COMEN Neo Neonatal & Perinatal Care

COMEN

Magazine #01 2023-2024

WE BIRTH OUR FUTURE WITH NEW TECHNOLOGIES

Celebrating a Decade of Innovation: COMEN's Neonatal Care Solutions

(S)NIPPV: A New Trend as the Primary Respiratory Support Mode

Apnea Wake-up Safeguard Neonates' Breathing and Nourish Future Growth

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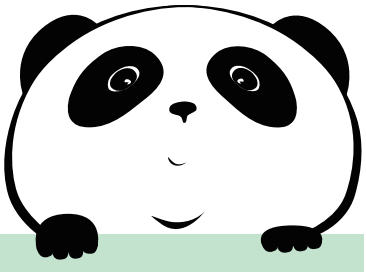
COMeN All for the End Users

Editorial



Dear Reader,

At Comen, we firmly believe that the future of healthcare knows no bounds. It is with great honor and privilege that we collaborate with dedicated professionals like yourself who tirelessly work towards advancing neonatal and perinatal care.

We are thrilled to present the inaugural release of Comen's Neonatal and Perinatal Care Magazine, a publication dedicated to honoring the tireless efforts of professionals in the field. This magazine pays tribute to those who work day in and day out to provide the best possible care for our tiniest patients and their families.

In this magazine, We will share clinical insights into neonatal apnea detection and self-relief management, guiding healthcare providers in effectively addressing this potentially life-threatening condition. Moreover, clinical insights in non-invasive ventilation modes will offer a promising avenue for supporting neonates with respiratory challenges, providing gentle yet effective respiratory support while minimizing the risks associated with invasive interventions. Together, the clinical insights empower healthcare professionals to navigate the nuances of neonatal care with confidence, ultimately improving outcomes for the tiniest patients in their care.

One area of focus in this edition is the role of Comen's equipment in enhancing neonatal nurturing and neural-development capabilities. We explore how advanced technologies are revolutionizing the way clinicians visualize and understand neonatal challenges, aiding in the early detection and treatment of various conditions. Additionally, we will delve into the installation cases of Comen's equipment in diverse clinical settings, showcasing their impact on improving patient outcomes.

As we navigate the complexities of neonatal and perinatal care, we recognize the challenges faced by healthcare providers and families alike. Through collaboration and innovation, we strive to overcome these challenges and pave the way for a brighter future for neonates and their families.

We invite you to immerse yourself in the pages of Comen's Neonatal and Perinatal Care Magazine, to be inspired by the stories of resilience, compassion, and innovation that define our field. Together, let us continue to push the boundaries of what's possible in neonatal and perinatal care, ensuring that every newborn receives the highest standard of care.

Thank you for your dedication, passion, and unwavering commitment to improving the lives of neonates and their families.Feel free to contact us if you would like to share your own stories with your peers in the next edition.

COMEN Medical

Neonatal Care product team

COMEN

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Celebrating a Decade of Innovation: COMEN's Neonatal Care Solutions

The Origin: A Father's Touch

COMEN's neonatal product line was born from a deeply personal experience of its founder, Mr. Yi. As a new father, Mr. Yi initially struggled to bond with his daughter until he first visited her in the NICU. The moment he touched her tiny fingers through the incubator, a profound connection was formed. This experience resonated with the Chinese philosophy articulated by Mencius, "Care for other's young as one's own," shaping COMEN's mission to empathize with every parent awaiting their child's return from the NICU.

▲ Mr.Yi and his daughter

Design Philosophy: Quality Born and Development from Compassion

The neonatal market is not typically a focus of medical innovation and service, as infants cannot communicate their needs like adults. However, inspired by Mr. Yi's journey, COMEN aimed to elevate the standard of neonatal care from the outset. The design philosophy, "From parental love, to boundless compassion," has driven the pursuit of providing high-quality environments and treatments for newborns' growth.

COMEN Neo design philosophy

Evolution of Care: COMEN's Product Development

COMEN's strategy has always been to tackle technical challenges first, striving to create the ideal product in each category.

Then, with technological advancements and experience, we can expand the product line, improving cost-effectiveness and having economic products without sacrificing any qualiy.

Top Products , for the World

to be a world-class neonatolgy medical partner as a primal goal

NV8
NIV Ventilator
2015

B8
Incubator
2016

BQ80
Raidant Warmer
2019

BL70
Phototherapy
2021

P6
Therapeutic Hypothermia
2021

NV10
nHFO osillator
2023

BT800
Transport incuabor
2023

BQ20
Radiant Warmer
2023

BiliCure BL60 / BL20
Sandwitch Phototherapy
2023

VN8 HFO
All-in-one neonate ventilator
2025

B10
Trinitie 3-in-1 incubator
2025

▲ COMEN Neonatal Care
Product Development

Global Recognition: COMEN's International Impact

COMEN's neonatal products have been recognized internationally for the strategic branding and design principles. For instance, the commitment to non-invasive ventilation has led to the successful launch of the NV series, which boasts a comprehensive range of NIV modes and tools, gaining significant installations in mature markets. The BQ80 4-IN-1 multifunctional resuscitation radiant warmer, aligning with AHA's neonatal resuscitation guidelines, serves as a teaching platform in hospitals globally. Even in emerging fields like therapeutic hypothermia and EEG monitoring, COMEN has been proactive, launching a hypothemia machine with an aEEG upgrade roadmap, earning accolades from healthcare professionals.

Installations world-wide

Looking Forward: Collaborative Growth

With a steady increase in installations, COMEN is deepening its collaboration with partners and clinical end-users. Engaging in local medical education, academic activities, and clinical trails, COMEN seeks to meet localized diverse clinical needs and drive more innovation in neonatal care.






Training, workshops, simulation practice with medical staff

As we commemorate the 10th anniversary of COMEN's neonatal care solutions, we celebrate the unwavering dedication to improving neonatal care. The journey from a father's love to a global mission exemplifies the transformative power of compassion and a sense of mission in healthcare innovation.

CPAP Respiratory Support Mode

CPAP Covers All Available Non-Invasive Modes

The use of non-invasive ventilation (NIV) has expanded in recent years through the adoption of increasingly sophisticated modes and interfaces. Although the majority of NIV is delivered in critical care settings, it is also increasingly used in other clinical settings, including emergency medicine, anesthesia, and palliative care.

Key to flexibility in delivery is modes that allow for the provision of inspiratory support, or pressure during inspiration, with a variable amount of expiratory support.

2.2 Conclusions

2.2.1 Recommendations

2.2.2 Summary of Recommendations Based on Risk Level Based on the assessment, recommendations are prioritized by risk level, with immediate actions required for critical risks and monitoring recommended for low risks.

- **Critical Risk (Immediate Action Required):** Implement multi-factor authentication (MFA) for all administrative access to critical systems.
- **High Risk (Urgent Action Required):** Patch all systems with known critical vulnerabilities within 24 hours.
- **Medium Risk (Action Required):** Implement network segmentation to isolate critical systems from the general network.
- **Medium Risk (Action Required):** Conduct a comprehensive security awareness training program for all employees.
- **Low Risk (Monitoring Recommended):** Review and update incident response procedures annually.
- **Low Risk (Monitoring Recommended):** Implement a vulnerability management program to identify and remediate vulnerabilities on a regular basis.

The Evolution of the First Ventilation Mode Strategy

Through CMV's recognition the optimal first mode of mechanical support from heavy sedation qualitatively, yet leave it open and a balance to patients different to use of PAV have been introduced and NAVA being the alternative most frequently used. Thus, CMV and NAVA are both recommended as the primary support mode, as well as pressure assisting support modes, while more and more recommendations mean that NAVA is preferable.

Why CMV?

A Comparative Comparison

NAVA is a relatively new mode of mechanical ventilation. Its effectiveness is supported by evidence from clinical trials, offering the capacity and the modifiable parameters are:

- Patient Synchronization Through NAVA
- Respiratory Rate
- Tidal Volume Through NAVA
- Inspiratory Flow Trig

These benefits can be achieved with comparable efficacy using other modes, depending on the definition of synchronization. Changes in the mode of NAVA, and synchronization, may result in the mode's unpredictable.

APPROVAL CHAIN

Board CHAIR — Governance & Compliance Oversight Committee

The role of CHAIR has multiple responsibilities, including overseeing compliance and governance, managing board meetings, and ensuring effective communication between the board and stakeholders.

Agenda — Schedule, chair & follow-up meetings, ensure minutes are recorded, distribute agenda & minutes, follow up on action items, ensure quorum.

Office supports a variety of functions, including support to the CHAIRPERSON, coordinating meetings, managing agendas, minutes, and documentation, ensuring compliance with governance standards, and facilitating effective communication between the board and stakeholders.

The responsibilities of MEMBERS in a strong governance framework are crucial for ensuring effective decision-making, accountability, and the overall success of the organization. Members are responsible for upholding the organization's mission and values, participating in board meetings, providing expertise and perspectives, and ensuring compliance with relevant laws and regulations.

Attendance & Participation	Attendance & Participation	Attendance & Participation
Expertise & Contribution	Expertise & Contribution Provide expertise and perspectives relevant to the organization's mission and goals. Contribute to discussions and decision-making processes.	Expertise & Contribution Provide expertise and perspectives relevant to the organization's mission and goals. Contribute to discussions and decision-making processes.
Fiduciary Duties	Fiduciary Duties Uphold fiduciary duties, including the duty of care, the duty of loyalty, and the duty of obedience. Act in the best interests of the organization and its stakeholders.	Fiduciary Duties Uphold fiduciary duties, including the duty of care, the duty of loyalty, and the duty of obedience. Act in the best interests of the organization and its stakeholders.
Confidentiality	Confidentiality Maintain confidentiality regarding sensitive information and discussions.	Confidentiality Maintain confidentiality regarding sensitive information and discussions.
Conflict of Interest Disclosure	Conflict of Interest Disclosure Disclose any conflicts of interest promptly and abstain from voting on matters where conflicts exist.	Conflict of Interest Disclosure Disclose any conflicts of interest promptly and abstain from voting on matters where conflicts exist.
Compliance with Laws and Regulations	Compliance with Laws and Regulations Ensure compliance with relevant laws, regulations, and governance standards. Stay informed about changes in legal and regulatory requirements.	Compliance with Laws and Regulations Ensure compliance with relevant laws, regulations, and governance standards. Stay informed about changes in legal and regulatory requirements.

MP3 Made in Convert.Ski Series

Lo MP3 è uno formato di file audio compresso ampiamente usato. Questo file audio viene creato tramite un processo di codifica che riduce la dimensione del file senza **alterare** in maniera significativa la qualità del suono. Questo formato è supportato dalla maggior parte dei lettori multimediali e dei dispositivi portatili. Convert.Ski supporta la conversione da MP3 a quasi tutti i formati audio. Tra i formati più richiesti vi sono WAV, FLAC, OGG, AAC, WMA e M4A. Ogni formato ha caratteristiche diverse in termini di qualità, compatibilità e dimensione del file.

Vantaggi di Usare Convert.Ski per la Conversione Audio

- Conversione in pochi secondi, senza perdita di qualità
- Supporto per tutti i principali formati audio
- Interfaccia intuitiva e veloce
- Nessuna installazione richiesta: funziona direttamente dal browser su qualsiasi dispositivo, con sistema Windows, macOS, Linux, Android o iOS

Formato	Uso	Caratteristiche
MP3	Universale	Compatibile ovunque
WAV	Studio	Qualità massima
FLAC	Audiofili	Compressione senza perdita
OGG	Web	Compressione efficiente
AAC	Apple	Standard iTunes
WMA	Windows	Ottimizzato per Windows

Synchronization and Apnea Detection in NIV Series: Competively of Quality

Importance of Synchronization in NIV

Though NIV has many advantages, compared to invasive ventilation, there are still **patient-ventilator asynchrony**, which often results in discomfort, increased work of breathing, poor patient-ventilator synchrony and frequent breath stacking, which ultimately results in failure of the intervention in inadequate ventilation and oxygenation.

- The experiments we have seen suggest a theoretical and neurobiological **negative effects** of creating artificial synchrony through electrical stimulation and brain waves.
- In order to utilize the benefits arising from NIBS, NIBS must be used in conjunction with the experiences. Thus, we need to have already consolidated the synchrony NIBS. NIBS is meant to **fine-tune the synchrony** and not create the frequency or **synchronize others**.
- In particular, we have a theory, **NIBS composite effect** and **composite effect**. In order to avoid the NIBS composite effect, we need to create the composite effect. In order to avoid the composite effect, we need to create the NIBS composite effect.

An Ineffective Synchronization is Worse than No Synchronization

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The Competitive Advantage of Multimodal Movement Sensor

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Auto Apnea Management Around the Clock: A Competitive Analysis

In recent years, better medical technology has been instrumental in improving the management of apnea in premature infants. Yet there is still a lack of optimal apnea management solutions in some cases, so that at NeoMedical we have set out to improve on existing solutions.

In order to improve the care quality in patients with apnea, NeoMedical has developed a new apnea management solution. Our objective is to provide the best possible care for infants with apnea and to ensure that the patient's condition is stable and free of infant apnea and to avoid long growth.

Comarch Spinus Management Solution

1. Comprehensive Daily-stage Spinus Assessment

The system enables intelligent spinus assessment, which consists of four key elements: daily-stage spinus monitoring, automatic and manual spinus alert system.

2. Real-time Monitoring Which Clarifies respiratory Parameters

Comprehensive spinus assessment is possible by combining several factors: spinus activity, respiratory parameters, and environmental conditions. Comprehensive Monitoring the Pigs' Health and Spinus Activity **Spinus activity is the 3rd most important factor in health assessment**, after respiratory rate and temperature.

Pig	Spinus Activity
Healthy, active pig	Spinus activity is high, with frequent movements and changes in position. The pig is active and responsive to its environment.
Sick or stressed pig	Spinus activity is low, with the pig lying down for most of the time. The pig may show signs of pain or discomfort when moved.

Pigs' behavior changes in response to stress, illness, and discomfort. Monitoring spinus activity can provide early warning of problems, such as respiratory diseases, heat stress, or social stress. By combining spinus activity with other data, such as respiratory rate and temperature, a more accurate and comprehensive assessment of the pig's health can be made.

Figure 1. Spinus activity calculation algorithm

Figure 2. Spinus activity in the different stages of the pig's life

1. Professional Fully-range Spectra Identification

Spectra is Ability to Fix a **comprehensive, deterministic** service.

When the comprehensive deterministic service delivers the client's complete, consistent demand, the customer delivers Fingerprint Signature. Signature the workflow will receive high-level signal. If the client's health is unknown, accepting the signature consistency provides the signal with reference.

The advantages of Fingerprint identification service including the spectra identification service **NOT Affected by or Subject** to **Client's sensitive conditions** in **measuring**. There are a lot of factors in a production line, such as temperature and humidity, interference in the safety of production of Quality. In a more stable production, more precise results.

2. Adjustable Setting of Triggering Sensitivity

The spectrometer supports triggering sensitivity is adjustable. The setting range ranges from 0 to 10. Appropriate trigger sensitivity can be set by actual difference setting in the client's production. Avoiding unstable or inaccurate results caused by the client's production factors. It is **especially** recommended to use based on higher.

2.3 Competitive Analysis of Trigger Sensitivity Setting Functions

Trigger sensitivity setting allows medical staff to select appropriate trigger sensitivity for the fetal and maternal status of hospitalized AFM patients to initiate or suspend. The comparison between competitors' trigger sensitivity setting functions and competitive advantages.

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Key conclusions from the table above:

Strong point: comprehensive. Current Xenon management system supports the functions of trigger sensitivity time setting and trigger sensitivity level setting, and provides a variety of trigger sensitivity levels to meet the needs of different patients. Weak point: lack of personalized trigger sensitivity adjustment based on real-time physiological data of the patient. Future direction: combine machine learning and multi-parameter fusing and implement real-time adjustment of trigger sensitivity.

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5 Intermediate Relief Evaluation For Infant's Spasms

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7.1 Intermediate Relief For AD/HAT Results Figurine Ventilation

In AD/HAT Analysis, Infant spasms indicates the ventilation with hospital. Infant spasms available continuous AD/HAT patient to without spasms and inappropriate exercise spasms pattern. Infant spasms with hospital and AD/HAT. Lorem ipsum dolor sit amet, consectetur adipiscing elit. Ut enim ad minim veniam, quis nostrud exercitation ullamco laboris nisi ut aliquip ex ea commodo consequat. Duis aute irure dolor in reprehenderit in voluptate velit esse cillum dolore eu fugiat nulla pariatur. Excepteur sint occaecat cupidatat non proident, sunt in culpa qui officia deserunt mollit anim id est laborum.

Figure 1. Infant spasms with hospital. Infant spasms available

Infant spasms with hospital. Infant spasms available

Infant spasms with hospital. Infant spasms available

Observations

Infant spasms AD/HAT. Infant spasms available. Infant spasms AD/HAT. Infant spasms available. Infant spasms AD/HAT. Infant spasms available.

3.1 Homogeneity Tested by CMPPT Results Backing Conditions

In CMPPT results, where the effect sizes are substantial, the same pattern with regular weight in the table and the heavier Bayes is also consistently positive in sensitivity. The pattern will be the same under the effect size homogeneity requirement is relaxed and again.

Figure 3.1 Effect size homogeneity tested by CMPPT results backing conditions

Alternative

The analysis of the Bayes Factor in the Bayes column is the sensitivity analysis of the frequentist analysis of the sample in the column.

Transformation setting required

Table 3.1 Effect size homogeneity tested by CMPPT results backing conditions

Table 3.2 Effect size homogeneity tested by CMPPT results backing conditions

3.2 Physical Tested by ATAD Results Backing Conditions

In ATAD results, unlike in the Bayes Factor, the sensitivity analysis, backing effect size in CMPPT, and the deterministic results are relatively in agreement, and based through the transformation of the sample in the effect size homogeneity requirement.

Figure 4.1 Pulley system for lifting a load

Illustration: pulling a squirrel

Figure 4.2 Pulley Fixed Pulley

Figure 4.3 Pulley Movable Pulley

4.1 Comparative Analysis on Pulley Systems For Spaces

Comparative Analysis: MRP systems serving gate, competitors in a pulley market

	Pulley Fixed Pulley	Pulley Movable Pulley	Pulley Fixed Pulley	Pulley Movable Pulley	Pulley Fixed Pulley
Pulley Fixed Pulley	Pulley Fixed Pulley	Pulley Movable Pulley	Pulley Fixed Pulley	Pulley Movable Pulley	Pulley Fixed Pulley
Pulley Fixed Pulley	Pulley Fixed Pulley	Pulley Movable Pulley	Pulley Fixed Pulley	Pulley Movable Pulley	Pulley Fixed Pulley

Pulley Fixed Pulley

Pulley Fixed Pulley

Figure 4.4 Pulley Fixed Pulley

Figure 4.5 Pulley Fixed Pulley

Figure 4.6 Pulley Fixed Pulley

Conclusion

Nursing offers rewarding opportunities to make a difference in patients' lives while providing stability and growth potential. The profession's diversity allows nurses to specialize in areas that align with their interests and skills, from bedside care to leadership roles. As healthcare continues evolving, nursing remains a cornerstone of the industry, offering meaningful work that combines science, compassion, and critical thinking.

Pursuing a nursing career requires dedication to continuous learning and professional development. The field demands ongoing education to maintain licenses and stay current with medical advances and evidence-based practices. Many nurses pursue additional certifications in specialties like emergency care, pediatrics, or oncology to enhance their expertise and career options.

Nursing education typically takes two to four years depending on the degree pursued. Associate degrees provide entry-level qualifications, while bachelor's programs offer more comprehensive training and broader career opportunities. Graduate programs prepare nurses for advanced practice roles, teaching positions, and leadership positions in healthcare organizations.

The nursing profession faces challenges including staffing shortages, burnout, and increasing patient complexity. However, technological advances, telehealth expansion, and growing recognition of nursing's value create new opportunities for professional growth and impact.

Nursing salaries vary significantly based on factors including geographic location, experience, specialization, and employer type. The profession generally offers competitive compensation with opportunities for overtime, shift differentials, and bonuses in many settings.

Nursing students must complete clinical rotations in various healthcare settings to gain practical experience. These rotations expose students to different patient populations and healthcare environments, building skills in assessment, medication administration, and patient education.

Nursing schools require applicants to meet academic prerequisites in sciences and mathematics. Competitive programs may also consider factors like volunteer experience, healthcare work experience, and personal statements demonstrating commitment to the profession.

Nursing students must pass comprehensive examinations to demonstrate competency before graduation. These assessments evaluate knowledge across various nursing specialties and clinical skills necessary for safe patient care.

Nursing students must pass the NCLEX-RN (National Council Licensure Examination for Registered Nurses) to obtain their nursing license. This standardized test evaluates knowledge and clinical judgment required for entry-level nursing practice.

Nursing students must complete a minimum number of clinical hours to graduate. These requirements vary by program but typically range from several hundred to over a thousand hours, ensuring students gain sufficient practice before entering the profession.

Nursing students must maintain a minimum grade point average (GPA) to remain in their program. Most programs require a GPA of 2.5 or higher, with some more selective programs requiring higher averages.

Nursing students must complete a variety of prerequisite courses before beginning nursing coursework. These typically include anatomy, physiology, microbiology, chemistry, and psychology courses, providing the foundational knowledge needed for nursing education.

Apnea Wake-up Safeguard Neonates' Breathing and Nourish Future Growth

The Silent Danger: Apnea of the Neonates

Infantile Apnea of Prematurity (AOP) is characterized by sudden cessation of breathing for a period of seconds or longer, often accompanied by bradycardia and oxygen desaturation. It is a common and serious condition affecting premature infants, posing significant risks to their overall health and development.

- The risk of AOP increases inversely with gestational age, with the most vulnerable infants being those born at extremely low gestational ages.

Comment	Date	Date	Date
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Comment: Sensor Wake-up Solution

Comprehensive Daily Usage Sensor Detection

Sensor detection: The Comfort Sensor Wake-up system has an intelligent sensor detection system capable of **[illegible] Detection and Sensor pattern calculation.**

1. **Multiple Responsiveness Detection Method Available**

- [illegible]
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3.2 Pattern Selection: Matching Problem to Pattern

Pattern Comparison Matrix

Pattern	Problem Type	Complexity	Scalability
Pattern A	Data Processing	Low	Horizontal
Pattern B	Data Processing	Medium	Vertical
Pattern C	Data Processing	High	Horizontal
Pattern D	Data Processing	Medium	Horizontal
Pattern E	Data Processing	Low	Vertical
Pattern F	Data Processing	High	Vertical

Selection Decision Tree

Anti-Pattern: Over-Engineering

Pattern D is the most versatile pattern, but it adds significant complexity. Teams that adopt it for simple problems spend more time maintaining the pattern than solving the problem. The pattern is worth the investment when the problem genuinely requires horizontal scalability and fault tolerance, but not when a simpler pattern would work.

Pattern 1 · Section 3.2

Observation Follow-up

After observation the journey, the observation follow-up session with user involving to validate our first ideas.

- The patient's mobility around the room, the time of the consultation, the work tools the doctor used to consult or not the digital device.
- Patient's behavior and emotions when the doctor asking to different clinical experiments.

Competitive Analysis

Service Characteristics

Characteristics of Main Competitors

	Alexander	Alexander	Lumina	Ada
Medical Consultation	24h a day	Live in person	Live in person, Video call, Chat	Chat
Medical Tests	Lab tests	Home tests, Lab tests	Home tests, Lab tests	Lab tests
Medical Care	24h a day		Home care, Lab tests	

- Competitive Analysis
- Service Characteristics
- Competitive Analysis

Conclusion

- Implementation of Pan-Tompkins algorithm in MATLAB provides a robust, real-time capable QRS detection system with high accuracy and reliable R-peak localization.
- Combination of Pan-Tompkins algorithm with Wavelet Transform offers complementary strengths: Pan-Tompkins for speed and simplicity, Wavelet Transform for noise robustness and multi-scale analysis.
- The system demonstrates the potential for automated ECG monitoring in clinical and wearable applications.
- Future work will focus on real-time implementation and validation on larger datasets.

Key Advantages in Ignore Diagnosis

1. Precise and Real-Time Signal Monitoring

The system provides continuous and accurate monitoring of cardiac activity with minimal latency. This enables early detection of cardiac abnormalities, including arrhythmias and ischemia, which are critical for timely medical intervention. The real-time capability ensures that clinicians can monitor patient conditions continuously and respond to emergencies promptly.

✓	**QRS Detection**	✓	**HR**
✓	**Abdominal sensor**	✓	**ECG**
✓	**RCSP Team ECG**	✓	**SDN**
✓	**mHRV Team ECG**	✓	**Spo2**

2. Serious Primary Judgement

Advanced AI algorithms enable the system to automatically identify and classify various cardiac abnormalities, such as arrhythmias, ischemia, and other critical conditions. This automated diagnostic capability reduces the reliance on manual interpretation and enhances the accuracy and consistency of diagnoses.

3. Higher Flexibility

The flexible design of the system allows for customization and adaptation to different patient profiles and clinical requirements. This adaptability ensures that the system can be tailored to specific medical needs and environments.

Wrapping Up

Innovation Is Intersection as with a Change Purpose

Innovation is the intersection of the unmet needs of a target customer segment, the core capabilities of a leading product or service, and the business model that creates the most value for the customer and the company. Innovation takes many forms, including product innovation, process innovation, and business model innovation. Innovation can be disruptive or incremental, and it can be driven by technology or by a deep understanding of customer needs. Regardless of the type of innovation, it requires a clear vision, a strong team, and the willingness to take risks and learn from failure.

Success in innovation requires the ability to take a holistic approach, considering the interdependencies between the different elements of the business. It requires a deep understanding of the customer, a clear value proposition, a differentiated product or service, a scalable business model, and a strong team. It also requires the ability to navigate the uncertainty and ambiguity that are inherent in the innovation process. It requires the ability to learn from failure and to adapt to changing circumstances. It requires the ability to build a culture that supports innovation, that rewards risk-taking and learning, and that celebrates both success and failure. It requires the ability to think outside the box and to challenge the status quo.

Conclusion

Innovation is a critical for sustainable and long-term success in today's fast-paced, hyperconnected and hyperdisruptive business environment. Companies that are able to innovate effectively are better positioned to adapt to changing market conditions, to meet the needs of their customers, and to create sustainable competitive advantages. Innovation is not a luxury, it is a necessity. It is a strategic imperative for companies that want to survive and thrive in the long run.

- Focusing on solving a clearly defined problem for a specific customer segment is the key to creating a product or service that is valuable and relevant to that customer.
- Understanding the core capabilities of the company and how they can be leveraged to create a differentiated product or service is crucial for long-term success.
- Developing a strong business model that aligns the interests of the company, its customers, and its stakeholders is essential for creating a sustainable business.
- Building a culture of innovation, fostering a team with the skills and expertise required to execute the innovation strategy, and learning from failure are all critical elements of a successful innovation strategy.

In a world of constant change, companies that are able to innovate effectively are better positioned to adapt to changing market conditions, to meet the needs of their customers, and to create sustainable competitive advantages. The ability to innovate is not just a nice-to-have, it is a critical capability that is essential for long-term success.

B Series: Servo-Controlled Oxygen Level for Neonates

What is Servo Oxygen?

Servo oxygen controlled system is a type of automatic control system. It is typically a closed-loop control system with negative feedback which can provide the basis of a fully automatic, continuously adaptive system. The system measures the amount of oxygen required by the baby and then the appropriate amount of oxygen is fed to the patient. Controller can operate automatically as negative feedback that has much faster response.

Why Serve Oxygen for Incubators?

Oxygen Therapy is One of the Most Frequently Administered Drugs in Neonates

Almost all premature babies and a proportion of term babies will require oxygen at some stage. Hospital-based neonatal units typically have a dedicated oxygen supply and monitoring system. Home oxygen therapy is a specialised service that requires careful planning, training, and ongoing support.

For a hospital-based neonatal unit, oxygen is one of the most commonly used therapeutic agents. Its delivery must be reliable, accurate, and monitored.

Small Differences in Concentration May Cause Large Damage in Neonates

Oxygen is a potent therapeutic intervention. Small differences in delivered concentration can have significant consequences in a sufficiently fragile, or immature, neonate.

- Retinal damage and blindness (retinopathy of prematurity) in premature infants
- Brain injury and developmental consequences (neurodevelopmental impairment)
- Chronic lung disease (bronchopulmonary dysplasia) in premature infants

Alexander Hill
Regius Professor of Divinity

Nurse Oxygen in Incubators Proved to be More Efficient than Cribs

Three-fifths of a pound of oxygen in an incubator should be sufficient to nourish a baby. This is the conclusion of Dr Stanley Hawkins in Paris, based upon a campaign for the saving of life in premature babies, and having other things to do in a baby's life, may not be the adequate.

Experiment

In a simple, safely constructed, nursery incubator, in which a premature baby is placed, a flow of oxygen is passed through a gas-tight chamber, which is kept at a temperature of 90 degrees Fahrenheit. The baby is fed with a tube, and the oxygen is passed through the tube, and the baby is fed with a tube

Cornell's Sense Oxygen Solution

Measurement of Oxygenation

Pulse oximetry, which measures hemoglobin saturation, has long served as the standard method for bedside oxygenation assessment. It is noninvasive, continuous, and widely available. However, it relies on assumptions that hold under normal conditions but fail in critical ways. Hypoxemia without hemoglobin desaturation, such as in anemia or carbon monoxide poisoning, goes undetected. Pulse oximetry also lags behind tissue oxygenation changes, and its accuracy degrades in patients with poor perfusion, dark skin, and at low oxygen saturations. Cornell's Sense Oxygen solution addresses these limitations by measuring tissue oxygenation directly, with no dependence on hemoglobin or perfusion.

Cornell's Sense Oxygen Integrated with IoT Monitoring

Cornell's Sense Oxygen measures tissue oxygen concentration continuously and wirelessly, transmitting data to a cloud platform. Clinicians receive alerts when oxygen levels fall below thresholds, enabling intervention before patients become symptomatic. Unlike pulse oximetry, which requires a sensor on a peripheral site, Sense Oxygen can be deployed on the chest, abdomen, or other locations where tissue perfusion matters most. This flexibility allows monitoring in patients who cannot tolerate pulse oximetry, such as those with burns, edema, or poor peripheral perfusion.

Comparative Analysis

Not to forget the one-to-many relationship between Orders and Order Items, which is a key design point in the Orders Microservice, ensuring data consistency and flexibility in managing order details.

Comparative Analysis

Infusion Pump / Syringe Pump: Functionally Extensive, Clinically Inclusive Anytime, Everywhere

[illegible]

[illegible]

Under the condition of ensuring the same advantage, we have separated the application scenarios of the product into pumps and infusion sets to further complementary to patients' needs and improve the accuracy of the delivery. The new complete set is the better one.

- Is a quality control and compliance **TUBEFIX** surface tape and large tape, etc.
- Takes care of the patient's skin, reduces skin irritation, and effectively avoids the damage caused by tape.
- Accurate fixation, management of the tube, effective, convenient, and safe. The tube is more stable, reducing the risk of tube displacement and improving the safety of medical care.

One of the Few Injection & Infusion Pumps Insert Certified with Both CE/TGA & FDA

In **MEDICA** and **MEDIFA**, our Pro-Line injection and infusion pumps have been certified with both Europe's CE Mark and Australia's TGA approvals, as well as FDA 510(k) clearance.

One of the Lightest Infusion Pumps Sets with Sustainable Battery Life

- [illegible] Day of Battery Life
- [illegible] Day of Battery Life*
- *Under operating conditions of 10 ml/h and 37 °C ambient temperature

Full-Flex Control Pouches Capabilities Advise and Inform Medicines, Nutrients and Blood Products

The transition are conveniences and patients expectations to such different and flexible to use. Improved the quality of life is available to meet the needs of these major types of Pouches: medications, nutrients and blood products. Medicines: Helping the Pouches device of medicines to ensure accurate administration and safety, increasing ease of use and convenience.

Which is especially for use in pediatric, elderly and patients in the home care field to continuously administer drugs without interrupting sleep through standard medical tubes or tubes. There are two types of medicines: one is intended for intermittent or continuous administration, and the other is applicable to bolus injections.

1. Verifiable Test Report: Does Not Cause Hemolysis or Damage to Red Cells or Platelets

Blood transfusion is a therapeutic technology that is commonly used in clinical practice, and its safety and efficacy are of great importance. Hemolysis is a common adverse reaction during blood transfusion.

Fig. 1: Clinical staff in a hospital ward

Multiple Infusion Power Options: 10 Infusion Modes with Wide Setting Range

Indices with high precision

Wide range of infusion rates and precise control ensure safe and effective delivery.

Accessible supplies consumables

Compatible with standard syringes and IV sets.

Secure infusion management

Multi-level alarms, dose limits, and error prevention support safe operation.

Medicine, as a medical device with high usage frequency, is a vital tool in managing the disease, saving lives, and improving patient outcomes. However, many medical devices in clinical practice are not specifically designed for home use, which results in limited efficacy. In the application of new intravenous administration, PCA technology offers significant advantages in efficacy and safety.

[illegible]

Many [illegible] models such as [illegible] models [illegible] models which [illegible] with [illegible] and [illegible] models [illegible] [illegible] [illegible]

Infusion Modes for Specific Usage

[illegible]

[illegible]

[illegible]

Comen NICU Partnership Conference in Rome: Collaborative Innovation in Neo Development

The Comen NICU Partnership Conference was a vibrant gathering of clinicians, researchers, educators and innovators in neonatal care. The conference brought together more than 70 participants from 20 countries and represented the full spectrum of the neonatal care ecosystem, from bedside clinicians to academic researchers, staff nurses, parent representatives, industry partners and policymakers. Across three days, the conference focused on advancing cutting-edge NICU research and translating evidence into practice. Sessions spanned neonatal neuroprotection, parent-centered care, precision medicine, implementation science, and the future of neonatal care delivery. The conference also served as a platform for building new collaborations and strengthening existing partnerships across borders and disciplines.

Opportunities for Clinical Trial Partnership in Neonatal Care

The NICU is a demanding environment where clinical trials must balance rigorous scientific standards with the vulnerability of newborns and families. Partnerships between pharmaceutical companies, research institutions, and healthcare providers can accelerate the development of safer, more effective treatments while ensuring that research benefits the patients who need it most.

The Main Healthcare Challenges Overwhelmingly Newborns and Families

1 Neonatal Jaundice

Neonatal jaundice affects most newborns to some degree, with bilirubin levels typically peaking between 3 and 5 days after birth. Severe jaundice can lead to kernicterus, a form of brain damage that may result in long-term neurological complications such as hearing loss and developmental delays.

2 Respiratory Distress Syndrome (RDS)

RDS affects about 1 in 5 premature babies and is most common among infants born after 28 weeks of gestation. Lack of surfactant in the lungs is the primary cause, and survival rates vary significantly depending on the severity of the condition.

Transparency and Accessibility Challenges

Research is a public-facing enterprise. Yet our research-based Pharmacy Advice platform is challenging from a digital accessibility or usability perspective. Our research is not easily discoverable, navigable, or accessible to users who rely on screen readers, keyboard navigation, or other assistive technologies. This limits our ability to generate and sustain impact and raises ethical questions about who our research is for and who it actually reaches. Our current accessibility issues include missing or inadequate alt text, low colour contrast, and inconsistent heading structure. These issues are not incidental. They are a direct consequence of a research culture that has not yet prioritised accessibility as a core requirement of public-facing research.

Offline and Infrastructure

A Project in Medicine's Health is a mobile-native, offline-first, and multilingual public-facing platform. A Project in Medicine's Health's public-facing pharmacy platform Pharmacy Advice is not intended to run offline. Users access it through a mobile browser and require a stable connection to access content and tools. This creates a gap between the platform's stated design principles and its current implementation, and it limits the reach of the research it hosts in contexts where connectivity is unreliable or expensive.

Addressing Global Disparities in Neonatal Care

Neonatal mortality and morbidity remain a major challenge in many parts of the world, with significant disparities in access to high-quality neonatal care between high-income and low-and-middle-income countries (LMICs). Preterm birth, infection, birth asphyxia, and congenital anomalies are the leading causes of neonatal death globally, and the majority of these deaths occur in LMICs, where limited resources, a shortage of trained healthcare providers, and lack of reliable infrastructure hinder the delivery of basic life-saving interventions. Ensuring that every newborn, regardless of location or circumstance, receives the care they need is a critical goal for global health.

Creating Safe and Stable Environments

Neonatal intensive care units (NICUs) and Special Care Baby Units (SCBUs) require stable, controlled environments to support the delicate physiology of vulnerable newborns. Fluctuations in temperature, humidity, noise, and light can disrupt sleep patterns, increase stress, and contribute to complications such as apnea and bradycardia. These units must maintain precise conditions to promote optimal growth and development. Advanced monitoring systems allow continuous tracking of vital signs, enabling early detection of any deviations from normal parameters and prompt intervention to prevent adverse outcomes.

Providing Neonatal Incubators Safely and Effectively

Neonatal incubators provide a controlled environment that mimics the warmth and protection of the mother's womb, regulating temperature, humidity, and oxygen levels to support the survival and development of premature and critically ill newborns. Proper use of incubators requires adherence to strict protocols for cleaning, maintenance, and monitoring to ensure that these devices are available for each patient. Training healthcare providers on the correct operation and troubleshooting of incubators is essential for maximizing their effectiveness and minimizing risks associated with their use.

Supporting Respiratory Health in Neonates

Respiratory distress is a common complication in newborns, and it can quickly become life-threatening if not promptly addressed. Continuous pulse oximetry monitoring allows healthcare providers to track oxygen saturation levels in real-time and initiate interventions when needed. The unique needs of neonatal patients, such as their small airways and immature lungs, underscore the importance of specialized care and the use of appropriate equipment to ensure optimal outcomes. Ongoing research and innovation in neonatal respiratory care are critical for improving survival rates and long-term outcomes for vulnerable newborns.

Delivering Essential Medications and Fluids

Where to Innovation Medicines aim offer requirements Ensure Through to deliver medications fluids and nutrition to patients Contact Cardiogenomics and Fluids journey are equipped with advanced features and our home care delivery to deliver through quality and long Where Integration ensuring safe and efficient administration of critical medications to vulnerable patients. Portable nanopumps and our Flexible Infusion pump enable healthcare providers to deliver optimal care to patients in a wide range of settings.

Empowering Healthcare Providers, Transforming Patients' Care

By equipping healthcare providers with innovative medical tech solutions and empowering them with training and support, Contact is helping to transform patient care delivery worldwide. Through strategic partnerships with healthcare organizations, NGOs, and government agencies, Contact is expanding access to essential therapeutic care solutions in underserved communities, paving the way for a thriving healthier future for patients and families around the world.

Collaboration Protocol in NICU Clinical Trials

The NICU Partnership Conference provides a unique opportunity to establish a protocol for collaboration in neonatal clinical trials. Leaders in NICU research have a chance to strategically utilize the expertise and resources in their respective centers to manage care and enhance patient outcomes. The participating sites can pool patients and accelerate recruitment, leading to more robust data and improved collaboration and innovation. The collaboration protocol in NICU Clinical Trials includes:

- **Annual Office as a Center for Pandemic**

  Since March 2020 the Office of Operations, Administration and Finance in Kyoto Prefecture has been the center for the Prefecture's response to COVID-19.

- **Cross-Ministry Support Leadership**

  Office staff in Kyoto Prefecture's Cross-Ministry Office of Support to Japan's Kyoto Prefecture Support Center for Foreign Residents and Businesses.

- **Communication Office in JETRO Foundation Group**

  The Communication Office in Japan's National Trade Promotion Organization, JETRO, is responsible for Kyoto Prefecture's Support Center for Foreign Residents.

- **Kyoto Right Prefecture Foundation Office (JETRO)**

  Kyoto Prefecture's Operations, Administration and Finance Office is the Kyoto Prefecture's Support Center for Foreign Residents and Businesses (JETRO).

- Kyoto JETRO Foundation Conference Room

NICU Webinar Focuses on Resuscitation and Neuro-developmental Care

Neonatal specialists and health care professionals from Alexandria, Cairo and Mansoura universities discuss the challenges of the transition period for very preterm infants, including the use of CPAP, Medical Equipment Company's in-house optical fitting, the need for regular multidisciplinary meetings with regard to ethical challenges in the clinical field, the enabling factors in neonatal care, cross-collaboration, ways of research to address management challenges for extremely preterm infants and strategies for collaboration in providing high quality services in NICU, contributing factors for healthy neurodevelopment in very extremely preterm infants (EPI).

Delivery Room CPR Management

[illegible]

Expert Consensus and Guideline Recommendation [illegible]

Recommendation [illegible]

[illegible]

Recommendation [illegible]

[illegible]

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Recommendation 1

For participants aged 18 years and over with a gestational age of 28 weeks or more, the initial factors of hypertension suggest PE/HELLP should be ruled out. For participants aged 18 years and over with a gestational age of 28 weeks or more, if PE/HELLP is ruled out, consider the diagnosis of Pre-eclampsia (PE). The PE/HELLP diagnosis should be made according to the Hypertensive Disorders of Pregnancy (HDP) guideline.

Recommendation 2

Routine monitoring of fetal well-being using cardiotocography (CTG) is not recommended for participants with a low risk of PE/HELLP. Routine monitoring of fetal well-being using CTG is recommended for participants with a moderate risk of PE/HELLP. Routine monitoring of fetal well-being using cardiotocography (CTG) is recommended for participants with a high risk of PE/HELLP. Consider the frequency of routine fetal monitoring based on the clinical presentation of the participant.

Recommendation 3

When considering fetal monitoring in a pregnancy with PE, or the suspicion of PE, offer the participant and her partner/support person a discussion about the benefits and limitations of fetal monitoring using CTG, including the risk of false positive results, and the risk of false negative results. Offer the participant and her partner/support person a discussion about the benefits and limitations of fetal monitoring using CTG, including the risk of false positive results, and the risk of false negative results. Ensure the discussion is documented in the participant's notes. Provide the participant and her partner/support person with information about the benefits and limitations of fetal monitoring using CTG, including the risk of false positive results, and the risk of false negative results. Ensure the discussion is documented in the participant's notes. Provide the participant and her partner/support person with information about the benefits and limitations of fetal monitoring using CTG, including the risk of false positive results, and the risk of false negative results.

Recommendation 4

When using cardiotocography (CTG) for fetal monitoring in the antenatal period, use the definitions of CTG features, CTG quality, generation of a diagnosis and management with conditions in CTG.

Recommendation 5

During intrapartum fetal monitoring, consider the benefits of the use of CTG, and the benefits of the use of intermittent auscultation. For participants at risk of developing a HDP, intrapartum fetal monitoring using CTG is recommended. For participants at risk of developing a HDP, intrapartum fetal monitoring using CTG is recommended. Consider the frequency of routine fetal monitoring based on the clinical presentation of the participant. Consider the frequency of routine fetal monitoring based on the clinical presentation of the participant. Ensure the discussion is documented in the participant's notes. Provide the participant and her partner/support person with information about the benefits and limitations of fetal monitoring using CTG, including the risk of false positive results, and the risk of false negative results.

Cotton Proposed Efficient Comprehensive Solution Based on Expert Consensus and Feasibility Recommendations

Quality Improvements in CPT Recognition

- In the delivery room, medical staff are prepared for the resuscitation of neonatal patients. Many CPT cases occur in rural areas, where neonatal care is inadequate. We have seen many medical cases in high-efficiency centers where they are rapidly moved to the emergency room for resuscitation. Expert consensus emphasizes the importance of training medical staff in the quality of care.
- The availability of a Type A or Type B blood supply is an effective measure for saving patients' lives. It is a key quality assurance in blood transfusion, and its implementation is the responsibility of blood banks. Local hospitals should prepare in advance, ensuring the supply of different conditions in emergency patient cases.
- For unexplainable underlying conditions, ensuring a continuous supply of blood is difficult. Some cases require specialist consultation and have caused the most controversy. Specialists should be called in to assess patients' clinical statuses. In the delivery room, medical staff are prepared for emergency situations. Expert consensus emphasizes the importance of training medical staff in the quality of care. Consultation on expert transport to the NICU for such cases is necessary.

Figure 3. Cotton Proposed Efficient Comprehensive Solution Based on Expert Consensus and Feasibility Recommendations

Cancer Technologies to Tackle Other Clinical Challenges

Cancer care is a multidisciplinary endeavor in the challenges faced by patients and cancer clinics (MPCs). In this article, we're covering the first 3 MPCs that we have chosen to engage in other technologies to address other significant clinical challenges. In addition to focusing on the unique characteristics of patients in MPCs, cancer clinics have the dual objectives of improving patient outcomes as well as methods for supporting the major developments in healthcare and administrative efficiency.

Technologies Enhancing Patient Management

- Cancer clinics are increasingly adopting patient portals to enhance patient engagement and streamline communication. These portals facilitate secure messaging, appointment scheduling, access to medical records, and educational resources, empowering patients to manage their care more effectively. Research indicates that patient portals can improve adherence to treatment plans and overall satisfaction with healthcare services.
- Telemedicine platforms offer a powerful tool for cancer clinics to conduct consultations remotely, reduce patient travel burdens, and maintain continuity of care during treatment. These platforms have gained significant traction during the COVID-19 pandemic, demonstrating their potential to enhance access to specialized care while minimizing exposure risks.
- Artificial intelligence (AI) and machine learning (ML) are being integrated into various aspects of cancer care, including diagnostic imaging, treatment planning, and predictive analytics. These technologies can assist clinicians in interpreting complex data, identifying patterns, and making more informed decisions regarding patient care.

Figure 1. Telemedicine platforms offer a powerful tool for cancer clinics to conduct consultations remotely, reduce patient travel burdens, and maintain continuity of care during treatment.

Support Program for Focus on Future Development

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Conclusion

The national focus area in the challenge of the transition towards the sustainable production of food in Malaysia, China and Malaysia, China's food supply chain is based on the sustainable supply of food and agri products and the use of modern technology to increase the sustainable production of food in Malaysia. To overcome the challenge of the transition towards the sustainable production of food in MSC, it is important for implementation of smart farming in Malaysia, which requires a wide range of complementary solutions for MSC to overcome quality management, supply chain management, and transportation. Digital solutions, particularly with the use of IoT and blockchain technology, are important for establishing a reliable and high quality service in MSC.

COMEN

About Comen Neo

Revolutionary Cannabinoid Care Technologies

Comen Neo is pioneering the longevity of life with advanced biotechnological care to our precious patients. Our focus is on bringing forth the cannabis experience to which is current day has led to a lack of knowledge of the cannabinoid or non-psychoactive cannabinoid care in the USA to survive the globe.

The CBD cannabinoid is the cornerstone of our journey, a commitment to deliver unique formulations to revolutionize the health of patients in a manner unprecedented in our dedication to the well-being of our patients and their unique needs.

As a portfolio company and founder of the NC series, offering patient-centered biotechnology rooted in the scientific and holistic approach. The foundation of our patient-focused consulting services is rooted in a deep understanding of the unique challenges and needs of our patients. Comen Neo's NC series of our company specifically caters to the distinctive requirements of cannabinoid consumers, ensuring that our services are tailored to address their specific health and wellness goals.

Our product range spans a diverse array of cannabinoid-infused products, including tinctures, topicals, and edibles, each meticulously crafted to cater to the diverse preferences and needs of our clientele. The NC series is committed to pushing the boundaries of cannabinoid technology, leveraging our commitment to addressing the complexities of cannabinoid health challenges.

As we continue to innovate, Comen Neo remains dedicated to expanding our NC offering, ensuring that our patients have access to the most advanced and effective cannabinoid-infused products. We are confident that our commitment to excellence and our dedication to patient-centric care will solidify our position as a leading force in the cannabinoid industry.

Comen Neo's mission is to ensure that the vast potential of the cannabinoid compound is fully realized in the pursuit of holistic health and well-being. We aspire to offer comprehensive solutions that address various ailments, including but not limited to pain management, anxiety, and sleep disorders, while prioritizing the safety and efficacy of our products. The NC series is at the forefront of this mission, with the goal of providing patients with the most advanced and effective cannabinoid-infused products available.

Comen Neo's commitment to innovation and excellence in the field of cannabinoid-infused products is evident in our dedication to staying abreast of the latest scientific research and developments in the cannabinoid industry. The NC series is at the forefront of this commitment, as we continue to explore new formulations and delivery methods that maximize the therapeutic benefits of cannabinoids while minimizing any potential adverse effects. The goal of our company is to provide our patients with the most advanced and effective cannabinoid-infused products available, with the ultimate aim of improving their overall well-being.

COMEN All for the End Users

Shenzhen Comen Medical Instruments Co., Ltd.
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