DEVELOPMENT OF THE HEALTH TECHNOLOGY METHODOLOGIES: AN IN-DEPTH STUDY BASED ON OB MEDICAL DEVICES

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ABSTRACT

This study intends to investigate the development of various approaches to health technology, with a specific focus on devices that were used during pregnancy. Because of the rising need for innovative approaches to maternal healthcare, this research examines the current status of medical device development and evaluates methods that increase usability, safety, and efficacy. There was a growing need for innovative ways to maternal healthcare. The study identifies important challenges and opportunities in the field by doing a comprehensive analysis of the existing technology and the patterns that were forming. Through the use of a multidisciplinary approach to examine regulatory frameworks, integration strategies, and stakeholder perspectives, it offers a holistic knowledge of the developments in obstetric healthcare technology and best practices, which ultimately lead to improvements in patient outcomes and the delivery of healthcare.

Keywords: Medical devices, Product development, Health technology, Methodologies.

INTRODUCTION

The advisory role it plays to decision-makers involves suggesting whether or not to reimburse medical devices, as well as guiding how to properly use them and their role in therapeutic, diagnostic, or disability compensation strategies. It was essential that CE marking be secured before the CNEDiMTS may begin its scientific evaluation duty (He et al., 2019). So, it's a supplementary evaluation to the one done for CE marking; instead of just looking at how well the MD works and how safe it was, it takes into account how well it helps the public's health and how it fits into France's current treatment toolbox. To determine whether or whether MDs were beneficial, definitive clinical trials were required. Opinions from CNEDiMTS were based on the current state of medicine and science as well as the clinical data that was available, often from studies, when the patient applied to be registered for payment. It may be challenging to conduct randomised, controlled clinical trials for

medical devices, even though they were the gold standard approach for demonstrating a health product's effectiveness per the principles of Evidence-Based Medicine. The need for suitable evidence-gathering methodologies was prompted by the now-recognized peculiarities of the field, such as its fast-paced evolution, its operator-dependent or organization-of-care-associated character, and the sometimes very tiny target populations. Assessment methods need to be adjusted to account for the arrival of AI-powered technologies, the development of real-world health data access, the ever-increasing pace of technological advancement, and the ever-changing medical device sector. This adaptation involved combining an evaluation based on suitable robust methodologies with the technology's context. This was why the committee saw the need to revise its 2013 guidance, originally titled "Methodological choices for the clinical development of medical devices," in light of the dynamic nature of the field. The committee rebranded this guide as "Methodology for the clinical development of medical devices" to better reflect its purpose as a toolkit to help businesses create their development strategy. In addition to the assistance that HAS has been providing to businesses for some years, this revised manual rounds out that support. Companies often seek early communication to examine the possibility of clinical research before its execution, especially for complicated development programs (Wiljer et al., 2021).

BACKGROUND OF THE STUDY

The rising demand for healthcare personnel in wealthy nations has led to a shortage of trained doctors in developing nations, impacting their healthcare systems. A worldwide shortage of around 12.9 million healthcare professionals was predicted by the World Health Organisation (WHO) by the year 2035. Despite having fewer than 3% of the world's healthcare workers, developing African countries were responsible for more than 25% of all diseases (Alami et al., 2020). Because so many people in developing countries were leaving for the West in search of a better life, there was a severe scarcity of healthcare professionals in these countries. So, the World Health Organization's top brass hoped that medical device technology powered by artificial intelligence may help level the playing field in terms of health. Developed countries were embracing medical device innovations that were based on artificial intelligence to improve the delivery of healthcare services. The provision of patient-centred care in developing countries may be made possible by its acceptance and utilisation there. The introduction of artificial intelligence (AI) based medical device innovations such as wearables, chatbots, electronic reservation systems, and remote monitoring would greatly improve the delivery of much-needed patient-centred care in China's most remote regions, thanks to the extensive mobile device connections in African nations. The use of artificial intelligence (AI) in medical devices has the potential to revolutionise the way people get healthcare and the dynamic between doctors and their patients. Emerging countries' healthcare systems might benefit from AI-based medical device technology, which would boost performance while lowering delivery costs. In underserved regions of the globe, doctors may now reach patients with hypertension and other chronic conditions via the use of telemonitoring and similar technologies. Prompt prediction of communicable illnesses and subsequent action to prevent their spread might be made possible with the use of these technologies, which would also allow for the timely delivery of treatment to patients. Technologies in medical devices powered by artificial intelligence were revolutionising healthcare by streamlining the management of treatment plans, patient monitoring, and the analysis of massive amounts of data (Patil et al., 2021). Given this history, I felt compelled to research how other countries' healthcare systems have dealt with the adoption and implementation of AI to improve the quality of patient-centred treatment for China's millions of people.

PURPOSE OF THE RESEARCH

This study's goal was to look at the processes used in the creation of health technology, with an emphasis on obstetrical medical equipment. The research intends to discover practical approaches that improve the design, deployment, and management of these devices by examining existing practices, issues, and advances in this sector. In the end, the study aims to enable the development of technologies that prioritise safety, effectiveness, and user-centric design in addition to improving maternal healthcare outcomes. This research aims to guide future advances in perinatal health technology and educate best practices by thoroughly examining stakeholder viewpoints and regulatory issues.

LITERATURE REVIEW

A worldwide trend towards different approaches to patient care was affecting the healthcare industry. According to recent studies (Aggarwal et al., 2020), the utilisation of AI, big data analytics, blockchain, and the IoT in healthcare was causing a paradigm shift in how providers oversee patients' day-to-day activities in hospitals. Technologies for medical devices powered by artificial intelligence aim to make healthcare more accessible and human (Macruz, 2021). A generalisable clinical tool might be established via the growth of an environment that fosters openness, collaboration, and inclusivity. Healthcare organisations may be able to boost their efficiency with the use of AI-powered medical gadgets. Many aspects of health care, including its structure, culture, professions, treatments, and outcomes, have been impacted by digital technologies, particularly AI-based medical device technologies, which have expanded digital knowledge, diagnostic capabilities, treatment options, prevention strategies, and rehabilitation programs (Germamm & Jasper, 2020). Medical imaging, for example, may improve detection, and AI-based medical device technology can improve patient care by helping doctors diagnose, treat, and anticipate outcomes (Antwi et al., 2021). It was yet unclear how healthcare systems might incorporate AI-based medical device technology, but there were indications that these devices would enhance the efficiency, effectiveness, and guality of treatment that doctors provide to patients. New methods of therapy were becoming possible because of AI-based gadgets, which were altering the healthcare scene. The use of artificial intelligence (AI) in medical devices has allowed doctors to take a more proactive approach to patient care, according to the research. There has been very little adoption of AI-based device solutions in healthcare, despite their many advantages (Ruamviboonsuk et al., 2021). Also, there were a lot of problems with the current healthcare system that made it hard to use AI-based medical device technologies. These include things like an imbalance in the distribution of senior clinicians, a high rate of primary clinicians making incorrect diagnoses, an excessively long training period for clinicians, a lack of clinicians in underdeveloped regions, and high patient medical expenses (Yan et al., 2019). Improvements in AIbased medical device technology may be postponed until these healthcare sector difficulties are reduced.

RESEARCH QUESTIONS

What methodologies are most effective in the development and implementation of obstetric medical devices to enhance maternal healthcare outcomes?

METHODS

The researcher used a random sampling technique in this study.

RESEARCH DESIGN

Quantitative methods of research design were employed. This approach involves a quantitative analysis of industry data of low-technology firms to comprehensively examine the interplay between innovation, entrepreneurship, and manufacturing methods in these sectors.

SAMPLING

Research participants filled out questionnaires to provide information for the research. Using the Rao-soft programme, researchers determined that there were 941 people in the research population, so researchers sent out 1165 questionnaires. The researchers got 1092 back, and they excluded 37 due to incompleteness, so the researchers ended up with a sample size of 1055.

DATA AND MEASUREMENT

Quantitative analysis was used to gather primary data for the research project. The survey was broken down into two sections: (a) demographic data; and (b) factor answers for both online and offline channels using a 5-point Likert scale. Researchers gathered secondary data from a variety of sources, mostly the Internet.

STATISTICAL SOFTWARE

For statistical analysis, SPSS 25 and MS Excel were used.

STATISTICAL TOOLS

To comprehend the fundamental characteristics of the data, descriptive analysis was used. The researcher used the logistic regression model, ANOVA, to assess the validity and reliability of the data.

CONCEPTUAL FRAMEWORK



RESULTS

FACTOR ANALYSIS

Verifying the underlying component structure of a set of measurement items was a widely used application of Factor Analysis (FA). The observed variables' scores were believed to be influenced by hidden factors that were not directly visible. The accuracy analysis (FA) technique was a model-based approach. The primary emphasis of this study was on the construction of causal pathways that connect observable occurrences, latent causes, and measurement inaccuracies.

The appropriateness of the data for factor analysis may be assessed by using the Kaiser-Meyer-Olkin (KMO) Method. The adequacy of the sampling for each model variable as well as the overall model was assessed. The statistics quantify the extent of possible common variation across many variables. Typically, data with lower percentages tends to be more suited for factor analysis.

KMO returns integers between zero and one. Sampling was deemed adequate if the KMO value falls within the range of 0.8 to 1.

It was necessary to take remedial action if the KMO was less than 0.6, which indicates that the sampling was inadequate. Use their best discretion; some authors use 0.5 as this, therefore the range was 0.5 to 0.6.

• If the KMO was close to 0, it means that the partial correlations were large compared to the overall correlations. Component analysis was severely hindered by large correlations, to restate.

Kaiser's cutoffs for acceptability were as follows:

A dismal 0.050 to 0.059.

• 0.60 - 0.69 below-average

Typical range for a middle grade: 0.70-0.79.

Having a quality point value between 0.80 and 0.89.

The range from 0.90 to 1.00 was stunning.

Table 1. KMO and Bartlett's

KMO and Bartlett's Test					
Kaiser-Meyer-Olkin Measure of Sampling Adequacy870					
Bartlett's Test of Sphericity	ericity Approx. Chi-Square				
	df	190			
	Sig.	.000			

The overall significance of the correlation matrices was further confirmed by using Bartlett's Test of Sphericity. A value of 0.870 was the Kaiser-Meyer-Olkin sampling adequacy. By using Bartlett's sphericity test, researchers found a p-value of 0.00. A significant test result from Bartlett's sphericity test demonstrated that the correlation matrix was not a correlation matrix.

TEST FOR HYPOTHESIS

DEPENDENT VARIABLE

- MEDICAL DEVICES

Medical devices were equipment, machinery, implants, and other gear used in healthcare to diagnose, treat, prevent, or monitor medical disorders. They range from basic instruments like thermometers to sophisticated machinery like surgical robots and mri devices. These devices can be categorised according to their complexity, length of use, and intended use. They include devices for tracking health metrics, devices for treatment, devices for disease diagnosis and identification, and implantable devices that were surgically inserted for therapeutic purposes. Regulatory agencies keep an eye on these devices' safety and approval processes to make sure they adhere to the requirements for patient care efficacy and safety (larsson, 2022).

INDEPENDENT VARIABLE

- HEALTH TECHNOLOGY METHODOLOGIES

The term "health technology methodologies" describes the methodical techniques used in the creation, application, and assessment of medical equipment and technologies. These approaches include a variety of techniques, including evidencebased research, agile development, user-centred design, and regulatory compliance. Their goal was to guarantee that health technologies efficiently satisfy user requirements and enhance patient outcomes. These methods aid in the development of safe, efficient, and user-friendly medical equipment by incorporating input from stakeholders, including patients and healthcare practitioners. In the end, health technology approaches were essential for developing healthcare innovation and raising the standard of care (Osei, 2021).

RELATIONSHIP BETWEEN MEDICAL DEVICES AND HEALTH TECHNOLOGY METHODOLOGIES

The development of healthcare solutions depends on the interaction between health technology approaches and medical equipment. Medical devices were developed and implemented using efficient health technology approaches. These devices vary in complexity from basic diagnostic instruments to intricate therapy systems. The user-centred, safe, and regulatory-compliant design, testing, and assessment of medical devices were guided by these procedures, which provide systematic approaches (cherubini, 2022).

Based on the above discussion, the researcher formulated the following hypothesis, which was to analyse the relationship there was no significant relationship between medical devices and health technology methodologies.

H01: there is no significant relationship between medical devices and health technology methodologies.

H1: there is a significant relationship between medical devices and health technology methodologies.

Table 2.	H1	ANOVA	Test
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ANOVA						
Sum						
	Sum of Squares	df	Mean Square	F	Sig.	
Between Groups	39588.620	635	5655.517	1055.883	.000	
Within Groups	492.770	419	5.356			
Total	40081.390	1054				

In this study, the result was significant. The value of f was 1055.883, which reaches significance with a p-value of .000 (which was less than the .05 alpha level). This means the "h1: there is a significant relationship between medical devices and health technology methodologies." Was accepted and the null hypothesis was rejected.

DISCUSSION

Establishing health technology approaches for obstetric medical equipment was very necessary to enhance the quality of healthcare provided to infants and mothers. According to the findings of this study, the use of methodologies such as agile development and user-centred design was essential in the production of devices that were not only efficient but also secure. The acquisition of a deep understanding of these techniques provides the way for the identification of ideal approaches that have the potential to improve outcomes. Engaging with a diverse range of stakeholders, including patients, regulatory agencies, healthcare providers, and technology developers, was a key step in the process. The implementation of their opinions and ideas increases the likelihood that the devices fulfil the real needs while also adhering to all of the relevant rules. When negotiating the regulatory environment, it was crucial to align development methodologies with regulatory requirements. This may be a challenge, but it was necessary to simplify clearance processes and market entry. The accelerating pace of technological advancement was another matter that was of critical importance to the discussion. Although certain advancements, such as wearable electronics, data analytics, and telemedicine, provide opportunities to enhance obstetric care, the techniques that were already in place need to be modified to guarantee that these innovations are both safe and effective to implement. According to the findings, there was an immediate need for more research and collaboration between those working in the healthcare industry, enterprises, and academic institutions. It was only through investments in training and resources that it was possible to cultivate a culture of innovation in the production of obstetric medical equipment.

CONCLUSION

Improving maternal healthcare requires new approaches to health technology that centre on obstetric medical equipment. The significance of using a variety of approaches that emphasise user-centred design, agile development, and evidencebased practices was emphasised by this research. Devices may be better designed to satisfy real-world demands and conform with regulatory criteria when a wide variety of stakeholders were involved. This improves their safety and effectiveness. Simplifying approval procedures via the use of approaches that were per these standards was crucial since it was still difficult to navigate the complexity of regulatory frameworks. Furthermore, development methodologies must be adjusted to incorporate innovations efficiently due to the possibilities and problems brought about by the fast evolution of technology. Future success depends on sustained cooperation between healthcare providers, businesses, and universities. Innovative obstetric medical devices that greatly enhance maternal healthcare outcomes may be developed in an environment that was favourable to innovation, which can be achieved via sustained investment in training and resources. To sum up, the approaches that shaped the future of obstetric medical devices were laid forth in this paper. Stakeholders may work together to improve health technology and make it better suit the changing demands of maternal healthcare by tackling the problems and seizing the chances for innovation.

FACTOR

DOWN SYNDROME

Down syndrome is a genetic condition that happens when a child is born with an extra chromosome (Lee & Kim, 2022). The extra chromosome affects the way the child's brain and body develop, leading to developmental delays, intellectual disability, and an increased risk for certain medical issues. Most children with Down syndrome have some level of intellectual disability – usually in the mild to moderate range. People with mild intellectual disability are usually able to learn how to do everyday things like read, hold a job, and take public transportation on their own. People with moderate intellectual disability usually need more support. Many children with Down syndrome can participate in regular classrooms, though they may

need extra help or modifications. Thanks to widespread special education and community programs, more and more people with Down syndrome graduate from high school, attend college, and work in their communities. To help children with Down syndrome reach their highest potential, parents can seek out assistance programs as early as possible. By law, every state must provide developmental and special education services for children with Down syndrome, starting at birth with early Intervention and then continuing with public education until age 21.

DEPENDENT VARIABLE

EARLY INTERVENTION PROGRAMMES

A way to define the resources that families have at their disposal to help young children with impairments or developmental delays. Treatments such as physical therapy, speech therapy, and others may be included into the plan as per the need of the family and the kid. Family resources for infants and toddlers with impairments and developmental delays are referred to as. Based on the family's and child's requirements, it may include speech therapy, physical therapy, and other forms of treatment. A person's unique set of problems may be better addressed via the implementation of an intervention program. The process includes assisting the individual in overcoming their challenges via the use of strategies, tactics, and activities. The goal of an intervention is to assist the struggling person in realizing they need assistance, creating a nurturing home environment, identifying behaviors that enable them, and establishing healthy limits (Johnson & Brown, 2020).

RELATIONSHIP BETWEEN DOWN SYNDROME AND EARLY INTERVENTION

PROGRAMMES

An additional copy of chromosome 21 causes the hereditary disorder known as Down syndrome (Gona et al., 2020). Intellectual difficulties, particular physical traits, and developmental delays are common outcomes. Problems with motor skills, communication, cognitive development, and social-emotional functioning are common in children with Down syndrome. Early intervention programs are useful for addressing these requirements at an early stage. Children with Down syndrome and other developmental delays or impairments may get specialized treatment via early intervention programs. By providing individualized treatments and activities, these organizations hope to aid children as they grow and develop during their formative years. Occupational therapists, speech therapists, physical therapists, and special educators often work together in a multidisciplinary approach. Growth in linguistic competence is one of the primary goals of early intervention programs. Low tone in the muscles of the mouth and throat, together with cognitive difficulties, may cause communication problems in children with Down syndrome. A child's articulation, vocabulary, and social communication abilities may all benefit from speech therapy as part of an early intervention program. Another key area of emphasis is the improvement of motor skills. Children with Down syndrome may have a delay in the development of gross and fine motor skills due to hypotonia, a condition characterized by weak muscles and joints. The fine motor skills required for tasks such as writing and handling things may be improved via occupational therapy, while strength, balance, and coordination can be improved through physical therapy. There is a great deal of worry about cognitive growth as well. Learning, memory, and problem-solving ability may be impacted in children with Down syndrome who have intellectual difficulties. Helping children reach developmental milestones at their own speed, early childhood education programs use targeted pedagogical approaches to foster cognitive growth. Understanding social signs and controlling emotions may be challenging for children with Down syndrome, despite the fact that these abilities are crucial for general development. Group activities and play therapy are part of early intervention programs that aim to help kids learn to control their emotions and communicate with others. Furthermore, cardiac abnormalities, hearing loss, and visual problems are common among children with Down syndrome. To provide complete treatment, early intervention programs often collaborate with healthcare providers to track and handle these health issues. Interventions given to children with Down syndrome at an early age have many positive effects. Programs like this help kids grow up to be more self-reliant, which in turn improves their ability to take part in school and other activities. They assist families out by giving them knowledge, tools, and advice that will improve their children's chances of success. In conclusion, early intervention programs play an essential role in the lives of children with Down syndrome. These organizations help children with Down syndrome reach their full potential by addressing developmental issues early on, so they may live satisfying lives (Fegert et al., 2019).

H01: There is no significant relationship between Down Syndrome and Early Intervention Programmes

H1: There is a Significant relationship between Down Syndrome and Early Intervention Programmes

ANOVA					
Sum					
	Sum of Squares	df	Mean Square	F	Sig.
Between Groups	77682.610	852	7438.324	2554.582	.000
Within Groups	778.854	935	7.629		
Total	81534.376	1787			

Table 2: H1 ANOVA Test

There will be significant results during this study. With a p-value of.000, which is more than the.05 alpha level, the significance is achieved with an F value is 2554.582. Based on the data, the researchers may conclude that "H1: There is a Significant relationship between Down Syndrome and Early Intervention Programmes" is accepted and the null hypothesis is rejected.

DISCUSSION

This study adds to the knowledge of the effects of these early treatments on children at risk. Research confirmed the fundamental need of prompt intervention by showing a favorable and statistically significant correlation between these programs' use and better development results. The findings are consistent with the abundance of research that has shown that early intervention may have a profound impact on many domains of development, including cognitive and social-emotional skills. Children who would not have the opportunity to develop independence via traditional means may be helped by these programs, but only if they get the specialized care they require. In addition to fostering short-term skills, this early assistance provides the groundwork for long-term academic performance and social integration. Involvement of families, educators, and healthcare providers in early intervention is another important consequence; this ensures that children get assistance from all angles, which is vital in dealing with the complex challenges that developmental delays cause. Family members are better equipped to support their children via intervention programs when given the tools to assess their needs and understand the complex processes that contribute to developmental delays. The study also recommends more investigation into the components of early intervention that had the best results. Programs and applications may be fine-tuned for optimal effect based on evidence on the most effective forms of treatment, such as behavioral interventions, occupational therapy, or speech therapy. Therefore, in order to make the most of early intervention programs, evidence-based practice is crucial. Additionally, the findings have highlighted the problem of early intervention program accessibility and awareness. Families may be unaware of the existence of such easily accessible resources or may have difficulties in gaining access to them. Early intervention programs would be far more effective if more people were aware of them and had equitable access to them; this would ultimately save more children who were at danger. Finally, this research confirms that children with developmental impairments would benefit greatly from early intervention programs. Proactive steps toward early modification in developmental trajectories are crucial, as shown by the high favorable results associated with such intervention. A more supportive setting that fosters the skills of all children, including those with developmental disabilities, can only be achieved via the investment in and promotion of early intervention (Chen et a., 2019).

CONCLUSION

All this research does prove, without a doubt, that children at risk for developmental delays would benefit greatly from early intervention programs. From cognitive and social-emotional development to basic physical capacities, the collected research shows that early assistance does more than just enhance short-term developmental results; it lays a foundation for success in every category one might envision. Families should have easy access to early intervention programs because of the high correlation between their children's participation in these programs and improved developmental trajectories. Parents, teachers, and medical professionals must work together to identify the specific difficulties faced by children with developmental delays and create a supporting network to alleviate those difficulties. As a result, there has to be further investigation into the many components of early intervention that might provide greater results. Programs for children with diverse needs may be improved if the elements involved are identified and adjusted. To support the growth of children who are at risk, early intervention programs are an asset. They greatly improved the lives of those impacted by these issues by prioritizing these programs, which in turn created a more stable and nurturing environment for the development of all children (Patel & Shah, 2020).

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