Chapter 8
Regulatory Shift Healthcare Applications in Industry 5.0

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ABSTRACT

This chapter aims to present pertinent theoretical frameworks and the most recent results of empirical research in health. It is written for amateurs and experts who wish to understand the industry better. A meta-ethnographic synthesis of research on healthcare applications for Industry 5.0 forms the basis of the review's method. The results show that the link between Industry 5.0 and healthcare applications have a positive relationship. Big data may be used by Industry 5.0 to learn new things and produce symmetrical innovation. It also establishes a digital knowledge network that offers accurate medical data and vital patient records. It establishes a digital knowledge network that offers accurate medical data and vital patient records. This chapter contributes to a better understanding of the link between Industry 5.0 and healthcare applications.

INTRODUCTION

This chapter contains reviews based on the concept of the book *Advanced Research and Real-World Applications of Industry 5.0*. Both academics and the public will benefit from this chapter. For example, a health professional is responsible for distributing healthcare resources. Regulation changes are required for industry-wide healthcare applications in 5.0 (Madikunta et al., 2022). Moreover, its capacity to develop and deliver cheap healthcare products is discussed in this chapter. The chapter's structure is as follows: A short literature-based strategy was presented as

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a starting point. Second, we introduced the findings of the review of the literature in the section devoted to them. As a final part of the debate, the author provides an evidence-fusion theory-based method, which includes proof of the link between healthcare applications for Industry 5.0. In the concluding part, we offer a conclusion and ideas for further study.

BACKGROUND

Over the last decade, there has been an emerging interest in understanding the link between Industry 5.0 and healthcare applications. Healthcare consumers today strongly emphasize tailoring products to meet their specific needs. The term "industry 5.0" refers to a fifth industrial revolution where the tailored needs of consumers involved in the provision of health care might be met. This chapter explores regulatory changes in Healthcare applications in Industry 5.0. It can develop and deliver affordable healthcare products.

This section provides information on developing and developed countries' medical device markets and regulatory systems. As one of the world's most competitive medical device industries, the UK is renowned for its capacity to innovate medical equipment for the UK and international marketplaces consistently (Morrar et al., 2017). This is partly attributed to more excellent R & D investment levels and easier access to venture capital than the SA industry, which lacks government backing and access to venture capital—support for R & D and technical advancement (Foray et al., 2012). Despite the UK's solid domestic product development capacity and strict regulations, most of the treatment equipment supply in Southeast Asia comes from imports. There are limited regulations there, creating significant prospects for international device producers. As a result of increasing expenses related to healthcare technology R & D, clearance, compliance, and quality control in the UK and Southeast Asia are not widely accessible (World Health Organization 2013). Its purpose is to investigate how legislative changes affect industrial capacity and the creation of affordable medical equipment for regional communities in the UK and Southeast Asia, respectively.

By constantly changing health regulations, society's safety has been altered (Kushi et al. 2012). For example, medical device issues in the UK, such as hip replacements and breast implants, were essential in developing new regulations (Melvin & Torre, 2019). Because of these concerns, the Southeast Asian government implemented a series of health regulatory adjustments (Bao et al., 2020). Processes such as the use of surprise inspections of manufacturing facilities by notified bodies, improved cooperation in the oversight of notified bodies, preservation of uniformity in recognition of notified entities across EU member states, improvement of