BURNOUT SYNDROME AMONG MEDICAL COLLEGE FACULTIES IN CHENNAI- A CROSS-SECTIONAL STUDY

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ABSTRACT

BACKGROUND
Burnout is a stress-induced problem commonly found among human service professionals which is characterised by emotional exhaustion, a reduced sense of personal accomplishment and depersonalisation. This study was undertaken to assess the professional burnout and its covariates among medical professionals working in a Medical College, Chennai.

MATERIALS AND METHODS
It is a cross-sectional study done among 250 faculties working in a private medical college in Chennai. The prevalence of burnout was assessed using self-administered Oldenburg’s burnout inventory (OLBI), which is free to use and internationally validated. A pre-tested Structured Questionnaire was used to assess the factors associated with it and the coping strategies employed. Binary logistic regression analysis was done to calculate adjusted odds ratio to assess association between burnout and the covariates.

RESULTS
Among the 250 participants, 128 were women and 122 were men with the mean age of 31.9 ± 10.8 years. 42% belonged to medicine-allied fields, 36.4% surgery allied and 21.6% were from pre- and para-clinical department. Among the study group 27.2% experienced burnout, the majority being doctors in medicine allied fields (29.81%). The study showed that prevalence of burnout was higher among women, those suffering from inadequate sleep, those who do not communicate effectively and those unable to deal with anger/failures. Higher professional burnout was also seen among doctors undermined by colleagues or superiors and those who were unsatisfied with their income. In contrast, marriage seems to be a protective factor with those married having 0.78 times lesser risk of being burnt out.

CONCLUSION
Professional burnout is a serious issue, which unless properly addressed may impair their quality of life.

KEYWORDS
Professional, Job Stress, Anxiety, Mental Health, Teaching Faculty.


BACKGROUND
In this age of globalisation, every job is stressful. But those in the medical profession have to deal with immense loads of stress on both the professional and personal front. Doctors have to cope with certain unavoidable stressors, such as the death of their patients or the inability to cure them or relieve them of their suffering. But there are certain workplace stressors such as work organisation, financial issues, administration, interference with family and social life, relationship with superiors and colleagues and work demand,[1,2,3] which are major contributing factors towards an under-represented emerging lifestyle disease, i.e. the Burnout Syndrome.[4]
its nature, the lack of awareness and our failure to detect it easily and quickly burnout can be a significant problem in the medical field. It needs to be addressed promptly, especially in India where the burden of healthcare is dependent upon a limited number of doctors, most of them overworked and underpaid.

Globalisation, modernisation, privatisation and liberalisation have brought tremendous improvements in the quality of life. At the same time they have had detrimental effects such as increasing demands of learning new skills, the need to adopt new types of work, pressure of higher productivity and quality of work, time pressure and hectic jobs, which in turn may produce burnout - particularly in rapidly developing countries like India.[11]

One such study done across India in 2016 with a sample of doctors shows high levels of burnout among entire population, about 65.8%.[12] It is a need of the hour to explore the prevalence of burnout among medical professionals, especially in a metropolitan city like Chennai. With this in mind, this study was done with the objective of assessing the prevalence of burnout among doctors in Chennai and to find out the associating factors and the preventive strategies adopted in overcoming it.

MATERIALS AND METHODS
This cross-sectional study was done among teaching faculties of various specialties working in a private medical college, Chennai, Southern India. The study was conducted during the period of three months (December 2016 to February 2017). The complete list of medical professionals working in the Medical College was obtained and a digital code was assigned to each one of them. After obtaining the Institutional Ethics Committee approval, the study was initiated among the medical college teachers. Oral informed consent was taken from all the participants. They were interviewed by a structured, pre-tested questionnaire. Demographic details, information suggestive of burnout and the factors associated with it were collected.

Study Tool used for Professional Burnout
The Oldenburg Burnout Inventory (OLBI), a self-administered questionnaire was used as the study instrument. It was chosen because it is free to use for non-commercial purposes, internationally validated and easy to answer by the study participants.[13,14,15]

The questionnaire assesses disengagement and exhaustion as two main features of burnout. There were sixteen questions in the questionnaire. Eight out of sixteen assess the exhaustion component and rest, the disengagement. Each question has four options and candidate has to select one, indicating the degree of agreement and score to the relevant answer is given as mentioned below. Calculations were done separately for both components. If the mean in both categories is more than 2.5, they were considered to have burnout.[13,16,17]

Data Analysis
Results were given in mean and standard deviation. Differences between proportions of groups were tested for statistical significance using the chi-square test. Probability values less than 0.05 were considered to be as statistically significant. Binary logistic regression analysis was done to calculate adjusted odds ratio to assess association between burnout and the covariates. Analysis was done in IBM SPSS version 21.0.

RESULTS
There were 261 teaching faculties, among which 7 opted to drop out of the study and 4 women faculty had gone on maternity leave making the sample size of 250. Among the 250 medical teachers, 128 were women and 122 were men. The age of study population ranged from 23 years to 73 years with a mean age of 31.9 ± 10.8 years. The general demographics of the study group are given in Table 1.

Prevalence of Burnout
The prevalence of exhaustion was more common among the study group than disengagement as shown in Table 2. The overall prevalence of burnout among the study population was 27.2%.

Factors Associated with Burnout
Among the study group 27.2% experienced burnout, the majority being medical professionals working in medicine allied specialties- General Medicine, Tuberculosis and Respiratory diseases, Dermatology, Venereology and Leprosy, and Psychiatry (29.81%).

Predictors of Burnout
Logistic regression was used to find out the predictors of burnout. During the subgroup analysis, we discovered that women have 4 times [0.8- 3.9 (1.16 - 9.61)] greater risk than men in developing burnout syndrome. Workplace factors such as feeling undermined by their colleagues and being unsatisfied with their income have 2.5 times and 3 times risk, respectively. Those who feel their sleep is inadequate have 2.3 times more chances of developing burnout. In addition to
workplace factors, our study has also discovered that the inherent personality of the person plays a major part in deciding whether they could develop burnout or not. Those unable to communicate effectively with others have a 5 times greater risk and those with poor anger management have a 2.8 times greater risk. In contrast marriage seems to be a protective factor, with those who are married having 0.78 times lesser risk of being burnt out. The following Table 3 enumerates the results.

<table>
<thead>
<tr>
<th>Predictors</th>
<th>Adjusted Odds Ratio (95% CI)</th>
<th>P value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Females</td>
<td>3.9 (1.16-9.61)</td>
<td>0.05</td>
</tr>
<tr>
<td>Married</td>
<td>0.79 (0.12-0.78)</td>
<td>0.02</td>
</tr>
<tr>
<td>Inadequate Sleep</td>
<td>2.3 (1.41-8.5)</td>
<td>0.01</td>
</tr>
<tr>
<td>Undermined by Colleagues or Superiors</td>
<td>2.5 (1.1-7.3)</td>
<td>0.02</td>
</tr>
<tr>
<td>Unsatisfied with Income</td>
<td>3.01 (1.06-8.42)</td>
<td>0.03</td>
</tr>
<tr>
<td>Unable to Communicate Effectively</td>
<td>5.3 (1.41-8.5)</td>
<td>0.05</td>
</tr>
<tr>
<td>Poor Anger Management</td>
<td>2.8 (1.2-6.11)</td>
<td>0.04</td>
</tr>
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Table 3. Predictors of Burnout

DISCUSSION
Among the 250 study participants, majority were women (51.2%) and the rest were men (48.8%). We used The Ollenburg Burnout Inventory, which assesses two important components of burnout i.e. exhaustion and disengagement. On conducting the study, we discovered that out of the 250 participants 60 (27.2) experienced burnout. Between the two components, more number of participants experienced exhaustion (46.4%) than disengagement (36.8%).

We discovered many studies while looking for literature which pointed to people in the service industry, especially doctors. Many studies have shown that Burnout has a high prevalence among practicing doctors and that one third of Canadian medical residents are affected, respectively.[7] Another study done among residents showed that 50% and 76% of surgical and internal medicine residents are affected, respectively.[8] A study by Cohen et al found that at least one-third of Canadian medical residents from different specialties experience a stressful life.[9] On the contrary, Lagasse et al report that 12.5% of medical residents scored positively on the three dimensions altogether.[10] Even higher rates were recorded in a study done among Lebanese residents.[11] A study like ours done in Galle, Sri Lanka, discovered that 20.6% of the doctors participated in the study had burnout.[12]

During the subgroup analysis, we discovered that women are at an astounding 4 times greater risk than men in developing burnout syndrome. Workplace factors such as feeling undermined by their colleagues and being unsatisfied with their income have 2.5 times and 3 times risk, respectively. Those who feel their sleep is inadequate have 2.3 times more chances of developing burnout. In addition to workplace factors, our study has also discovered that the inherent personality of the person plays a major part in deciding whether they could develop burnout or not. Those unable to communicate effectively with others have a whopping 5 times greater risk and those with poor anger management have an astonishing 2.8 times risk. In contrast, marriage seems to be a protective factor with those who are married having 0.78 times lesser risk of being burnt out.

Thus, many International studies indicate higher levels of burnout compared to the results that we obtained. But our sample does not reflect the whole country. Rapid developments in the medical field, burgeoning competition among doctors right from their medical school days, PG preparation and workplace stress will affect these results. In addition to working at Teaching Medical Colleges, many doctors are also involved in private practice and hence its significance needs to be evaluated. Thus, our study has simply touched the tip of the iceberg that is Burnout and further studies are required to understand the full scope of this emerging lifestyle disease.

CONCLUSION
Burnout among doctors is a serious issue, which has not been getting the attention it deserves. With its devastating professional and personal consequences, it is an emerging lifestyle disease and needs to be addressed further. In contrast to previous studies, our study has discovered that the personal attitude of the doctor towards his work has a great effect on him/ her experiencing burnout. Hence, it is not only important to set up strategies to prevent workplace stress, but to also put in a framework to help people develop a positive attitude towards their work. We feel that this must begin during their medical school days itself. Our results also prove that sound sleep and yearly vacations go a long way to relieving doctors of their stress. This in turn enhances the quality of life of a single doctor, and its cumulative effect will definitely improve the overall quality of medical care provided.

REFERENCES


