



# Data Science and Geriatric Anaesthesia Research: Opportunity and Challenges

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## INTRODUCTION

General anesthesia is a type of anesthesia that involves administering medications to induce unconsciousness and suppress the patient's ability to feel pain during a medical procedure. While general anesthesia is essential for many surgeries and medical procedures, it also has some drawbacks and challenges. In this article, we will explore the drawbacks of general anesthesia and the challenges associated with its administration. One of the most significant drawbacks of general anesthesia is the risk of complications. General anesthesia can affect various systems in the body, such as the respiratory, cardiovascular, and nervous systems. The most common complications associated with general anesthesia include nausea and vomiting, sore throat, dizziness, and headaches. In some cases, patients may experience more severe complications such as allergic reactions, heart attacks, or strokes. While these complications are relatively rare, they can be life-threatening. Another drawback of general anesthesia is the recovery time. After receiving general anesthesia, patients may experience grogginess, confusion, and memory loss. It can take several hours or even days for these symptoms to subside, and patients may need to stay in the hospital or recovery center until they feel well enough to go home. The recovery time can also vary depending on the individual and the type of procedure they underwent. For instance, patients undergoing major surgeries may require longer recovery times than those undergoing minor procedures [1-3].

## DESCRIPTION

Furthermore, general anesthesia is not suitable for all patients. People with certain medical conditions such as heart disease, lung disease, or obesity may not be good candidates for general anesthesia. Additionally, elderly patients and children may

be more susceptible to the effects of general anesthesia, which can increase their risk of complications. It is essential for patients to disclose their medical history and any medications they are taking to their healthcare provider before undergoing general anesthesia. The administration of general anesthesia also presents several challenges. One of the most significant challenges is the proper dosing of the medication. General anesthesia requires a delicate balance of medications to induce and maintain unconsciousness while also avoiding potential complications. An overdose of anesthesia can lead to a coma or even death, while too little anesthesia can result in the patient waking up during the procedure or feeling pain. Another challenge associated with general anesthesia is the monitoring of the patient during the procedure. Healthcare providers must monitor the patient's vital signs, including heart rate, blood pressure, and oxygen saturation, to ensure they are stable and not experiencing any adverse reactions to the anesthesia. Additionally, healthcare providers must ensure the patient's airway remains clear and the patient is breathing properly throughout the procedure. Moreover, general anesthesia can be costly. The medications and equipment required for general anesthesia can be expensive, and the cost can vary depending on the length and complexity of the procedure. Patients may also need to pay for additional services, such as pre-operative testing or post-operative care, which can further increase the cost [4,5].

## CONCLUSION

In conclusion, while general anesthesia is essential for many surgeries and medical procedures, it also has several drawbacks and challenges. Complications associated with general anesthesia can be severe, and patients may require significant recovery time. General anesthesia is not suitable for all patients, and healthcare providers must carefully monitor pa-

<b>Received:</b>	31-January-2023	<b>Manuscript No:</b>	IPBJR-23-16443
<b>Editor assigned:</b>	02-February-2023	<b>PreQC No:</b>	IPBJR-23-16443 (PQ)
<b>Reviewed:</b>	16-February-2023	<b>QC No:</b>	IPBJR-23-16443
<b>Revised:</b>	21-February-2023	<b>Manuscript No:</b>	IPBJR-23-16443 (R)
<b>Published:</b>	28-February-2023	<b>DOI:</b>	10.21767/2394-3718.10.2.12

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**Citation** Bardia A (2023) Data Science and Geriatric Anaesthesia Research: Opportunity and Challenges. Br J Res. 10:12.

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tients during the procedure to avoid potential complications. Additionally, the proper dosing of the medication and monitoring of the patient's vital signs present significant challenges. Finally, the cost of general anesthesia can also be a barrier to some patients. Overall, while general anesthesia is a valuable tool in modern medicine, healthcare providers must carefully weigh the risks and benefits before administering it to their patients.

## ACKNOWLEDGEMENT

None.

## CONFLICT OF INTEREST

The author declares there is no conflict of interest.

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