A REVIEW OF THE IMPACT OF COMMERCIAL DRUG ADVERTISING ON THE 
EMERGENCE OF SELF-MEDICATION PHENOMENON

R. Ershadpour¹, Z. Kargar¹, M. Y. Rajput²*

¹Health Research Center, an expert of operating room, Jahrom University of Medical Sciences, Jahrom, Iran
²Assistant Professor of Internal Medicine, Gastroenterology and Hepatology, Jahrom University of Medical Sciences, Jahrom, Iran

Published online: 24 November 2017

ABSTRACT

Introduction: Today, the phenomenon of commercial advertising is not a simple information tool to link consumer to producers. The pharmaceutical industry is increasingly influenced by commercial advertising. Self-medicating may be one of the major consequences of drug advertising.

Methodology: This review article was conducted through reviewing 100 articles and 12 books, derived from valid libraries and electronic sources.

Findings: Besides the drugs prescribed by physicians, patients also go to pharmacies directly and provide and take different drugs based on their own [often false] diagnosis to prevent their diseases or to treat or strengthen themselves and this is due to the inappropriate culture induced by drug advertising. On the other hand, commercial advertising has changed the culture of over-the-counter (OTC) medications and has increased their use. One of the major strategies used in satellite TV advertising is promotion of the culture of disease among public and in some cases, the information and statistics given by these channels have no scientific and official base.

Discussion and conclusion: Numerous studies indicate that due to the drug advertising, some common and non-medical symptoms are considered as disease.

Author Correspondence, e-mail: shabnamrajput2014@gmail.com
doi: http://dx.doi.org/10.4314/jfas.v9i7s.73
Considering the lack of awareness of people about the nature of their diseases, further expansion of these ads will certainly result in medication misuse, induction of false need and the prevalence of smuggled, unhealthy and fake drugs among public. Therefore, it is necessary to investigate this phenomenon in Iranian society to identify its unknown dimensions in accordance with today’s Iranian culture and to make effective efforts to promote educations and to build a proper culture.

**Keywords:** commercial advertising, drug advertising, self-medication

**INTRODUCTION**

Commercial advertising is one of the most common phenomena of this era. Advertising is a deliberate and precise attempt to shape individuals’ perception, to manipulate their understanding and to align their behaviors with a specific purpose; in other words, it conveys a specific thought to influence the others’ thoughts and deeds and to achieve certain purposes using various tools and methods, within a limited time and at a limited place (1, 2, 3, 4 and 5). In the advertising culture, it is defined as: any type of content, statement or announcement [in which some goods or services are declared] published through the media to attract people or public opinion (1 and 6). Due to its profound and gradual influence on different aspects of life, many countries have paid special attention to this phenomenon for many years (7, 8 and 9). Utilizing the amazing capacities of the modern mass media, commercial advertising is no longer considered a simple information tool to link consumers to producers; however, it is a reality with fundamental effects on all areas of social, economic, cultural and political life (10, 11, 12 and 13). In the western countries, commercial advertising is considered a major cause of commercial and industrial prosperity, quality improvement and cost reduction; however, relentless advertising on positive features of goods and services is considered by many social and communication researchers as a dangerous brainwashing (14, 15, 16). Cultural critics of commercial advertising believe that commercial advertising mainly focuses on creating a specific desire in people; something that has never existed before (17). They believe that commercial advertising does not merely aim at creating awareness in customers about a simple product; but, it creates some kind of passion and enthusiasm in customers that can be quenched only after purchasing the advertised goods or services, which is obviously dangerous (14, 15 and 16). One of the major industries that are increasingly influenced by commercial advertising is the "pharmaceutical industry", which has currently become an integral part of people's lives. Self-medication is one of the major consequences of drug advertising (19, 20, 21, 22 and 23). Today, different TV channels, satellite TV channels,
Internet, radio, newspapers, journals, brochures and banners have become doctors who prescribe different prescriptions for various people without paying deep attention to their main problem (24 and 25). Many of these advertising centers exploit people's fear of disability and death and focus on these weaknesses (26). Today, Iran has one of the highest medication consumption rates in the world and over the past decade, indiscriminate use of medication has increased in this country (27). Studies have shown that Iran lacks a proper medication consumption model. Some efforts have been made to reform the existing model; however, they have mostly failed. Iran’s medication system faces problems such as indiscriminate consumption and self-medication and advertising has a significant impact on indiscriminate consumption of medications. The results of a study in the U.S. (1998) showed that more than 53 million patients have consulted with their doctors on the possibility of changing their medications, after watching an advertisement on TV and 49 million patients have tried to get more information about new treatments for their diseases through surfing the Internet (24, 28 and 29). According to these reports, drug advertising influences a significant number of healthy or seemingly healthy people; they may visit physicians after watching these ads. In this study, it was also found that over 12 million prescriptions were issued at the request of patients, under the influence of mass media advertising (11 and 30). Advertising for goods, such as medicines, which are directly associated with the health and lives of humans is an indecent act (31 and 32). Some ads are distributed under minimal supervision to encourage the general public to buy medicines; however, they do not provide enough information about the disadvantages and side effects of these medicines (23 and 33). Considering the profound effects of ads on people's medication consumption habits, this study aimed to identify these effects and subsequent changes in the public medication consumption culture and attempted to offer solutions to prevent its further development.

**METHODOLOGY**

To access relevant texts and articles, databases including: Pub Med, ISI, Google Scholar, Magiran, SID, Medlib and Science Direct were searched for the following keywords: commercial advertising, the impact of advertising, direct drug advertising and various types of ads. First, the abstract and then, if relevant, the whole article was studied. Relevant, coherent and useful articles entered into the study. A total of 60 related articles and 10 books were finally selected. In the next stage, the texts and documents were reviewed and categorized by two scholars, based on the various types of commercial ads and the effects (advantages and disadvantages) of commercial advertising on the public medication consumption culture.
Finally, 40 articles and books, published during 1992-2014, which covered the most relevant aspects were selected and presented in the form of this review article.

**FINDINGS**

It has been about 10 years since the FDA changed its policy for initiating direct drug advertising on television (22, 26 and 34). Drug advertising is not merely limited to television advertising and today, pharmaceutical marketers personally promote their cosmetic products, health products, supplements and medications in pharmacies to attract customers. This has induced some false needs in customers (35). Today, besides the drugs prescribed by physicians, most people go to pharmacies directly and provide and take different drugs based on their own - often false - diagnosis to prevent their diseases or to treat or strengthen themselves (27 and 36). Today, there are many concerns about the consumption of over-the-counter (OTC) drugs and according to studies, commercial advertising has changed the culture of their consumption and has increased their indiscriminate use (22 and 36). Meanwhile, according to studies, it has been observed that these ads influence women more than men; because women are more concerned about the health of their family and children (37). According to the global statistics, a small number of advertised drugs are new and the rest are expensive drugs that have long been used by a large population (25, 26, 38, 39 and 40). Misled by the invalid information presented in advertisements, a healthy person may buy a drug without a full understanding of the symptoms of his/her disease. In this case, the position of physicians and specialists is faded away and a phenomenon called “advertising medicine” happens. Today, the satellite TV channels allocate a considerable part of their time to advertising programs; yet they choose their programs based on their audiences and the culture of the target society (26 and 41). In Persian-language channels, the ads mainly focus on weight loss, height increase and wrinkle removal products, guaranteed treatment of freckles, guaranteed treatment of addiction, treatment of sexual disabilities and many similar cases. This type of medicine is provided by satellite TV channels and an interconnected network of different people who occasionally appear as physicians. This medicine is not real, scientific and academic and most of the cases are based on demagogic purposes (25, 26, 42 and 43). Many of these people who introduce themselves as physicians are not physicians or they may have been away from the field of medicine for a long time and many have become businessmen. In this case, the disaster occurs when an individual’s health is at risk; for example, patients may put aside the drugs prescribed by their physicians and may turn toward those they have heard of in various ads (26). Sexual enhancement advertising on satellite TV channels is a multi-billion dollar
business worldwide. Because of some cultural and social reasons, in Iranian society, many people who suffer from sexual dysfunction will not go to physicians. These people are unaware of various possible consequences of their act. Naturally, in such a situation, people will have no access to experts and specialists; thus, the satellite TV channels or yellow journals will become their only source of knowledge and this increases the possibility of purchasing and taking illicit drugs (26 and 41). Recent studies by the Nutrition Improvement Office of the Ministry of Health and Medical Education have revealed the prevalence of obesity and overweight, according to which, about 50% of urban men aged 40-69 years and 66% of women at the same age group are overweight. An almost large group of these people come along with their obesity and overweight throughout their lives; however, some others try to lose weight due to their illness or to improve their fitness. Therefore, overweight and obesity are two major problems in advertising medicine (30, 41 and 42). Every day, more and more women try to lose weight by taking pills, syrups, gels and creams. Some people try almost all the products and brands. They go on crash diets to achieve their ideal weight and fitness. Advertising suggests that all women should have beautiful bodies and encourage them to go on various diets and to take weight loss medications. The possible weight loss is mainly due to one’s exercises, not due to the pills and drugs suggested by the satellite TV channels; because people are usually advised to go on some diets and do some exercises before or after taking these medications. These practices are certainly effective and make some changes and people usually attribute these changes to the drugs they have taken (15 and 26). One of the major strategies used in satellite TV advertising is promotion of the culture of disease among public and in some cases, the information and statistics given by these channels have no scientific and official base. Each disease has a unique scientific definition and people should not be deceived by baseless claims of frauds. On the other hand, sometimes the ads mention some scientific psychological symptoms for diseases; however, one cannot expect himself/herself to do beyond his/her natural physiological capacities. Considering the lack of awareness of people about the nature of their diseases, further expansion of these ads will certainly result in medication misuse and the prevalence of smuggled, unhealthy and fake drugs among public (25, 26 and 45).

**DISCUSSION**

The tremendous wave of advertising leads all the actions and reactions. It creates a new human being and forces him to choose its proposed products. This reality is the critique raised by some scholars who argue that advertising results in "human slavery" (10, 11, 14 and
Herbert Marcuse, a German-American philosopher also viewed commercial advertising with a highly critical approach. He believes that this type of commercial advertising entangles man more and more in the profiteering conditions of the ruling community (14 and 48). The needs to possess, consume, implement and replace various types of products and equipment are some of the destructive effects of this type of commercial advertising (23). Kawachiet al. in their study entitled "the effect of direct-to-consumer advertising on medical care experiences" introduced the phenomenon of “medicalization” as a process by which people assume some common and non-medical symptoms as illnesses (49). Some critics believe that drug advertising is not in the interest of the public health; because these ads challenge physicians' authority and reduce patients’ trust in their prescriptions. Advertising agencies recognize prevalent diseases and problems among people and plan to make drugs for these diseases in order to make more money (21). In fact, pharmaceutical companies mostly focus on the profitability of their products than their effectiveness (23). Such advertising leads to over-consumption of drugs, especially new drugs, which have not yet been examined for their long-term side effects (50 and 51). Another major issue in this regard is that the advantages of pharmaceutical advertising should not be ignored. Drug advertising can enhance clinical information of individuals and can persuade them to obtain more information about various diseases and treatments (52 and 53). Commercial advertising sometimes makes people aware of a hidden illness or symptoms of an illness that have already been ignored; thus, they can buy the drugs to prevent further deterioration of their conditions and on the other hand, this can reduce the treatment costs (28 and 32). Some health-related problems have no symptom. They are usually left untreated and direct-to-consumer advertising encourages people to seek medical treatments for these problems (54 and 55). However, currently the disadvantages of this type of advertising overshadow its benefits and every day we observe various side effects of these drugs. The most dangerous effect of direct-to-consumer advertising is that it creates a sense of need for medical care and treatment in healthy people (56, 57, 58, 59 and 60). Continuation of these misleading ads will transform human society into a healthy, but depressed and fearful society (38). To reduce the impact of satellite TV advertising (satellite medicine), authorities should attempt to increase public awareness about the purpose of the programs as well as the side effects of various drugs. Patients should also be informed of their diseases and treatment procedures. Another important issue is to respond appropriately to the public needs. For instance, people should know where to go and which specialist to visit when they suffer from an illness. In this case, the position of physicians in the treatment of diseases should be strengthened.
problems such as sexual problems require effective information communication. Patients with sexual problems must be guided to relevant centers; meanwhile, due to the high prevalence of these problems, such centers should be further developed in Iran. In the case of weight loss pills, these drugs should be examined by experts before they are distributed in the market. This becomes especially important when we see many of these European and American drugs and products are prohibited even in producing countries. In many of these countries, even vitamin supplements require prescriptions. Moreover, authorities should monitor drug advertising in the country more carefully. The information provided in advertisements must be validated by experts. The psychological effects of this type of advertising should also be checked. This advertising should not turn societies into greedy and consumerist societies. At the moment, an urgent and planned action is essential to prevent these ads and their adverse effects. This study aimed to examine various effects of drug advertising in order to prepare the ground for taking further preventive actions. It is imperative to study this phenomenon in Iran’s specific cultural conditions in order to identify its unknown dimensions and to make effective efforts to promote educations and to build a proper culture in this regard.

ACKNOWLEDGMENT

Hereby, the author would like to express his gratitude and appreciation to Dr. Abolfazl Nikosir, the Food and Drug Deputy of Jahrom University of Medical Sciences and Elham Kashafi, the Head of the Committee of Reasonable Drug Administration and Consumption in the R&D Department of Food and Drug Administration of Jahrom University of Medical Sciences.

REFERENCES


22- Mintzes Barbara, Direct to consumer advertising is medicalising normal human experience. 13 April 2002; 324:908-909.


24- Khojasteh, Hassan. The function of commercials on radio and television from the perspective of the critical school, Research and Assessment. 2002: 29.


31- Researched Medicines Industry Association of New Zealand. DTC advertising can enhance public health. The case for for direct to consumer prescription medicine advertising. June 2000.


43- DanaeiMoghaddam, V. TV commercials, newspaper Iran, the sixth year. 2013: 1463: 7.


47- Blake Reed and Edwin Harvldsn, the concepts of communication, translation M. Owhadi, Tehran: Soroush. 2000.


51- Pfizer and Canadian Lipid Nurses' Network. Which would you rather have, a cholesterol test or a final exam? Chatelaine 2001; 74(9):74-5.


