


## The Critical Role of Introspective Analysis in Modern Research Practices

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### ABSTRACT

Introspective analysis is a crucial element in modern research practices, as it enhances the rigour, relevance, and ethical integrity of research practices across various disciplines. By examining the interplay between self-reflection and methodological approaches, introspective analysis fosters deeper understanding and critical thinking, encouraging researchers to confront biases, assumptions, and ethical dilemmas inherent in their work. Incorporating introspective practices into research design, data interpretation, and dissemination of findings can lead to a culture of accountability and transparency in research, promoting collaboration, and ultimately improving the quality and impact of scholarly outputs. This discourse underscores the necessity of integrating introspective analysis into the research process, positioning it as a vital component for advancing knowledge and addressing the challenges faced by the global research community. By engaging in introspective analysis, researchers can unearth underlying motivations that may affect their interpretation of data, selection of methodologies, and interactions with research participants. This reflective practice can lead to the refinement of research questions, ensuring they are not only relevant but also ethically sound. By engaging in self-reflection, researchers can confront their ethical responsibilities toward participants, stakeholders, and the broader community, fostering a culture of accountability and ensuring that researchers remain aware of their impact and obligations. In conclusion, the critical role of introspective analysis cannot be overstated as the research landscape continues to evolve. By embracing self-reflection as an essential component of research, researchers can contribute to more innovative and comprehensive solutions to complex problems.

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### ARTICLE INFO

#### Keywords:

Introspective, Modern Research, Introspective Nature

#### Article History:

Received: 12 Nov 2024

Revised: 19 Nov 2024

Accepted: 29 Nov 2024

Published: 10 Dec 2024

#### How to Cite in APA Style:

Adeoye, M. A., & Lere Omiwole, J. (2024). *The Critical Role of Introspective Analysis in Modern Research Practices*. *Educational Researcher Journal*, 1(2), 32–44



## Introduction

In the 21st century, research demands scholars to engage with their subjects and critically analyse their methodologies, biases and assumptions. Introspection involves a deep examination of one's thoughts and feelings, leading to more robust and credible research outcomes (Howitt & Cramer, 2010). It encourages researchers to question the validity of their findings and the methodologies they employ. Introspection helps researchers navigate complex ethical dilemmas and societal implications. It promotes a more nuanced understanding of the subject matter, enabling academically rigorous and socially responsible work. Transformative research lies in the ability to engage in critical self-reflection. Researchers who embrace this approach are better equipped to identify gaps in their knowledge, recognise the influence of their backgrounds and experiences, and adapt their research questions accordingly. This adaptability is crucial in addressing contemporary society's challenges. Introspective researchers foster a culture of transparency and accountability, enhancing the credibility of their research and contributing to a more inclusive scholarly dialogue. This is especially important in fields where marginalised voices have historically been overlooked or misrepresented.

Introspective analysis is a crucial tool in modern research practices, involving researchers actively engaging with their thoughts, feelings, and biases throughout the research process (Patnaik, 2013). This method enriches the research experience and contributes significantly to the integrity and validity of findings. The concept of introspection has roots in psychological theories and is gaining momentum as scholars recognise its potential to enhance qualitative and quantitative methodologies (Wertz, 2014). The introspective analysis serves multiple functions in research, including identifying biases that may skew data interpretation, grappling with ethical implications, and enhancing research rigour (Kim, 2015; Tshabangu et al., 2020). By adopting self-reflective practices, researchers can adopt a more holistic view of their work, leading to deeper engagement with the research process and a more nuanced understanding of complex phenomena. However, introspective analysis faces challenges such as potential subjectivity and time-consuming nature (Hackert et al., 2021). Researchers must balance personal reflection with objective analysis to ensure their insights do not cloud their interpretation of the data.

By reflecting on their values and the ethical dimensions of their research, scholars can make more informed decisions that align with ethical standards and respect the dignity of those involved. For example, a researcher conducting a study on marginalised communities must introspectively analyse their positionality and potential power dynamics at play. Introspective analysis is not only about mitigating biases and enhancing ethical considerations but also fosters innovation and creativity in research. By engaging in self-reflection, researchers can explore their creative processes and identify areas where they can think outside traditional frameworks. This encourages the questioning of established norms and methodologies, paving the way for the development of novel approaches and interdisciplinary collaborations. In an era where collaborative research is increasingly common, introspective analysis can play a crucial role in enhancing

team dynamics. Researchers must navigate diverse perspectives and working styles within collaborative settings, and engaging in introspective practices can improve communication and foster an environment of mutual respect and understanding. By reflecting on their contributions and recognising the strengths and weaknesses of their colleagues, researchers can cultivate a more inclusive and productive collaborative atmosphere, strengthening the research team and enriching the research output.

### **Historical Context in Introspective Analysis Evolution**

Introspective analysis is a crucial tool in contemporary research methodologies, as it enhances research quality, facilitates ethical practices, fosters interdisciplinary collaboration, supports adaptive methodologies and contributes to personal development (König et al., 2013; Omodan, 2024). This self-reflection approach helps researchers understand their processes and decisions, leading to heightened awareness of potential biases that may influence data interpretation or hypotheses (Glynn, 2017; Roy & Uekusa, 2020; Shufutinsky, 2020). In qualitative research, where subjectivity is often inherent, researchers' personal experiences and beliefs can colour the analysis (Hammersley, 2012). By engaging in introspective analysis, researchers can better understand how their perspectives shape their interpretations, improving the quality and validity of their findings. By reflecting on their motivations and the potential impacts of their research, scholars can identify any ethical dilemmas that may arise, promoting ethical standards and transparency (Holian & Coghlan, 2013).

Modern research often transcends traditional disciplinary boundaries, necessitating collaboration among diverse fields. Introspective analysis aids researchers in recognising and respecting the differing perspectives and methodologies that collaborators may bring, leading to more innovative and comprehensive solutions to complex problems (Xue & Desmet, 2019). Introspective analysis also supports adaptive research practices, enabling researchers to critically evaluate their methodologies and pivot as necessary. This adaptability is crucial in ensuring research remains relevant and impactful in an ever-changing world. In the early days of scholarly inquiry, research was primarily empirical with scholars like Francis Bacon emphasising systematic observation and deduction. This approach prioritised quantitative data collection and objective analysis, often favouring detachment from the subject matter.

As the 20th century unfolded, a paradigm shift began, primarily influenced by the rise of social sciences. Thinkers like Max Weber and Emile Durkheim introduced qualitative methodologies that acknowledged the complexity of human behaviour and societal structures (Durkheim & Weber, 2002; Meena, 2019; Weber, 2017). This era marked a departure from strict positivism, allowing for a more nuanced understanding of social phenomena. However, traditional research methodologies often maintain an implicit bias towards objectivity and detachment, which could obscure the intricacies of individual experiences and the subjective nature of reality (White & Cooper, 2022). In response to these limitations, introspective analysis has gained prominence as a vital research tool, particularly in fields such as psychology, sociology, and anthropology. This method encourages researchers to engage deeply with their thoughts, feelings, and biases while

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examining the subjects of their research. The advent of qualitative research methods during the late 20th century laid the groundwork for this introspective approach, which acknowledges the researcher's role as an integral part of the research process and invites a more authentic exploration of lived experiences (Finlay, 2013).

The rise of reflexivity, where researchers actively reflect on their positionality and the impact of their presence on the research, has become a cornerstone of modern research practices. By embracing introspective analysis, researchers can cultivate a deeper understanding of their subjects, enriching the overall quality of their work. Edward Titchener, a student of Wundt, further developed the introspective method within the framework of structuralism in the early 20th century (Beenfeldt, 2013). Titchener believed that the goal of psychology was to uncover the structure of the mind by breaking down conscious experiences into their simplest components. However, his reliance on subjective reports led to criticisms from emerging schools of thought, such as behaviourism which advocated for more objective measures of psychological phenomena.

### **Theoretical Frameworks Supporting Introspection**

The theoretical frameworks of phenomenology and cognitive psychology offer a solid foundation for introspective analysis in modern research practices. Phenomenology, a philosophical movement founded by Edmund Husserl and expanded by Martin Heidegger, emphasises the subjective nature of human experience and encourages researchers to engage deeply with participants' lived experiences (Vagle, 2018). This approach provides a rich tapestry of data that can inform theoretical development and practical applications. Cognitive psychology, which emerged in the mid-20th century as a reaction against behaviourism, emphasises the study of mental processes such as perception, memory, and problem-solving (Fleming, 2019). While traditionally favoured experimental methods and objective measurements, there is a growing recognition of the value of introspection as a complement to these approaches. Antonietti et al. (2015) revealed that introspective methods are integrated into the study of consciousness and metacognition, where researchers assess individuals' awareness of their thinking patterns, which can significantly impact learning and problem-solving strategies.

The intersection of phenomenology and cognitive psychology creates a robust theoretical framework for introspective analysis, leveraging the strengths of both disciplines. This synergy allows researchers to explore the interplay between individual cognition and the broader social and cultural contexts that shape experiences. For example, in studies examining mental health, the combination of phenomenological insights with cognitive assessments can yield a deeper understanding of how individuals perceive and cope with their conditions, fostering a more nuanced understanding of mental health that transcends traditional diagnostic categories. Introspective analysis is a crucial aspect of modern research practices, promoting deeper understanding, ethical engagement, and personal growth. Existentialism, a 20th-century philosophical movement, emphasises the importance of self-reflection in the research process, encouraging individuals to critically examine their beliefs, experiences, and existence (Leffert, 2020). This approach can lead to more authentic and comprehensive findings by acknowledging biases, motivations, and the subjective nature of inquiries.

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Existentialism's concept of "being in the world" emphasises the interconnectedness of individuals and their environments, encouraging researchers to consider how their personal experiences and societal contexts influence their research (Nelson, 2010). By reflecting on their background and experiences, researchers can reveal inherent biases and assumptions, allowing for a more nuanced understanding of the subject matter. This approach aligns with methodologies like phenomenology, which seek to understand phenomena from the perspective of those experiencing them. Introspective analysis also serves as a mechanism for ethical reflection in research practices, encouraging researchers to take responsibility for their actions and the consequences of their research (Aluwihare-Samaranayake, 2012). This accountability fosters a culture of ethical research, where scholars actively consider the implications of their work and strive to positively contribute to society. Furthermore, introspective analysis can catalyse personal and professional growth for researchers. Self-reflection encourages individuals to identify their limitations and areas for improvement, thereby enhancing their resilience and adaptability (Falon et al., 2021). By cultivating a habit of introspection, researchers can enhance their critical thinking skills, refine their methodologies and foster a more profound appreciation for the complexity of their work.

The research on introspective analysis aims to explore how self-reflection and critical examination of one's thoughts, biases, and experiences can enhance the rigour and integrity of research practices. The objectives include investigating methodologies used in introspective analysis within various research fields, assessing the impact of introspection on research outcomes, and providing a framework for incorporating introspective analysis into research design. The research's purpose is multifaceted, advocating for the inclusion of introspective analysis as a foundational element in research design, creating dialogue among scholars about personal biases and perspectives that shape research outcomes, and bridging the gap between theoretical frameworks and practical applications. In an era where objectivity and replicability are highly valued, introspective analysis offers a counterbalance by acknowledging the subjective elements inherent in the research process. By fostering a culture of self-reflection, researchers can cultivate greater transparency in their methodologies, which ultimately enhances the credibility of their findings. In addition, this research aims to contribute to ethical research practices, serving as a safeguard against unintended biases and misinterpretations. By encouraging researchers to reflect critically on their motivations and the implications of their work, this research promotes a more responsible approach to inquiry. The research also aims to enrich the understanding of research methodologies by incorporating introspective analysis into the conversation, encouraging interdisciplinary exchanges among fields such as psychology, sociology, and education. It fosters an appreciation for the role of reflexivity in research practices, challenging traditional notions of objectivity that have dominated scientific inquiry. This shift has the potential to inspire a new generation of researchers who prioritise self-awareness and ethical consideration as integral components of their work.

## **Method**

Systematic review methodology was used to conduct a comprehensive review of introspective analysis, a research method that aims to identify patterns, gaps, and implications within existing literature. This approach is particularly suitable for introspective analysis, as it allows for a thorough examination of existing studies while examining the critical role of introspective analysis in modern research practices. The process begins with defining research questions and how introspective analysis contributes to research quality and existing frameworks for incorporating introspection in research methodologies. The review then establishes inclusion and exclusion criteria, specifying the types of research and contexts relevant to introspective analysis. They conduct a comprehensive literature search using academic databases, journals, and other relevant sources, using keywords related to introspective analysis, reflective practices, and research methodologies. After gathering potential studies, the researcher screens them based on these criteria, narrowing down the selection to the most relevant and high-quality works that contribute to understanding introspective analysis. A critical appraisal is also conducted, identifying the strengths and weaknesses of existing research and providing insight into how introspective analysis can be better integrated into future research practices.

## **Results and Discussion**

### **Applications of Introspective Analysis in Modern Research**

Introspective analysis is a crucial tool for researchers seeking to gain deeper insights into human behavior, experiences, and social phenomena. It enhances the richness and depth of qualitative research by allowing researchers to reflect on their own biases, assumptions, and emotional responses to topics being discussed. This self-awareness creates a safe and open environment for participants, who may be sharing sensitive or personal information (Greene, 2014). Introspective analysis can help researchers understand a community's response to a social issue by identifying potential biases and blind spots, enabling them to seek alternative viewpoints or explanations (Pope-Davis et al., 2001). By incorporating introspective analysis into the process, researchers can reflect on their emotional responses to the data and the themes that emerge. This self-reflection aids in the identification of significant themes and enhances the validity of the findings.

Researchers who practice introspective analysis may find themselves questioning why certain themes resonate with them personally, leading to more profound insights regarding the data (Lumma & Weger, 2016; Saldaña, 2018). This reflective engagement ensures that the analysis remains grounded in the participants' experiences rather than being unduly influenced by the researcher's subjective feelings or assumptions. Introspective analysis is a crucial tool in modern research, particularly in quantitative research. This approach informs hypotheses by encouraging researchers to critically evaluate foundational assumptions that guide their research questions. For example, when formulating a hypothesis about social behaviour, researchers might examine their own experiences and biases related to the subject matter. Introspective analysis can also lead to the identification of research gaps that may not be immediately apparent through a purely empirical approach (Pekala, 2013). By engaging in self-reflection, researchers can pinpoint areas of inquiry influenced by personal or societal

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contexts, crafting hypotheses that are more robust and reflective of the complexities of the phenomena being studied.

This aligns with constructivism principles, enriching the quantitative research landscape. During the interpretation phase, introspective analysis becomes even more critical. Data can often present a stark, numerical portrait of reality but without the lens of introspection, researchers risk overlooking the subtleties and contextual factors that may influence the results (Hallowell et al., 2004). Reflecting on one's own biases or emotional responses during data analysis can lead to more thoughtful conclusions that consider not just the numbers but the stories behind them. Introspective analysis also aids in recognising patterns or anomalies within quantitative data that may otherwise go unexamined (Robertson, 2019). Researchers must balance their subjective insights with empirical evidence, ensuring that introspection serves as a supplement rather than a substitute for rigorous methodology. This balance can be achieved through systematic reflective practices, such as maintaining research journals, and peer discussions, and engaging with interdisciplinary perspectives that challenge personal viewpoints.

Introspective analysis helps researchers understand the subjective experiences of individuals within their social contexts, providing insights into how they interpret social realities. In sociology, researchers often use qualitative methods like in-depth interviews and reflective diaries to elicit personal narratives that reveal how individuals navigate and negotiate their identities. This approach also allows for addressing issues of power and privilege, as it encourages researchers to reflect on their biases and positionality. In anthropology, introspective analysis helps bridge the gap between researchers and subjects, allowing for a more holistic view of cultural dynamics and the influence of their presence on communities. For example, an anthropologist may document their feelings of discomfort or connection while engaging with local customs, incorporating these introspective insights into their analyses. This approach not only enriches the narrative but also encourages a deeper empathy for the subjects being studied. Neuroscience has also embraced introspective analysis, particularly in the study of consciousness and self-awareness. Researchers in this discipline recognise the value of subjective reports in complementing objective measurements of brain activity. For instance, neuroscientists might ask participants to engage in mindfulness meditation and describe their mental states during the practice. By correlating these introspective reports with neuroimaging data, researchers can gain insights into how different brain regions are activated during various states of consciousness.

In addition, introspective analysis can enhance our understanding of neurological conditions, such as schizophrenia or depression, by providing critical context that quantitative measures alone may overlook. By listening to patients' introspections, neuroscientists can identify patterns that inform treatment approaches and contribute to a more nuanced understanding of these complex conditions. Introspective analysis is often used in teacher training programs to encourage reflective journaling, where future educators document their experiences, thoughts, and feelings regarding their teaching practices (Mortari, 2012). This process not only enhances teaching effectiveness but also contributes to teachers' professional growth and job satisfaction. In addition, introspective

analysis is essential for students as they navigate their educational journeys. Encouraging self-reflection through methods like portfolio assessments and learning journals allows students to take ownership of their learning process, leading to improved academic performance and greater resilience (Campbell & Tran, 2021). Studies have shown that students who regularly engage in introspective analysis exhibit greater adaptability, an essential trait in today's rapidly changing educational landscape (Engberg, 2007; Mayhew et al., 2016; Meneely & Portillo, 2005; Redding, 2014).

In religious studies, introspective analysis offers profound insights into individual and collective spiritual experiences. Researchers use introspective methods to understand the subjective nature of faith, belief systems and religious practices, transcending the limitations of quantitative data. One prominent example is the examination of personal narratives and testimonies of individuals experiencing religious transformations or crises of faith. These narratives provide rich qualitative data that illuminate the complexities of belief, the role of community and the impact of cultural contexts on religious identity.

### **Challenges and Solutions**

Introspective analysis is a crucial aspect of modern research practices, requiring researchers to critically examine their thoughts, feelings and motivations. This process not only generates empirical data but also encourages self-reflection about methodologies, biases and the implications of their findings. However, integrating introspective analysis into research presents several challenges and limitations.

1. **Subjectivity in analysis:** Introspective analysis can lead to subjective interpretations that may skew research outcomes. To mitigate this, researchers should employ triangulation, combining multiple data sources and methods to validate findings. Peer debriefing and external audits can also introduce objectivity into the analysis.
2. **Inconsistent frameworks:** There is a lack of standardized frameworks for conducting introspective analysis, leading to variations in quality and reliability across different studies. Establishing clear guidelines and best practices for introspective analysis can help standardize the approach and foster consistency among the research community.
3. **Time-consuming process:** Introspective analysis can be time-consuming, potentially delaying research timelines and outcomes. Integrating introspective analysis into the research design from the outset can streamline the process.
4. **Resistance to change:** Many researchers may resist incorporating introspective analysis due to traditional academic norms that prioritize objective data. Encouraging a cultural shift within academic and research institutions through workshops, seminars, and training sessions can promote awareness and acceptance of introspective practices, enhancing research quality.
5. **Limited training and resources:** Researchers often lack the necessary training and resources to conduct effective introspective analysis. Institutions should provide training programs focused on introspective methodologies and self-reflection techniques, and create accessible resources like guides and toolkits.

6. Introspective analysis can raise ethical concerns, especially when researchers reflect on their biases or conflicts of interest. To address these, ethical guidelines should be established and institutional review boards should include protocols for addressing introspective reflections.
7. Introspective analysis can potentially overemphasize personal experience, potentially overshadowing empirical evidence. Balancing introspective insights with empirical data is crucial, and researchers should complement traditional methodologies.
8. The challenge of quantifying the outcomes of introspective analysis can complicate its impact on research findings. To address this, developing qualitative metrics and evaluation frameworks, using mixed methods can be helpful.

### **Benefits of Incorporating Introspective Analysis**

Incorporating introspective analysis into research practices can lead to several benefits, including encouraging reflexivity, enhancing research validity, and fostering ethical research practices.

1. Encouraging reflection on biases: Introspective analysis encourages researchers to critically examine their beliefs, experiences, and values that shape their approach to inquiry. This process helps identify preconceived notions that may skew their interpretation of data or lead to selective reporting of findings. For example, a researcher studying social behaviour may hold personal opinions that could impact their analysis of data collected from diverse populations. By employing introspective analysis, researchers can recognise these biases and take proactive steps to mitigate their effects, enhancing the credibility of their research outcomes.
2. Enhancing research validity: Introspective analysis promotes a more honest and transparent approach to data collection and interpretation. Researchers who actively engage in reflexivity are more likely to acknowledge the limitations of their perspectives, fostering a culture of openness. This transparency is particularly crucial in qualitative research, where the researcher's role can significantly influence outcomes.
3. Fostering ethical research practices: Introspective analysis fosters ethical standards in research by prompting researchers to critically examine the potential consequences of their work on individuals and communities. For instance, researchers working with marginalised groups must be acutely aware of the power dynamics at play. Engaging in introspective analysis allows researchers to reflect on their positionality and the potential impact of their findings on these communities, adopting a more ethical approach to ensure their work does not perpetuate harm or reinforce existing inequalities.
4. Introspective analysis can lead to improved methodological rigour, as researchers can assess the appropriateness of their chosen methods and consider alternative approaches that may yield more reliable data. This reflective practice can help in refining research questions, designing more robust studies and ultimately enhancing the quality of the results.
5. Incorporating introspective analysis can also facilitate collaboration and open dialogue among researchers. When researchers are encouraged to share their

reflective insights, it creates an environment where diverse perspectives are valued and considered. This collaborative ethos enriches the research process and fosters a sense of community among scholars.

6. Introspective analysis also contributes to the refinement of research design by identifying gaps in methodologies and making informed adjustments. For example, a researcher studying social behaviour may realise that their preconceived notions about certain groups could skew their data collection methods, ensuring that their research design is more inclusive and representative of diverse perspectives. This alignment between introspection and research design not only enhances the validity of the findings but also promotes a more equitable research environment.

### **Implications of the Findings for Future Research**

Introspective analysis is a valuable tool for researchers to explore their motivations and assumptions, leading to the development of novel research questions and methodologies. This process can generate novel research questions by examining biases and gaps in knowledge, such as the focus on technological solutions over social and ethical dimensions. This can broaden the scope of inquiry and foster innovation. Incorporating introspective analysis also enhances methodological rigour by allowing researchers to critically assess their methodologies, and identifying potential flaws or biases. This critical lens allows for a more nuanced understanding of the research design and the implications of the findings. For example, a study on public health might benefit from introspective analysis by prompting researchers to reconsider cultural factors that influence health behaviours, leading to improved and more culturally sensitive methodologies. Interdisciplinary collaboration can be fostered through introspective analysis, as researchers who reflect on their discipline and its limitations are more likely to seek out collaborators from other fields. This collaboration can yield innovative solutions to complex problems, driving innovation through collective insight. Aligning research with societal needs is another benefit of introspective analysis. By considering the perspectives of various stakeholders, researchers can ensure their inquiries are relevant and impactful. For example, a researcher in education may introspectively assess the effectiveness of their teaching methodologies in addressing diverse student populations, leading to more inclusive educational practices.

### **Conclusion**

Introspective analysis is a critical tool in modern research practices, enhancing the understanding of subjective experiences and enriching interpretative frameworks. By integrating introspection into methodologies, researchers can achieve a deeper comprehension of their subjects, leading to more nuanced and comprehensive findings. This approach fosters a greater awareness of the researcher's biases, assumptions, and motivations, allowing for a more transparent and reflective inquiry process. It encourages a holistic understanding of complex phenomena, particularly relevant in fields like psychology, sociology, and anthropology. Incorporating introspection can lead to the development of innovative methodologies that combine qualitative and quantitative data, fostering

interdisciplinary collaboration and broadening the scope of research inquiries. Researchers across various disciplines should embrace these techniques as a complementary approach, actively cultivating an introspective practice to enhance the depth of their studies and contribute to a more reflective research culture. Academic institutions and funding bodies should support the incorporation of introspective analysis into research training programs and funding proposals, promoting a culture of reflection that values both objective measurements and subjective insights. Future directions for introspective analysis include exploring the practical implications of introspective techniques in data collection, analysis, and interpretation, particularly in fields like education, health sciences, and cultural studies. As technology evolves, there is an opportunity to leverage digital tools and platforms to facilitate introspective analysis, such as virtual reality and artificial intelligence. Interdisciplinary collaborations could yield new insights into the role of introspection across different scientific domains, such as psychology, neuroscience, and philosophy.

### Acknowledgements

We would like to acknowledge ....

*(Recognize those who helped in the research including individuals who have assisted you in your study: advisors or other supporters, e.g., proofreaders, typists, and suppliers, who may have given materials. Do not acknowledge or mention the names of your co-authors).*

### Funding

This work was supported by the .... Fund (year).

*(Recognize the funding supporters of your research)*

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