

# **'Extensive gender discrimination in healthcare access' for women in India, suggests study**

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Women in India face "extensive gender discrimination" in access to healthcare, suggests a study of outpatient appointments at one major

tertiary care hospital in Delhi, and published in the online journal *BMJ Open*.

Younger (30 and below) and older (60 and above) [women](#) and those living furthest away from the [hospital](#) were most likely to miss out.

The findings prompt the researchers to call for "systemic societal and governmental action to correct this gender discrimination."

Previous research on gender discrimination in developing countries has largely focused on the higher death rates among women compared to men. And unreliable data have primarily hindered systematic study of [gender discrimination](#).

In a bid to rectify this, the researchers drew on 2,377,028 outpatient clinic appointments for all departments except obstetrics and gynaecology at a large public tertiary care hospital in Delhi in 2016.

They wanted to see if there were any [gender differences](#) in access and whether a patient's age and distance from the hospital might have any bearing on this.

Outpatients were split into five age groups: 0-16 years; 19-30; 31-44; 45-59; and 60 and above. More than 90% of them travelled from Delhi and three adjoining states: Haryana; Uttar Pradesh; and Bihar.

A total of 882,324 people visited the outpatient departments of the hospital an average of 2.69 times in 2016, adding up to a total of 2,377,028 visits.

The researchers calculated the number of 'missing' patients by looking at the difference between the actual number of women who visited the hospital and those that should have come, had men and women visited in

the same proportions as the [sex ratio](#) of the overall population would suggest, based on the 2011 census.

Almost two thirds (63%) of these visits were made by male patients, with a total of 1,494,444 visits compared to 882,584 (37%) visits by female patients, equivalent to a sex ratio of 1.69.

This is significantly greater than the overall sex ratio of the population of 1.09, say the researchers.

After adjusting for different hospital departments, they estimated that nearly twice as many hospital visits were made by men and boys as were made by women and girls in the younger age groups, with sex ratios of 1.93 and 2.01 for 0-18 year olds and 19-30 year olds, respectively.

The ratio fell to 1.43 and 1.4 for those aged 31-44 and 45-59, respectively, but rose again to 1.75 for those aged 60 and above.

This U-shaped curve was the same for patients from all four locations.

After taking account of age and hospital department, the overall sex ratio increased with distance from the hospital: 1.41 for Delhi; 1.70 for Haryana, the neighbouring state, 1.98 for Uttar Pradesh, a state further away; and 2.37 for Bihar, the state furthest away from Delhi.

Comparing the total number of actual visits to those that should have taken place based on the population sex ratio, 402,722 female outpatient visits were 'missing' from these four locations—nearly half (49%) the actual number, calculate the researchers.

This is an observational study, and as such, can't establish cause. The study also relied on data from one hospital and so may not have covered all referrals from each state, including women from more distant states

who might have preferred to use [healthcare facilities](#) closer to home.

Nevertheless, the findings suggest "extensive" discrimination in access to healthcare, with younger and [older women](#) and those living further away from the hospital, especially likely to miss out.

"This calls for systematic societal and governmental action," say the researchers, who go on to say that their study "has important implications for gender-related health policy which has so far focused on maternal health."

They conclude: "The findings suggest local healthcare infrastructure should be strengthened, with the biggest beneficiaries being younger and older women who are most neglected and discriminated against."

**More information:** Missing female patients: an observational analysis of sex ratio among outpatients in a referral tertiary care public hospital in India, *BMJ Open* (2019). [DOI: 10.1136/bmjopen-2018-026850](https://doi.org/10.1136/bmjopen-2018-026850)

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