient preferences in shared decision making. This may be because marital status need a joint decision either with husband or wife. This can be evidenced by the study done Chang et al,<sup>24</sup> joint decision making by a married or cohabitating couple, one of the most prevalent social relationships globally. This may reflect growing equality and partnership between men and women when viewed against historical and traditional norms of men having decision making authority.<sup>24</sup>

Regarding which factors are associated with patient preferences in a shared decision making process, our findings are in line with other studies, which found age, education to be significantly associated with the desire to participate in health decisions.<sup>6,22,23</sup> However, we found no significant differences between different sex, unlike other studies.<sup>23,25,26</sup> Having a high response rate and usage of a standardized questionnaire are the strengths of this study. It also used baseline information for future studies of that area. The study has limitation concerning social desirability bias and cross-sectional study design.

#### **Conclusion and Recommendation**

More than half of respondents (64.8%) prefer making shared decisions collaboratively with their healthcare providers. Age, marital status, and level of education are factors associated with the patient preferences in shared decision making. The Ethiopian ministry of health should work on a policy of shared decision making. Healthcare providers have to consider patients in shared decision making. Future work that is expected from researchers is an interventional study and identifying the pathway by which cultural backgrounds and diagnosis may affect the degree of patient preference in shared decision making.

#### **Data Sharing Statement**

Data will be available from the corresponding author on reasonable request.

# **Ethical Considerations**

The research was reviewed and approved by an Institutional Review Board of Ambo University. The authorities found in the study area were given permission to conduct research. The study was conducted according to the Declaration of Helsinki. Participants of this research were provided written informed consents. Patients' privacy and confidentiality were maintained at all durations.

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# Disclosure

The author declares no conflicts of interest for this work.

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