

Applications of the Delphi Technique in Healthcare Research and Policy Development

V. Alparslan*

Department of Anaesthesiology, University of Kocaeli, Kocaeli, Turkey

*Corresponding author: V Alparslan, Department of Anaesthesiology, University of Kocaeli, Kocaeli, Turkey; E-mail: volkan.alparslan@kocaeli.edu.tr

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Description

The Delphi Technique, developed in the 1950's by the RAND Corporation, is a method of gathering expert opinions to reach a consensus on specific issues. It is a structured, iterative process that involves a series of questionnaires sent to a panel of experts, with the goal of refining and narrowing down responses until consensus is reached. This technique has been widely applied in a variety of fields, including healthcare research and policy development. Its ability to gather expert insights from diverse perspectives makes it an invaluable tool in addressing complex problems and shaping policies that impact public health and clinical practices. In healthcare, the Delphi Technique has demonstrated significant utility in areas such as medical decision-making, patient care guidelines, and public health policy.

Delphi technique in healthcare research

In healthcare research, the Delphi Technique is often used to build consensus among experts in order to guide clinical practices, define research priorities, and develop evidence-based guidelines. One key application of the Delphi Technique in healthcare research is in the development of clinical practice guidelines. These guidelines serve as evidence-based recommendations for healthcare professionals, aimed at improving patient outcomes and standardizing care. However, there are situations where empirical evidence is limited, or when the research is insufficient to form definitive conclusions. In such cases, the Delphi Technique can be used to collect expert opinions on best practices, treatment options, or diagnostic criteria. For example, in areas such as rare diseases or emerging health conditions, where robust clinical trials may not be available, experts in the field may provide valuable input on the most effective treatments or diagnostic approaches. A panel of specialists, including physicians, nurses, and researchers, may be asked to complete several rounds of questionnaires, allowing the group to discuss and refine their responses. Over time, consensus can be reached on the most appropriate practices for managing a particular condition, even when scientific evidence is limited. In addition to clinical practice guidelines, the Delphi Technique is also used to identify research priorities in healthcare. In many cases, healthcare research funding is limited, and researchers must prioritize which topics should be

studied to have the greatest impact on public health. Through the Delphi process, experts from various healthcare disciplines can be asked to rank or suggest research topics based on their potential to improve patient outcomes. The feedback from multiple rounds of expert input helps ensure that the most pressing and relevant issues are addressed in future studies. This approach has been particularly useful in shaping funding priorities for public health agencies, research organizations, and universities. The Delphi Technique is also applied in healthcare settings to assess the feasibility of new interventions, technologies, or policies. In evaluating the implementation of a new medical device or healthcare policy, a panel of healthcare professionals can provide valuable feedback on the practicality and potential impact of these innovations. The iterative nature of the Delphi process allows for ongoing refinement of ideas and strategies, resulting in more accurate assessments and recommendations.

Delphi technique in policy development

In the realm of healthcare policy development, the Delphi Technique serves as an important tool for shaping decisions that affect public health systems, regulatory frameworks, and healthcare delivery. Given the complexity and variety of factors involved in healthcare policy, policymakers often need to consult experts from multiple domains—public health, economics, healthcare delivery, and law. The Delphi Technique offers a structured way to gather insights from these diverse fields, ensuring that the perspectives of various stakeholders are taken into account. One of the key applications of the Delphi Technique in policy development is the formation of health policy recommendations. For example, in the case of responding to a public health crisis such as an infectious disease outbreak, experts from epidemiology, public health, and healthcare systems may be consulted to develop a consensus on the most effective policy responses. The Delphi process allows for expert input to be gathered on a variety of topics, including resource allocation, vaccine distribution, or quarantine protocols, and allows the policy recommendations to evolve as new information is gathered. In addition to crisis management, the Delphi Technique is also valuable for shaping long-term healthcare policies, such as those related to insurance coverage, healthcare access, or health system reform. Experts from different sectors of healthcare and government can participate

in the Delphi process to create a shared understanding of the most important issues and identify practical solutions. This can be particularly valuable in areas where there is a lack of agreement or clear direction, as the Delphi method helps to identify areas of consensus and areas that require further investigation or debate. Moreover, the Delphi Technique is used to inform policy decisions on the allocation of healthcare resources. By consulting a panel of experts, policymakers can gather input on how to allocate funding for specific healthcare initiatives, such as mental health services, preventive care, or maternal health programs. The iterative feedback process allows for a more refined approach to resource distribution, ensuring that the most critical areas are prioritized and that resources are allocated in a way that maximizes public health benefits. In the context of healthcare policy, the Delphi Technique also provides a platform for engaging stakeholders such as patients, caregivers, and advocacy groups. While experts may provide technical insights, involving patients and community representatives in the process helps ensure that policies reflect the needs and preferences of those directly affected by

healthcare systems. This collaborative approach is essential for creating policies that are not only scientifically sound but also socially acceptable and equitable. The Delphi Technique is a powerful tool that has found widespread use in both healthcare research and policy development. By gathering input from a panel of experts in an iterative and structured way, the Delphi Technique enables the development of evidence-based guidelines, the identification of research priorities, and the formulation of effective health policies. In healthcare research, the method helps build consensus in areas with limited empirical evidence, while in policy development, it ensures that multiple perspectives are considered when making decisions that impact public health. As healthcare systems around the world continue to face complex challenges, the Delphi Technique will remain an essential tool for informed decision-making and the advancement of both clinical practices and health policy. Through the ongoing collaboration of experts and stakeholders, the Delphi Technique helps create policies and guidelines that enhance patient care, improve health outcomes, and ensure the efficient use of healthcare resources.