

Economic Costs of Residential Fires: A Systematic Review

Fahmida Saadia Rahman ^{1,*}, Wadad Kathy Tannous ¹, Gulay Aysar ¹, Kingsley Emwinyore Agho ², Nargess Ghassempour ¹ and Lara A. Harvey ³

¹ School of Business, Western Sydney University, Parramatta, NSW 2150, Australia; k.tannous@westernsydney.edu.au (W.K.T.); g.aysar@westernsydney.edu.au (G.A.); n.ghassempour@westernsydney.edu.au (N.G.)

² School of Health Sciences, Western Sydney University, Penrith, NSW 2751, Australia; k.agho@westernsydney.edu.au

³ Falls, Balance and Injury Research Centre, Neuroscience Research Australia, Randwick, NSW 2031, Australia; l.harvey@neura.edu.au

* Correspondence: f.rahman@westernsydney.edu.au

Abstract: Globally, most fire-related deaths and injuries occur in residential areas. The aim of this systematic review is to report on the economic costs of residential fires from a societal perspective. Five databases (MEDLINE, EMBASE, EconLit, CINAHL, and Scopus) and grey literature were searched to identify studies that report economic or societal costs of residential fires with data from 1978 to 2021. There were no restrictions on study design. A narrative synthesis was undertaken based on the societal and economic costs reported for each included study. Seven studies from the United States, Canada, Australia, and Kuwait reported costs of residential fires. The costs of injuries and deaths were between USD 12 million and USD 5 billion, and between USD 75 million and USD 26 billion, respectively. The costs of treatment ranged from USD 0.3 million to USD 551 million, lost productivity from USD 12 million to USD 4 billion, and property damage from USD 8 million to USD 10 billion. This systematic review provides the most comprehensive evidence to date on the economic costs of residential fires. This study would offer insights into the effects of residential fires on diverse economic agents and aid in community fire prevention messaging and incentives.

Keywords: economic costs; fire; residential; injury; death



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1. Introduction

Fire is one of the leading causes of death and disability worldwide [1]. Fire-related burns are the fourth most common source of unintentional trauma and have been categorized as a global priority for prevention [1]. Each year, there are an estimated 300,000 deaths due to fires and millions more people are left with lifelong injuries, disabilities, and disfiguring scars, often with resulting social isolation and economic losses for burn survivors and their families [2]. In low-, middle-, and high-income [3] countries, most fire-related deaths and injuries occur in residential properties [4–6].

Low- and middle-income countries (LMICs) experience over 90% of all fire-related deaths [1]. They are commonly considered more vulnerable to fire-related injuries and fatalities [2]. This is due, at least in part, to limited building and fire safety codes [7]. Moreover, fire safety measures are not ensured during the design, construction, and maintenance phases [7,8]. Despite this increased burden, there is limited research on LMICs on rates of injury/death and property damage resulting from residential fires. Studies conducted on LMICs reveal that fire is a regular problem in homes, workplaces, hospitals, and public places, and has become a serious threat, particularly for urban settlement [7,9–16]. However, most of these studies describe fire incidence and prevalence across these settings without the provision of information specifically on residential fires.

For high-income countries, fire incidents are also a major concern [17]. There are many studies that provide statistics on fire incidents, related injuries and/or deaths, and

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Federal Register ,2008-03 **The Economics of Smoking** Robert D. Tollison,Richard E. Wagner,2012-12-06

Cigarettes are under political attack at all levels of government in the United States From Washington D C to state capitals to local govern ments proposals abound to increase the cigarette excise tax to impose smoking bans to prevent cigarette advertising to restrict the sale of cigarettes through vending machines to cut off the export of cigarettes to earmark the cigarette excise tax for health programs to divest the stock of cigarette companies and so on And all of these are purportedly being advocated in the name of health Undergirding and abetting the health argument is an economic argument that claims to place a value of up to 100 billion per year on the alleged health costs of smoking to the American economy which is more than 3 per pack of cigarettes smoked As our title suggests our interest lies in the economics of smoking and not in the health issues surrounding smoking We are professional economists and not medical scientists We will focus on what if any economic consequences arise for nonsmokers when smokers smoke For purposes of our discussion we simply accept the premise that smoking damages health and proceed with our analysis Since we have not studied the issue ourselves we have no way of knowing whether such a premise is true But it really does not matter for getting the economics of smoking right The important point resides in who pays for whatever to smoking *Fire Safe Cigarettes* United States. Congress. House.

Committee on Energy and Commerce. Subcommittee on Commerce, Consumer Protection, and Competitiveness,1994 Distributed to some depository libraries in microfiche The Hidden Cost of Smoking: How It Damages Your Body and Mind Margaret Light,2025-03-27 The Hidden Cost of Smoking How It Damages Your Body and Mind explores the far reaching consequences of smoking both physical and psychological Delving into the impact smoking has on the lungs heart skin and mental health the story reveals how this deadly habit affects every part of the body Beyond the visible harms it also uncovers the emotional toll of addiction highlighting the challenges of breaking free from nicotine dependence This compelling narrative underscores the importance of quitting and offers insights into the long term benefits of choosing a healthier smoke free life reclaiming both body and mind Societal Costs of Cigarette Fires ,1993 **The Economic Significance of Tobacco** ,1989-01-01

The Price of Smoking Frank A. Sloan,Jan Ostermann,Christopher Conover,Donald H. Taylor,Gabriel Picone,2006-08-11 What does a pack of cigarettes cost a smoker the smoker s family and society This longitudinal study on the private and social costs of smoking calculates that the cost of smoking to a 24 year old woman smoker is 86 000 over a lifetime for a 24 year old male smoker the cost is 183 000 The total social cost of smoking over a lifetime including both private costs to the smoker and costs imposed on others including second hand smoke and costs of Medicare Medicaid and Social Security comes to 106 000 for a woman and 220 000 for a man The cost per pack over a lifetime of smoking almost 40 00 The first study to quantify the cost of smoking in this way or in such depth this accessible book not only adds a weapon to the arsenal of antismoking messages but also provides a framework for assessment that can

be applied to other health behaviors The findings on the effects of smoking on Medicare and Medicaid will be surprising and perhaps controversial for the authors estimate the costs to be much lower than the damage awards being paid to 46 states as a result of the 1998 Master Settlement Agreement *NIST Special Publication* ,1988 **Environmental Tobacco Smoke (part 2)** United States. Congress. House. Committee on Energy and Commerce. Subcommittee on Health and the Environment,1994 Environmental Tobacco Smoke United States. Congress. House. Committee on Energy and Commerce. Subcommittee on Health and the Environment,1994 Departments of Veterans Affairs and Housing and Urban Development, and Independent Agencies Appropriations for 1993: American Battle Monuments Commission United States. Congress. House. Committee on Appropriations. Subcommittee on VA, HUD, and Independent Agencies,1992 **A Century of Wildland Fire Research** National Academies of Sciences, Engineering, and Medicine,Division on Earth and Life Studies,Board on Agriculture and Natural Resources,Board on Earth Sciences and Resources,Committee on Increasing Resilience to Wildland Fire: A Century of Wildland Fire Research,2017-08-30 Although ecosystems humans and fire have coexisted for millennia changes in geology ecology hydrology and climate as well as sociocultural regulatory and economic factors have converged to make wildland fire management exceptionally challenging for U S federal state and local authorities Given the mounting unsustainable costs and difficulty translating existing wildland fire science into policy the National Academies of Sciences Engineering and Medicine organized a 1 day workshop to focus on how a century of wildland fire research can contribute to improving wildland fire management This publication summarizes the presentations and discussions from the workshop **Departments of Veterans Affairs and Housing and Urban Development, and Independent Agencies Appropriations for 1993** United States. Congress. House. Committee on Appropriations. Subcommittee on VA, HUD, and Independent Agencies,1992 *Tomorrows Trends in Fire Retardant Regulations, Testing, and Applications* Frca,1996-10-11 This book contains papers presented at the fire retardant chemicals association conference held in Florida in 1996 on various topics including trends towards polymeric flame retardants intumescent flame retardants and fire calorimetry testing in product research and development *Fire Behavior of Upholstered Furniture and Mattresses* John Krasny,William Parker,Vytenis Babrauskas,2008-12-05 The flammability of upholstered furniture is a major concern to engineers and others across a wide swath of organizations This book was written to provide its audience with the science and engineering needed to better understand the combustibility of the products they manufacture purchase and try to extinguish It addresses the science and engineering information needs of public and private sector fire technology personnel including fire service students and officers fire investigators fire protection engineers government officials textile chemical and furniture industry personnel or institutional furniture purchasers *Fire Safety Cigarettes* United States. Congress. House. Committee on Energy and Commerce. Subcommittee on Commerce, Consumer Protection, and Competitiveness,1990 *Prevention* , *Departments of Veterans Affairs and Housing and Urban Development, and Independent Agencies*

Appropriations for 1996 United States. Congress. House. Committee on Appropriations. Subcommittee on VA, HUD, and Independent Agencies, 1995 **Departments of Veterans Affairs and Housing and Urban Development, and Independent Agencies Appropriations for 1996: American Battle Monuments Commission** United States. Congress. House. Committee on Appropriations. Subcommittee on VA, HUD, and Independent Agencies, 1995 **Tobacco and Health**

K. Slama, 2012-12-06 Over 1 100 delegates from a hundred countries attended the 9th World Conference on Tobacco and Health. After five days of debate, several important resolutions were adopted unanimously and will be landmarks in the fight against tobacco. This great success is due to three facts which emerged from the discussions:

1. It appears clearly now that the risks associated with tobacco are much greater than previously assumed. Out of two regular smokers, one will die from a tobacco-related disease.
2. Reducing tobacco consumption can be achieved, but the data collected in several countries show that it requires a global strategy. This strategy was much debated during the conference.

The resolutions adopted emphasize the agreement of the delegates on the main points of action to fight the growing epidemic of tobacco-attributable disease and death. This involves convincing the general public, the medical community, and decision makers of the need to act for tobacco control. The most efficient tools for helping individuals never to start or successfully to stop using tobacco should be developed. Effective tobacco control endeavors are required to counteract the actions of the powerful and influential tobacco manufacturers. With the help and under the aegis of WHO, DICC, IUATLD, ISFC, IOCD, and IUHPE, an international alliance for health and against tobacco should unite all those who are engaged in this fight.

Embark on a transformative journey with is captivating work, Discover the Magic in **Societal Costs Of Cigarette Fires** . This enlightening ebook, available for download in a convenient PDF format , invites you to explore a world of boundless knowledge. Unleash your intellectual curiosity and discover the power of words as you dive into this riveting creation. Download now and elevate your reading experience to new heights .

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