The Trend of Indexed Papers in PubMed Covering Different Aspects of Self-Immolation

Mohsen Rezaeian

1 Department of Social Medicine, Occupational Environmental Research Center, Rafsanjan University of Medical Sciences, Rafsanjan, Iran

Abstract

Self-immolation is a fatal and devastating method of committing suicide used around the world. The chief aim of the present article is to look at the trend of indexed papers in PubMed covering different aspects of self-immolation. PubMed search engine (http://www.ncbi.nlm.nih.gov) was searched by using six keywords i.e. “self-immolation”, “self-inflicted burn”, “self-burning”, “self-incineration”, “suicidal burns” and “suicide by burning”. These keywords should appear either in the title or the abstract of the articles. The time frame was set as to retrieve papers expanding from early indexing time up to end of the year 2011. Based on the search strategy 132 papers were retrieved from these total numbers; 12 (9%) were categorized as review papers; 24 (18%) as case reports and the rest 96 (73%) were original studies. It seems that the number of papers increased during the years of investigations and the highest indexed papers i.e. 14 (10.6%) belonged to the year 2011. While most journals, published only one article the highest indexed papers i.e. 35 (26.5%) belonged to Burns. There was an increasing trend in the number of self-immolation articles indexed in PubMed since 1965. Three journals i.e. Burns, Journal of Burn Care and Rehabilitation and Journal of Forensic Sciences hosted for more than 37% of all those indexed articles. However, given the increasing trend of self-immolation still more studies are needed to shed light on the diverse aspects of this appalling human behavior.

Keywords: Self-immolation; Self-inflicted burn; Self-burning; Self-incineration; Suicidal burns; Suicide by burning; PubMed

Introduction

Self-immolation or suicide by burning is a fatal and devastating method of committing suicide used around the world. Evidence indicated that although the bulk of this phenomenon occurs in developing countries including Middle Eastern countries and Indian sub-continent the anecdotal episodes of self-immolation might happen in every corner of the globe (1 & 2).

Evidence further suggests that there seems to be a growing trend of suicide among young married deprived females in developing countries who apply self-burning (3 & 4). Therefore, for better understanding the patterns and the causal roots of self-inflicted burns more scientific investigations are needed. The chief aim of the present article is to look at the trend of the indexed papers in PubMed covering different aspects of self-immolation.

Materials and Methods


These keywords should appear either in the title or the abstract of the articles. The time frame also was set as to retrieve papers expanding from early indexing time up to end of the year 2011. Advanced search options were applied to distinguish between types of articles i.e. reviews, case reports and original studies.

Result

Based on the search strategy 132 papers were retrieved dealing with self-immolation. From these total numbers, 12 (9%) were categorized as review papers, 24 (18%) as case
reports and the rest 96 (73%) were original studies.

Furthermore, in terms of articles’ language 124 (93.9%) English, 6 (4.5%) German, 1 (0.8%) Polish and 1 (0.8%) Russian articles were indexed.

Figure one depicted the number of papers in an ascending order based on their years of the publications. As this figure highlights the first paper, appeared in 1965. It seems that the number of papers increased during the years of investigations. Although there were fluctuations, the highest indexed papers i.e. 14 (10.6%) belonged to the year 2011. The second and the third highest indexed papers i.e. 11 (8.3%) and 10 (7.6%) belonged to the year 2004 and 2010, respectively. It should also be noted that from 1967 to 1974 and 1978 to 1982 plus 1984, 1986, 1987 and 2000 no paper was indexed.

Figure 1. The number of papers in an ascending order based on their years of publications

Figure 2. The number of papers in an ascending order based on journal names in which they appeared
Figure two also depicted the number of papers in an ascending order based on journal names in which they appeared. As this figure highlights, while most journals published only one article the highest indexed papers i.e. 35 (26.5%) belonged to Burns. The second highest papers i.e. 9 (6.8%) belonged to Journal of Burn Care and Rehabilitation while the third highest papers i.e. 7 (5.3%) belonged to Journal of Forensic Sciences.

Discussion

The results highlighted that from 1965 to 2011 there are 132 indexed papers that cover different aspects of self-immolation. Nine percent of all retrieved articles were categorized as review papers. These papers cover the patterns of self-immolation around the world (5) or focus on the self-immolation in an especial faith (4 & 6). These papers also cover socioeconomic, cultural, behavioral, psychiatric, and psychopathology aspects of self-immolation (7-10). “Managing self-inflicted burn injuries” (11) is also among other topics which are covered with the review papers.

Furthermore, eighteen percent of all articles were categorized as case reports. The earliest case report entitled: “Treatment and management of a case of self-burning” date backs in 1976 (12). “Camphor burns to the palm: an unusual self-inflicted burn” (13) and “An unusual self-inflicted burn in an asthmatic patient” (14) are to name just a few titles of the other case reports.

Seventy three percent of all articles were categorized as original studies. Most of these studies are related to the pattern of self-immolation in the most affected countries within developing world including Iran (15-24), India (25-33), Sri Lanka (34-36), Afghanistan (37 & 38) and Iraq (39). Less of these studies are also related to the pattern of self-immolation in the least affected countries within developed world including Finland (40), Greece (41), United States of America (42-43) and Ireland (44).

The results further highlighted that from 1965 to 2011 there is also an upward trend in the number of articles covering different aspects of self-immolation and the highest proportion of indexed papers i.e. 10.6% belonged to the year 2011. However, given the increasing trend of self-inflicted burns especially among young married deprived females, in developing countries (3 & 4), more studies are needed to shed light on other different aspects of this appalling human behavior. For instance, although evidence suggests that the case fatality rate of self-immolation could be high (1) we need further studies to comprehend what would be the faith of those who survive, but should live with the horrendous consequences of their act.

There are fifty-nine journals that publish relevant articles from 1965 to 2011. However, most of them published only one article. One journal i.e. Burns hosted for more than 25% of all those indexed articles. Furthermore, Journal of Burn Care and Rehabilitation and Journal of Forensic Sciences are jointly hosted for nearly 12% of other indexed articles. These figures highlighted that these three journals provide an appropriate forum for discussion around different aspects of self-immolations.

Finally nearly ninety four percent of all retrieved papers were written in English. This might reflect that either PubMed is keen to index mostly English journals and/or scientists all over the world tend to publish their scientific works mostly in English (45 & 46).

There was an increasing trend in the number of self-immolation articles indexed in PubMed since 1965. However, given the increasing trend of self-immolation still more studies are needed to shed light on the diverse aspects of this appalling human behavior. Three journals i.e. Burns, Journal of Burn Care and Rehabilitation and Journal of Forensic Sciences hosted for more than 37% of all those indexed articles and provided an appropriate forum for discussion around different aspects of self-immolations.

The indexed papers cover different aspects of self-immolation and in ascending order were categorized as reviews, case reports and original studies. Original studies reflected the geographical locations of self-burn around the world with more papers originating from mostly affected areas.

Since different search engines have different coverage, it would be suggested that future studies will carry out to investigate the same issue in other search engines including Web of Science, Scopus, Google Scholar, etc. Moreover, future studies might also consider the quality of journals that publish papers on self-immolation, for example, by looking at their impact factors.

References


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