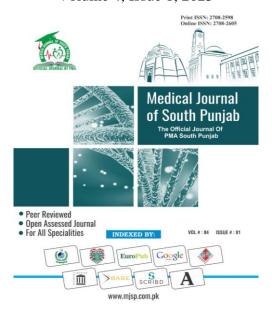
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Trend and Reasons of Women Towards the Choice for Place of Delivery: Evidence from mics 2017-18 Punjab, Pakistan

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Medical Journal of South Punjab Volume 4, Issue 1, 2023; pp: 44-50 **Original Article**



Trend and Reasons of Women Towards the Choice for Place Of Delivery: Evidence from Mics 2017-18 Punjab, Pakistan

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ABSTRACT

Objective: The present study aimed to To assess the trend and reasons of women towards the choice for place of delivery based on (MICS) 2017-18, Punjab, Pakistan.

Methods: This observational study was conducted at 36 districts of Punjab, Pakistan from 2017-18. A total of 53,840 households were drawn as the sample size from 2,692 sample clusters, out of which 1,893 were rural clusters and 799 were urban clusters. From 53,840 households, 52,765 households occupied and 51,660 were successfully interviewed. Further, 79,510 women were eligible for interview age group 15-49 years, 74,010 women were interview successfully. There were 26,980 women who had ever or currently married, and 15,656 women gave birth in the last two years. The outcome variable was place of delivery and exposure variables were socio-demographic and socioeconomic characteristics. Chi-square test was applied to identify the association by using SPSS. P-value≤0.05 was considered as significant.

Results: There were (43.5%) private sector deliveries, (29.7%) public sector hospitals, and (26.4%) home deliveries. Urban women more likely to choose public sector hospitals for delivery OR=1.02 (0.94-1.09) 95% CI, p<0.010. The women of South and Central Punjab are more likely to choose private sector hospitals for delivery, OR=1/0.535=1.87 (0.478-0.600)95% CI, p<0.010.

Conclusion: Overall women prefer delivery process in private sector particularly urban women. It may be the facilities present in private sector hospitals in urban areas or healthcare facilities are not accessible especially in rural areas. In modern era, some women still prefer home delivery.

Keywords: Attitudes, Reasons, Women, Choice, Place of Delivery, Rural, Urban

1. INTRODUCTION

The maternal mortality rate (MMR) in Pakistan is 276 deaths per 100,000 live births¹. Pakistan is the fifth-largest contributor to maternal mortality, and six per cent of the world's maternal deaths occur in Pakistan². Only in 2013, around 289,000 women died due to pregnancy-related complications in Pakistan. In view of the risk factors involved in maternal mortality, an international effort has focused on increasing the share of births at the proper health facilities (institutional deliveries) or the births attended by skilled birth attendants³.

About 50 per cent of births in Pakistan take place at home, mainly with the help of untrained birth attendants⁴. The major reason for the home deliveries in Pakistan is found to be the limited role of women in decision-making at the household level, as well as their lower educational status and smaller control over the resources⁵. Some other determinants of the choice of place of delivery are distance to the health care facility, transportation facility, cost of institutional delivery, trust in health attendants and exposure to mass media⁶⁻⁸.

also found It is that women's preference for home deliveries is also shaped by their past experience of the poor health system, which includes poor availability of drugs, incompetent health workers, and lack of privacy and rude attitudes of health attendants⁹. Furthermore, a study in Pakistan found that mothers' and fathers' education has a significant impact on the decision about the place of delivery⁶. The current study is based on the data collected via (MICS) 2017-18, which was designed for all 36 districts of Punjab, including rural and urban areas, to estimate a large number of indicators about children and women of Punjab.

2. METHODOLOGY

To estimate children and women health indicators, the MICS 2017-18 was designed for 36 districts of the Punjab, rural and urban. Two-stage stratified cluster sampling was adopted. District's rural and urban areas were the first strata, and the households were the second stage.

A total of 53,840 households were drawn as the sample size from 2,692 sample clusters, out of which 1.893 were rural clusters and 799 were urban clusters. From 53,840 households, 52,765 households occupied and 51,660 were successfully interviewed. Further, 79,510 women were eligible for interview age group 15-49 years, 74,010 women were interview successfully. There were 26,980 women who had ever or currently married and 15,656 women gave birth in the last two years. The outcome variable was place of delivery and exposure variables were socio-demographic and socioeconomic characteristics. Chi-square test was applied to identify the association by using SPSS. P-value<0.05 was considered as significant.

3. RESULTS

Table I represents the socio-demographic

Table I: Socio-demographic and socioeconomic characteristics of the women who gave live birth in the last two years with respect to the place of delivery

Variable			Total			
		Public	Private	Home	Other	15,656
		4,653	6,816	4,134	53 (0.3%)	
		(29.7%)	(43.5%)	(26.4%)		
Area	Urban	1,644	2,653	930 (17.7%)	30 (0.6%)	5,257
		(31.3%)	(50.5%)			
	Rural	3,009	4,163	3,204	23 (0.2%)	10,399
		(28.9%)	(40.0%)	(30.8%)		
Region	South	1,210	1,951	1,983	14 (0.3%)	5,158
of the		(23.5%)	(37.8%)	(38.4%)		
Punjab	Central	2,382	3,806	1,649	24 (0.3%)	7,861
		(30.3%)	(48.4%)	(21.0%)		
	Norther	1,061	1,059	501 (19.0%)	15 (0.6%)	2,636
	n	(40.3%)	(40.2%)			
Mother's	<15	187	240	352 (45.0%)	3 (0.4%)	782
age		(23.9%)	(30.7%)	,		
(years) at	15-20	2,182	2,838	2,247	23 (0.3%)	7,290
1 st marria		(29.9%)	(38.9%)	(30.8%)		
ge	21-25	1,653	2,623	1,182	15 (0.3%)	5,473
		(30.2%)	(47.9%)	(21.6%)		
	26-30	531	928	290 (16.5%)	9 (0.5%)	1,758
		(30.2%)	(52.8%)			
	>30	100	188	62 (17.6%)	2 (0.6%)	352
		(28.4%)	(53.4%)			
Ever	Yes	3,085	4,901	1,522	34 (0.4%)	9,542
attend the		(32.3%)	(51.4%)	(16.0%)		
school	No	1,569	1,915	2,611	19 (0.3%)	6,114
		(25.7%)	(31.3%)	(42.7%)		
Educatio	None/pr	1,650	2,005	2,690	20 (0.3%)	6,365
n	eschool	(25.9%)	(31.5%)	(42.3%)		
	Primary	1,024	1,303	793 (25.4%)	6 (0.2%)	3,126
	•	(32.8%)	(41.7%)			
	Middle	585	788	280 (16.8%)	9 (0.5%)	1,662
		(35.2%)	(47.4%)			
	Seconda	739	1,250	251 (11.2%)	8 (0.4%)	2,248
	ry	(32.9%)	(55.6%)		<u> </u>	
	Higher	655	1,469	119 (5.3%)	10 (0.4%)	2,253
		(29.1%)	(65.2%)			
Wealth	Poorest	850	849	1,725	10 (0.3%)	3,434

index		(24.8%)	(24.7%)	(50.2%)		
quintile	Second	915	1,139	1,055	2 (0.1%)	3,111
		(29.4%)	(36.6%)	(33.9%)		
	Middle	1,011	1,458	702 (22.1%)	11 (0.3%)	3,138
		(31.8%)	(45.8%)			
	Fourth	1,045	1,554	469 (15.2%)	12 (0.4%)	3,080
		(33.9%)	(50.5%)			
	Richest	833	1,816	183 (6.4%)	18 (0.6%)	2,850
		(29.2%)	(63.7%)			
Antenatal	Yes	4,272	6,498	3,084	33 (0.2%)	13,887
care		(30.8%)	(46.8%)	(22.2%)		
	No	381	318	1,050	20 (1.1%)	1,769
		(21.5%)	(18.0%)	(59.4%)		
Number	None	381	318	1,050	20 (1.1%)	1,769
of		(21.5%)	(18.0%)	(59.4%)		
antenatal	1-3	1,624	1,856	2,014	11 (0.2%)	5,505
care		(29.5%)	(33.7%)	(36.6%)		
visits	4+	2,624	4,585	1,056	22 (0.3%)	8,287
	visits	(31.7%)	(55.3%)	(12.7%)		
	Missing	24	57	14 (14.7%)	0 (0.0%)	95
	/DK	(25.3%)	(60.0%)			

Source: Author's Own Calculation

and socioeconomic factors of the 15,656 women who gave live births in the last two years with respect to the place of delivery. (43.5%)private There were sector deliveries, (29.7%) public sector hospitals, and (26.4%) home deliveries. There were (50.5%) of urban women delivered babies in the private sector. In south Punjab, (38.4%) women choose home delivery, while, in central and Northern Punjab, the private sector deliveries were(48.4%) and (40.2%), respectively. The age of marriage, school education, wealth index quintile and antenatal care set the trend of women toward the private sector for deliveries. (Table I).

In Table II, Place of delivery was

positively associated with area of residence, regions of Punjab, education status of the mothers, age at first marriage, socio-economic status and antenatal care visits. (Table II).

4. DISCUSSION

The Study shows the strong association of place of delivery with socio-demographic and socio-economic characteristics. These factors put substantial impact on the changing of place of delivery in the Punjab. Thesefindings are similar wit findings of Wagle et al¹⁰ and Bolam et al.¹¹. Much parallel findings were observed in previous studies where authors found thatagrarian are 1.5 times more chances to give birth in

home as compare public sector health facilities

Table II: The hypothesis and testing

Sr.#	Hypothesis	Chi-	D.F	P-	Result
		square		value	
		value			
1.	There is no association between the area of residence of	333.95	3	0.000	Associated
	mother and the place of delivery				
2.	There is no association between the regions of the Punjab	686.45	6	0.000	Associated
	and the place of delivery				
3.	There is no association between the mother's age at first	424.61	12	0.000	Associated
	marriage and place of delivery				
4.	There is no association between the education of women	1851.68	12	0.000	Associated
	and the place of delivery				
5.	There is no association between the wealth index of	2088.51	12	0.000	Associated
	women and place of delivery				
6.	There is no association between the number of antenatal	2280.78	9	0.000	Associated
	care visits and the place of delivery				

than the mother who are not working¹². Talking about the women empowerment, the pregnancy-related issues with their husbands, significantlyimpacts to choice the place for delivery. The women who discusse with her husbands are 0.34 times low chances to give birth the baby in home than their counterparts having notliberty to expose this matter with her husbands¹⁰.

These results concur with Shah et al¹³ and Tabatabaie et al¹⁴ Moreover, those womenwho do not pay heed about the place of delivery with their husbands are more likely to deliver babies at home^{12, 15, 16}. Control variable, including the age of mothers, is the leading factor for the choice of the place of delivery. Further, the mothers who has age group (15 - 24 years) are prone to give birth the baby at home than the older mothers¹⁷. It was found that the region, place of residence and living status of women also led impact on the place of delivery. The education status of

the mother has positive impact on

the choice for place of delivery, as reported previously (p<0.010; OR 0.683; 95%; CI $0.580 - 0.804)^{18}$. The women education status have middle or above are atmost 0.3 times low chances to deliver the baby in home as as compared to uneducated women (p<0.010; OR 0.334; 95%; CI0.267-0.419) ¹⁸. Father education status is also a leading factor to choice the place for delivery of their wives. The educated fathers have 0.91 less chances to choose home for givingbirths than uneducated fathers, (p<0.010; OR 0.757; 95%; CI 0.636-0.901)¹⁸. (This is repetitive discussion: agrarian mothers information has already discussed).

The living status of mothers led a great impact on the choice to deliver their babies. It was found the mothers belongs to the high socio-economic status have low chances to give birth their babies at home as compare the the low socio-economic

status mothers as 2.63 times (p≤0.000;OR 2.634; 95%; CI 2.181-3.182)a woman have more chances to give birth her baby in home as compare to the public health sector, however it is pertinent to mention that same results were shown by Bustreo et al.¹⁷.

In the Punjab, the health facalities are very costly which may casue to deliver baby at home. Our findings revealed that there is a negative impact on the empowerment of women in home birhs. This findings supported of Hussain et al¹⁸. As traditional trend , shows rural-women are higher chances to give birth in home as compare to the urban women.

5. CONCLUSION

The women prefer delivery process in private sector particularly urban women. It may be the facilities present in private sector hospitals in urban areas or healthcare facilities are not accessible especially in rural areas. In modern era, some women still prefer home delivery. Finally, the maternal care and child-care awareness campaigns should be began to improve the knowledge about delivery and child health, free of cost.

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