

Strategy Document for the International Network to Improve Perioperative Care Academy (INIPC Academy): Evidence Based Data Driven Change

Background

The need for the **International Network to Improve Perioperative Care Academy (INIPC Academy)** stems from the critical challenges and opportunities in perioperative care worldwide. The founders of INIPC Academy, which have more than 20 years of experience in leading positions in multidisciplinary perioperative healthcare, identified major challenges and solutions striving to evidence based data driven improvements in perioperative care globally.

1. Variability in Perioperative Care

- **Challenge:** There is significant variability in perioperative practices between hospitals, regions, and countries due to differences in resources, training, and protocols.
- **Solution:** INIPC Academy can support standardize and disseminate evidence-based practices, reducing disparities and improving outcomes globally.

2. Rising Perioperative Demand

- **Challenge:** With an aging population, increasing rates of chronic diseases, and the growing number of surgeries performed globally, the need for effective perioperative care is greater than ever.
- **Solution:** INIPC Academy can address this demand by fostering innovation, research, and collaboration to meet the growing complexity of surgical patients.

3. Preventable Complications

- **Challenge:** Perioperative complications are common and often preventable, yet they significantly increase patient morbidity, mortality, and healthcare costs.
- **Solution:** INIPC Academy can lead initiatives to implement preventive strategies, reducing complications and improving perioperative outcome through education and tailored best practices.

4. Need for Multidisciplinary Collaboration

- **Challenge:** Perioperative care involves multiple disciplines—surgeons, anesthesiologists, nurses, physical therapists, pharmacists, and more. Lack of coordination often leads to fragmented care.
- **Solution:** INIPC Academy can promote interprofessional collaboration, ensuring seamless, patient- centered care through teamwork and communication.

5. Research Gaps

- **Challenge:** There is a lack of global, large-scale, high quality research focusing on how to improve perioperative care outcomes, particularly, but not limited to low- and middle-income countries where resources are limited.
- **Solution:** INIPC Academy can drive international research collaborations, ensuring the inclusion of diverse populations and contexts, thereby generating more applicable and robust data.

6. Education and Knowledge Sharing

- **Challenge:** Many healthcare professionals lack access to the latest research, guidelines, and training in perioperative care, particularly in resource-constrained settings.
- **Solution:** INIPC Academy can act as a hub for education and knowledge sharing, providing training, initiate research, resources, and opportunities for professional development.

7. Economic Implications

- **Challenge:** Perioperative complications and inefficient practices lead to significant healthcare costs worldwide.
- **Solution:** By improving perioperative care, INIPC Academy can help reduce these costs through better outcomes, shorter hospital stays, and more efficient resource utilization.

8. Global Equity in Perioperative Care

- **Challenge:** Low- and middle-income countries face disproportionate challenges in delivering safe and effective surgical care due to resource constraints.
- **Solution:** INIPC Academy can advocate for global equity, tailoring solutions to address resource disparities and improve access to safe perioperative care.

Conclusion

INIPC Academy is new healthcare initiative and crucial for fostering global collaboration, standardizing care, addressing disparities, evidence based data driven change and innovation and research in perioperative care. By uniting professionals, academic institutions, and organizations worldwide, INIPC Academy can lead the way to better patient outcomes and a more equitable healthcare system.

Vision

The International Network to Improve Perioperative Care Academy (INIPC Academy) envisions a world where every patient receives optimal perioperative care, leading to better outcomes by evidence based data driven change, reduced complications, and improved quality of life. Through collaborative research, education, the implementation of evidence based practices and interprofessional collaboration, INIPC Academy aims to transform perioperative care globally.

Mission Statement

INIPC Academy is committed to advancing the field of perioperative care through scientific research, education, and the tailored implementation of best practices realized by evidence based data driven change. We seek to unite multidisciplinary healthcare professionals, academic institutions, and global organizations to establish a global network dedicated to share knowledge to improving perioperative care, thereby improving patient outcomes across the world. INIPC Academy operates as a transparent, non-profit organization, reinvesting resources and seek collaboration with any partner to drive our mission forward.

Core Objectives

1. Scientific Research

- **Goal:** Advance and disseminate high-impact, innovative, and evidence-based perioperative care research.
- **Actions:**
 - Facilitate collaborative research initiatives across global institutions by connecting these institutions within the network, focusing on perioperative care improvements and multidisciplinary approaches.
 - Sponsor and promote research funding for high-priority areas such as patient safety, pain management, surgical techniques, and improve postoperative recovery.
 - Develop a generic standardized, low cost data tool within RedCap (or similar tools) to provide an unequivocal dataset for research and analysis.
 - Develop a central repository for perioperative research, ensuring accessibility to practitioners and institutions worldwide.
 - Organize global research conferences, symposia, and workshops that bring together experts from diverse (multidisciplinary) fields to discuss cutting-edge topics.
- **Key Metrics for Success:**
 - Number of research publications and their impact factor.
 - Volume and diversity of collaborative studies.
 - Growth of an accessible research database.

2. Education

- **Goal:** Provide accessible, high-quality perioperative education and training to multidisciplinary healthcare professionals across the globe.
- **Actions:**
 - Develop online educational platforms offering courses, certifications, and professional development opportunities in perioperative care.
 - Partner with academic institutions and healthcare organizations to offer accredited training programs, workshops, and seminars.
 - Focus on creating culturally appropriate educational content tailored to different regional needs and healthcare contexts.
 - Promote continuous education and specialization for multidisciplinary healthcare professionals at all levels of practice.
- **Key Metrics for Success:**
 - Number of multidisciplinary healthcare professionals trained globally.

- Rate of completion and success of educational programs.
- Positive feedback and outcomes from training programs.

3. Tailor-Made Implementation of evidence-based practices

- **Goal:** Support the local adaptation and implementation of evidence-based practices in perioperative care across diverse healthcare settings.
- **Actions:**
 - Collaborate with regional healthcare institutions to identify local needs and barriers to effective perioperative care.
 - Develop region-specific implementation strategies that align with local health policies, resources, and cultural contexts.
 - Facilitate the translation of global research findings into actionable guidelines for local healthcare teams.
 - Offer technical assistance and guidance to healthcare systems in low-resource settings to improve perioperative practices.
 - Develop a generic standardized, low cost data tool within RedCap (or similar system) to provide an unequivocal dataset for research and analysis.
- **Key Metrics for Success:**
 - Adoption of tailored perioperative practices in diverse regions.
 - Positive clinical outcomes from implementing region-specific interventions.
 - Feedback from local healthcare systems and patients.

4. Global Collaboration

- **Goal:** Foster an inclusive, collaborative global network of perioperative care professionals and all stakeholders, including patient advocates.
- **Actions:**
 - Build strategic partnerships with leading hospitals, academic institutions, and healthcare organizations across continents.
 - Create a platform for sharing and skills transfer in implementing science, best practices, research, and educational resources.
 - Encourage cross-border exchanges through collaborative research, clinical fellowships, and volunteer programs.
 - Establish a network of key opinion leaders (KOLs) who champion perioperative care improvements and serve as mentors to emerging healthcare leaders.
 - Support patient advocacy and participation

- **Key Metrics for Success:**
 - Number of partnerships and collaborations with healthcare organizations.
 - Increase in cross-border research and educational exchanges.
 - Growth in membership of the INIPC network.

5. Transparency and Non-Profit Commitment

- **Goal:** Operate INIPC with full transparency, ensuring the efficient use of resources and a clear focus on non-profit values.
 - **Actions:**
 - Establish clear governance structures to oversee the allocation of resources, ensuring they are directed toward research, education, and programmatic initiatives.
 - Publish regular reports on financial transparency, outcomes, and the impact of INIPC Academy's work.
 - Commit to maintaining an ethical approach to all activities, avoiding conflicts of interest.
 - Reinvest any surpluses into furthering the mission and expanding initiatives globally.
 - **Key Metrics for Success:**
 - Regular publication of transparent financial and impact reports.
 - Reinvestment rates into mission-driven activities.
 - Stakeholder satisfaction and trust in the organization's governance.
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Strategic Initiatives

1. Global Research Database

- Develop a digital platform that collates research on perioperative care, allowing for easy access by global practitioners and researchers. This platform will include publications, case studies, and clinical trial data to inform best practices.

2. Regional Innovation Hubs

- Set up and support regional hubs that focus on the specific needs of different areas, such as low-resource settings, high-income countries, or emerging economies. These hubs will serve as centers for implementation, education, training, and research tailored to their specific contexts.

3. Global Perioperative Care Conferences

- Host biennial global conferences that bring together leaders in perioperative care, researchers, and healthcare professionals from across the world to share knowledge, research, and best practices. Support active participation and collaboration in dedicated conferences organized by partner organizations

4. Leadership and Mentorship Programs

- Establish leadership and mentorship programs that connect experienced perioperative professionals with emerging leaders to foster growth, innovation, and continued improvement in the field.

5. Strategic partnerships

- Focus on developing innovative solutions to improving access and quality of perioperative care.

Implementation Timeline

1. Year 1:

- Formalize global partnerships.
- Launch the first wave of educational programs.
- Develop foundational research collaborations.
- Establish the first regional innovation hubs.

2. Year 2-3:

- Expand educational offerings and reach.
- Scale up the global research database.
- Launch the first global perioperative care conference.
- Solidify the organization's leadership and mentorship programs.

3. Year 4 and beyond:

- Continue to scale regional initiatives.
- Focus on long-term sustainability and funding.
- Expand influence and impact in underrepresented regions.

Conclusion

The INIPC Academy aims to create a comprehensive, collaborative, and sustainable model based on evidence based data driven change, for improving perioperative care worldwide. By focusing on scientific research, education, tailored implementation, and global partnerships, the network will improve perioperative care outcomes through evidence based data driven change, reduce disparities, and ultimately ensure that every patient receives the highest standard of care throughout the perioperative process.