Case Report

**Older female relatives of Covid19 patients have an unsatisfactory perception of emergency room performance by clinical staff**

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**Abstract**

Satisfaction levels in relatives of suspected Covid-19 cases during hospital admission to an emergency department have not previously been reported. A prospective observational study was conducted using the CAT-T questionnaire to describe educational level, age, and gender differences in 1201 relatives of suspected Covid-19 patients admitted to an emergency room between 21 February and 31 December 2020. Increased CAT-T scores, indicating low levels of satisfaction, were observed in older female relatives with low education levels (p<0.01). These observations suggest that lack of accessible information during the Covid19 pandemic can be a key aspect of anxiety not only in patients but for relatives, especially older women, and emphasizes the need for proactive communication.

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**Keywords.** COVID-19 pandemic, satisfaction of relatives, age, gender, education, communication

No studies have reported the satisfaction level in relatives of suspected Covid-19 cases during hospital admission to an emergency department. A prospective observational study was conducted at the Marcianise Hospital, ASL Caserta, Italy. The Ethics Committees Campania Nord approved it. All participants signed a consent form to be interviewed. A total of 1500 relatives of suspected Covid-19 patients were enrolled between February and December 2020. The database included demographic characteristics, educational level, clinical outcome, age, and gender, with 148 relatives less than 18 years old and 151 patients without information on education level being excluded. Educational level was classified as high (a bachelor's degree or higher), medium (graduated from high school or middle school), or low (graduated from elementary school or no education). The questionnaire CAT-T [1] included clinical history, age, sex, nationality, educational level, and triage code. Additional exclusion criteria included relatives with neuro-psychiatric diseases and psychological instability. A descriptive analysis was used to compare the demographic and clinical characteristics of relatives with low, medium, and high levels of education. This included age, sex, medical history, and health behaviors. The t2 test was used to compare categorical variables with higher scores indicating decreasing satisfaction.

Results showed that the CAT-T score was significantly higher in females compared to males (p<0.001), and was significantly increased in relatives 65 years and older compared to under 65 years old (p< 0.01). When compared by educational level and age, the CAT-T score was significantly increased in older relatives with a low educational level (p< 0.01). These observations suggest age, gender differences and educational level play a role in the satisfaction of relatives of suspected Covid-19 cases seen in an emergency room setting. In particular, older, less educated female relatives were likely to have an unsatisfactory perception of the way the Covid19 case was handled in the emergency room. Interestingly, a recent study showed that male and younger Covid19 patients were more suspicious of possible clinical mistakes, but that the satisfaction level of patients increased with the level of education [2]. It is therefore crucial to provide guidance on how to communicate with patients and relatives, since lack of accessible information during the Covid19 pandemic can be a key aspect of anxiety. In this regard, increased awareness of clinicians and emergency room staff to more fully communicate aspects of Covid19 illness not only to patients but also to close relatives would help increase satisfaction, decrease anxiety, and decrease potential for complaints [3, 4].

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