




diamedica
Celebrating 20 Years

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Image: Mbesa Hospital, South Tanzania

Letter from the Founder



For over two decades, Diamedica (UK) Ltd has been at the forefront of developing, manufacturing, supplying, and maintaining medical equipment specifically designed for underserved areas of global health.

These regions often face unique and complex challenges - ranging from limited infrastructure and unreliable electricity supplies to restricted oxygen availability, logistical hurdles, environmental extremes, and minimal technical support. In such settings, conventional medical equipment is often impractical. That's why Diamedica Ltd designs and delivers context specific solutions that meet the real-world needs of healthcare professionals working in these demanding environments.

Over the past **20** years, our journey has been both challenging and deeply rewarding. While obstacles have been many, the opportunity to collaborate with remarkable organisations and dedicated individuals across the globe has been a true privilege.

Diamedica Ltd remains committed to providing the best solutions in the form of high quality, durable, and cost-effective medical equipment that continues to serve users throughout its lifetime. Just as importantly, we are dedicated to supporting those users every step of the way.

Looking ahead to the coming decades, we look forward to continuing our partnerships with both long standing collaborators and new contacts - wherever there is a need for robust, reliable, and context appropriate medical solutions that offer value for money over its lifetime.

To all our colleagues, customers, users, and partners around the world, we *thank you*. Your unwavering support and shared commitment to improving global health inspires everything we do.

Robert Neighbour

Robert Neighbour CEng MSc FIET FRSM
Founder and Director
Diamedica (UK) Ltd



Reflections from Jon Meek, Managing Director



Having worked as Technical Manager for Diamedica (UK) Ltd for more than a decade, it is an honour to have stepped into the role of Managing Director and to lead a company with such a clear and meaningful mission. For more than 20 years, Diamedica has designed, built and supported medical equipment tailored specifically for use in low-resource settings, an area often overlooked by conventional medical manufacturers.

Throughout this journey, we have remained committed to addressing the challenges faced by healthcare providers working in under-resourced environments. The road hasn't always been easy, at times it's been complex, but more than anything, it is rewarding. Working with dedicated clinicians, NGOs, Ministries of Health, and global health organisations across so many countries is something that continues to inspire our work every day.

Looking forward, our commitment to innovation, reliability and long-term support remains unchanged. We are also evolving, responding not only to the needs of our users but also to broader regulatory requirements. As part of this, we are currently progressing selected products through the EU Medical Device Regulation (MDR) pathway. This is an important step in ensuring that our products continue to meet the highest standards of quality and safety, whilst reinforcing our dedication to supplying safe anaesthesia and respiratory solutions for limited resource settings.

Diamedica's story has always been one of practical innovation and unwavering support for those providing health care in some of the most challenging environments around the world. As we enter this next chapter, we are excited to strengthen our existing relationships and build new ones, wherever there is a need for robust, location appropriate medical equipment.

We hope that this booklet of our two-decade journey, provides useful insight into our work and the values that drive us. If you would like to learn more, collaborate, or simply connect, we invite you to reach out at any time.

Jon Meek

Managing Director
Diamedica (UK) Ltd

Celebrating Two Decades of Innovation and Impact

Since 2005, Diamedica has been at the forefront of designing and manufacturing medical equipment specifically for challenging and low-resource environments. Two decades later, the company stands as a globally recognised leader in providing life-saving anaesthesia and respiratory solutions to some of the most underserved regions in the world.

Diamedica's journey has been marked by innovation, compassion, and a comprehensive understanding of the practical needs of healthcare providers in remote and resource-limited areas. Our flagship product, the Glostavent® Helix, revolutionised access to safe surgery in areas without reliable electricity or oxygen supplies. This award-winning anaesthesia machine has been used in more than **80** countries and supported countless surgeries and humanitarian efforts.

Over the years, Diamedica has expanded its product portfolio, deepened partnerships and grown a skilled team committed to making a difference. The company's impact has extended beyond products, playing a vital role in global health development, emergency response efforts, and training healthcare workers on the frontlines.

As Diamedica celebrates 20 years of growth and innovation, our focus remains clear, to empower healthcare systems with safe, reliable, and accessible medical equipment.



Technology Then and Now:

Bridging the Gap in Global Healthcare

For decades, medical technology was created with advanced hospitals in mind. This included facilities with stable electricity, abundant oxygen supplies, and highly specialised infrastructure. These machines performed brilliantly in major urban centres, but when placed in rural clinics or low-resource hospitals, they too often became unusable. The very features that made them advanced also made them inaccessible.

Then

In many parts of the world, healthcare providers have faced the daily challenge of treating patients with equipment that was never designed for their reality. Anaesthesia machines that shut down the moment the power failed, ventilators that required constant oxygen supplies commonly unavailable in remote settings and complex devices that could not be repaired locally if they broke down. This resulted in patients going without lifesaving interventions, not because the expertise wasn't there, but because the tools were out of reach.

Now

Diamedica took a different path. Instead of redesigning "first-world" machines for resource-poor settings, we started by asking: *what do clinicians working in these environments truly need?*

The answers shaped our technology. Anaesthesia machines that function safely without continuous electricity. Integral oxygen supply, avoiding costly cylinders. Robust, portable designs that travel to where patients are, not the other way around. Equipment that is intuitive to use, straightforward to maintain, and resilient in the toughest conditions.

Our focus is on building fit-for-purpose equipment that empowers healthcare workers in the most challenging environments. Every innovation is driven by one goal: to make safe anaesthesia and respiratory care available to all, not just those within reach of advanced hospital systems.

Looking Forward

Technology has changed but so has the way we think about it. At Diamedica, we believe the true measure of innovation is not how advanced a machine is in theory, but how effectively it serves the people who need it most.

By designing for real-world conditions we are helping bridge the gap in global healthcare, ensuring that no patient is denied care simply because of where they live.





Testimonial: University Of Nairobi/Kenyatta National Hospital

“ We are an organization that conducts clinical trials, and one of the notable studies we implemented, THE ACTION III, introduced the use of Diamedica CPAP machines for all neonates born to trial participants who required respiratory support. At the onset of the trial, there was some initial resistance to the adoption of the Diamedica CPAP machines, as they were perceived to be bulky and difficult to operate. However, through regular training sessions and consistent advocacy with hospital management and clinical staff, the machines were gradually accepted. Over time, they came to be recognised as some of the easiest and most reliable machines to use. Their effectiveness was further validated by the positive outcomes observed among neonates who received respiratory support, which increased staff confidence and reinforced their adoption.

Routine training sessions not only enhanced staff proficiency but also enabled trained staff to retrain new colleagues, particularly within the maternity and newborn units. A significant milestone during this period was the successful introduction of CPAP use directly in the delivery room, an achievement that greatly strengthened neonatal care. As the trial progressed, the need to procure more machines and supplies in order to extend the benefits beyond study participants but other babies born or referred to the hospital. This showed a notable reduction in neonatal morbidity and mortality, as reflected in the hospital statistics.

One of the most remarkable features of the Diamedica CPAP machines is their inbuilt oxygen concentrator, which ensured uninterrupted oxygen delivery even during hospital oxygen cylinder stockouts. This reliability made the machines indispensable to neonatal units. Even after the conclusion of our trial, many of the participating sites continued to request support in obtaining spare parts to keep the machines operational. In light of this, we strongly encourage Diamedica to consider expanding its outlets within our countries to improve access to supplies. This would not only reduce procurement turnaround times but also enhance the sustainability and long-term impact of the machines.”

Above image: Image used for illustration purposes of CPAP in use at Mbalei Hospital

Testimonial: John Gould, Gould Family Foundation

“ We and our partners have used your anaesthesia machines and CPAP with great success in low resource (and dusty / dirty / poor power) environments. One great example is the use of your anaesthesia machines at the Van Norman Clinic in Bujumbura. They were performing over 240 C-sections per month with your machines.

Congratulations on your 20 anniversary and many thanks for your great work in this critical area.”



Testimonial: Dr Roger Eltringham, Founder and President of Safe Anaesthesia Worldwide

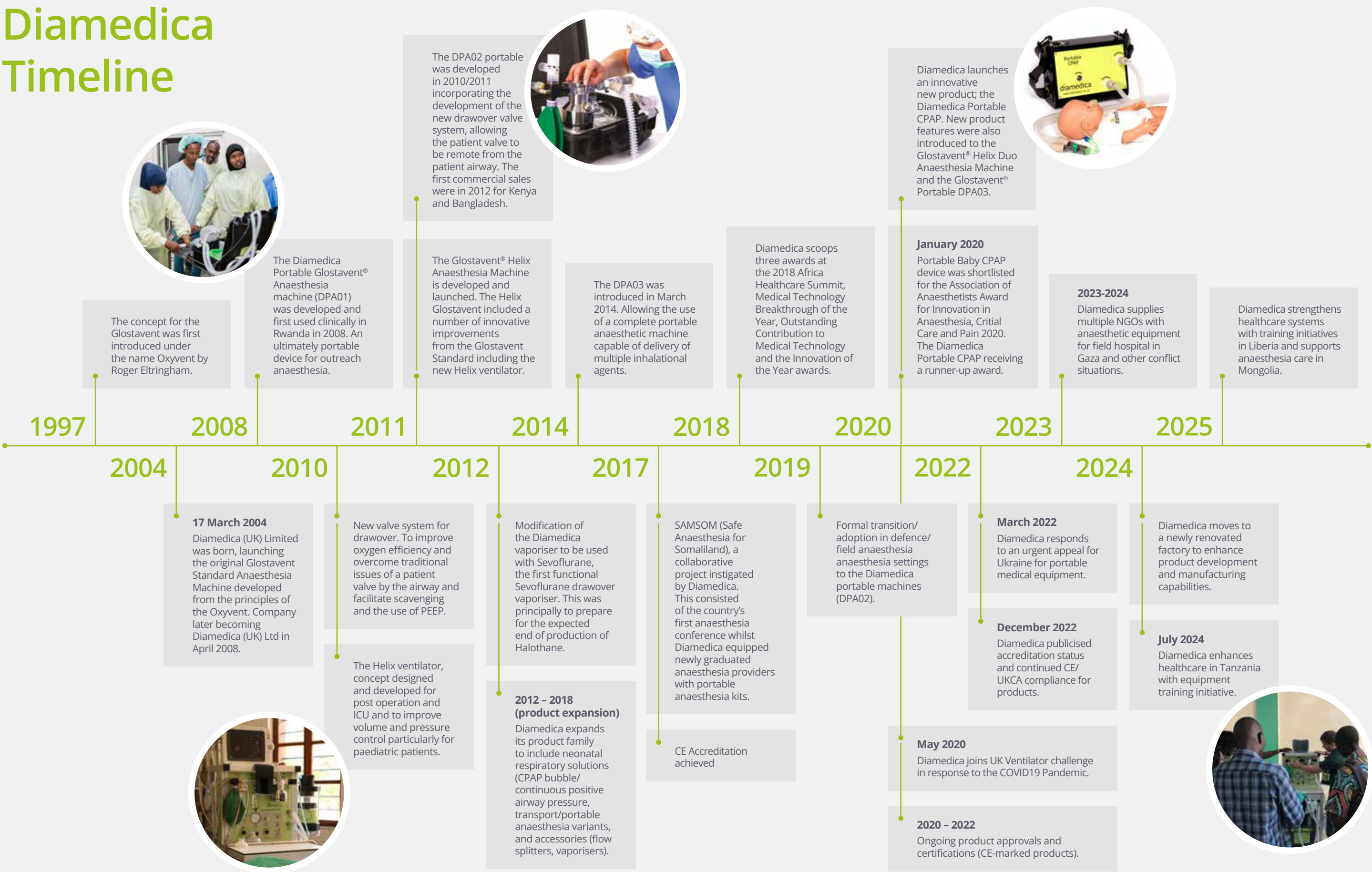
“ It was a most fortuitous day when I met a representative of Diamedica, who expressed interest in the Glostavent anaesthesia machine that I had invented to function in poorly resourced hospitals in developing countries. I could find no one interested in manufacturing the machine, until Diamedica saw its potential.

Since that day, I have enjoyed a long and productive relationship with the company, who have improved and refined the Glostavent, turning it into the incredible machine it is today. I cannot begin to imagine how many patients have been treated and lives saved, thanks to Diamedica's development, production and distribution of the Glostavent and other related equipment. In my opinion, Diamedica is without question the world's leading authority on anaesthesia equipment suitable for low-resource settings.

On retirement from my position as Consultant Anaesthetist at the Gloucestershire Royal Hospital, I founded the charity Safe Anaesthesia Worldwide (SAWW) in 2011, with the aim of improving anaesthesia services in developing countries by providing suitable equipment, training and research. Once again, Diamedica was instrumental in helping to establish the charity, by providing technical advice, administrative support and subsequently carrying out numerous visits to install or service the donated equipment and train recipients. I can safely say that the charity SAWW would not have grown to its current state or been able to help many thousands of people in numerous countries without the support of the Diamedica team.”



Diamedica Timeline





Testimonial: DAK International Network

“ DAK International Network has been collaborating with Diamedica since 2012, when we made our first purchase and donation for a paediatric project in Papua New Guinea. What started as a supplier relationship, soon turned into a program partnership, and has now evolved into a deep and enduring friendship. We discovered the joy of working with an ethical for-profit whose values align so closely with our own, and whose commercial lens provides efficiency and logistical pragmatism, which can be a weak spot in the not-for-profit world.

Robert - and now Jon - have always been quick to give us technical advice and program guidance. Where possible they have delivered user and maintenance training in person (such as Burundi and Liberia) and where needed have conducted this via video call. The Diamedica after sales service is second to none; their mission is to see equipment benefitting patients, not just to sell devices. They are willing to organise whatever the needs are, whether it is just some valves to Somaliland or filters to Madagascar.

DAK began supporting various biomedical initiatives soon after connecting with Diamedica. Development funders too often overlook what is needed to sustain a device for its intended lifetime which makes manufacturers like Diamedica so precious, as they always go the extra mile to support the end users. During COVID Robert became a trusted sounding board for emergency response proposals – and again more recently when halothane production was discontinued.

The Diamedica team has changed over the years. We fondly remember Rachel and Carol, and we are always grateful for the excellent support from Jon and Kerrie. And we especially enjoy our annual pint of beer at the Wig & Pen with Robert, listening to his unique insights and hearing about the impactful work being down around the globe.

Congratulations on your 20th anniversary – and looking forward to partnering for the next 20 years!



Testimonial: Leah Seaman, Kapiri District Hospital, Zambia

“ We have been using Diamedica baby CPAP machines since 2019 to care for our small and sick newborns, whilst developing our neonatal service. We don't have piped oxygen so the Diamedica Baby CPAP has been excellent because it can generate its own oxygen. It also allows for blended oxygen and air (which previous homemade versions do not), therefore providing robust respiratory support for our neonates but reducing the side effects of hyperoxia. We also have babies who have survived due to the portable (battery powered) CPAP during prolonged power cuts who would have likely not had such a good outcome otherwise. The machines have proven easy to set up and use for nursing staff, especially since the availability of the RAM cannula patient interface and the availability of good CPAP almost certainly contributed to falling mortality rates in the ward.

More recently (2023) we began using the oxygen compressor and refillable oxygen cylinders which again is a life source especially during power cuts when concentrators can no longer be relied on, and also during transfer within the hospital and outside. As a partner, Diamedica have remained extremely responsive and helpful whenever we have technical challenges or equipment requiring servicing.”

Testimonial: Toby Johnson, NHS for Masanga, Sierra Leone

“ Introducing Diamedica's portable anaesthesia machines to a rural hospital in Sierra Leone has made a real difference in how safely the local team can care for patients. Before the machines arrived, emergency surgeries were carried out using only ketamine. While this approach is common in low-resource settings, it comes with a high risk of complications—especially during emergency abdominal surgeries or when patients haven't been able to fast beforehand.

Now, thanks to these machines, the team can provide much safer general anaesthesia using gas, and we've seen a dramatic drop in patient deaths. The equipment is simple, affordable, and easy to maintain, making it a practical and sustainable solution in a low resource setting.

Just as important as the machines has been the support from the Diamedica team. They've been incredibly generous with their time, teaching us how to use the equipment properly. That hands-on training has made it possible to share the knowledge with local staff, who now use the machines confidently every day.”





Photo credit: Tim Bekir ©

Testimonial: Carol Newman, Secretary

Safe Anaesthesia Worldwide (SAWW) works to ensure safe anaesthesia is available in poor countries so that patients can receive the treatment they need. We act by donating appropriate anaesthesia equipment and supporting training. Diamedica UK has been an important supporter of SAWW since its inception and continues to provide a key element of our work.

SAWW regularly sources equipment from Diamedica, as in our experience their equipment is second to none for low-resource settings. Many of the hospitals we assist have regular power cuts and shortages of oxygen, so an anaesthesia machine such as the Glostavent is crucial to providing a reliable service for patients in urgent need of treatment.

The focus at Diamedica is very much on helping the end user to get the kit they needed and as many of their customers are humanitarian organisations, we speak a common language. Diamedica helps SAWW with technical advice, training, logistics and long-term support. Diamedica is a vital link in a chain that brings lifesaving healthcare to people in poor countries.

The team at Diamedica are consistently helpful and efficient. Some of them have even gone the extra mile to raise funds for SAWW by running the Edinburgh Marathon (Jon Meek), completing a Tough Mudder Challenge (Shane Martin) and climbing Mt Kilimanjaro (Matthew Neighbour).

SAWW sometimes donates equipment to anaesthetists working in remote and difficult to reach locations. We rely almost entirely on the vast experience of the Diamedica team to oversee the delivery of our donations and to ensure recipients safely receive the equipment. We know Diamedica will provide an equally important follow-up service to ensure recipients are familiar with the new kit and confident to use it.

This is why we greatly value Diamedica's service that goes far beyond that offered by other equipment suppliers.

On a number of occasions, Diamedica engineers have generously travelled to install or service equipment for us and to train hospital staff, at no cost to the charity. For example, Glostavent anaesthesia machines at the Al-Hyatt Hospital in Somaliland and Jinka Hospital in Ethiopia; CPAP and oxygen supply equipment at the Neonatal Intensive Care Unit (NICU) at Mbale Hospital, Uganda; and an Oxygen Reservoir Storage System at Bansang Hospital, The Gambia, to name just a few. This contribution from Diamedica is enormously helpful and makes our projects more cost-effective. It also provides use useful first-hand feedback on the conditions at the recipient hospital and any outstanding needs.

Diamedica's portable equipment has been especially valuable to SAWW's work, which has included supporting surgical outreach missions to treat patients in poor communities in Mongolia, Nepal, Cameroon and Somalia. For example, a portable Glostavent sent to Somalia is in use by Dr Mwase in treating cleft lip and palate in children as young as 6 months old. These children live in poor rural

communities and they would not otherwise receive treatment.

Thanks to Diamedica's portable equipment and logistic support, SAWW has regularly responded to pleas for help in emergencies caused by natural disasters or war. Portable anaesthesia machines donated by SAWW have helped to treat injured patients in Ukraine and Syria. A portable Glostavent rushed to a doctor in Western Cameroon when Kumba Hospital was burnt down by local rebels, enabled surgery to continue in a makeshift field hospital. Another portable machine sent to Cameroon was hand carried by the anaesthetist to a neighbouring hospital when internal conflict closed the original hospital. He was able to continue to treat patients; many of them displaced people due to the local conflict. This included an 8 year old child who sustained a serious elbow fracture complicated by delayed treatment following consultation with a traditional healer.



Main image: SANSOM trainers and nurse anaesthetists are delighted with the delivery of Diamedica's DPA02 anaesthesia machine.

First image: Early Oxygen Reservoir System installed at Bansang Hospital

Second image: Mwase Richard using portable anesthetic machine on a 6 months old somali baby with a cleft palate in Mogadishu, Somalia.

Left image: Clinique Chirurgical Bamboutos, Cameroon, 8 year old girl with left humeral supracondylar fracture.

Right image: Training at Jinka Hospital, Ethiopia on GV in 2018.



Testimonial: Dr Edna Adan Ismail, Founder & President, Edna Adan University Hospital, Hargeisa, Republic of Somaliland

“Diamedica has played a huge role in development of the surgical anaesthesia program in Somaliland and has allowed the capacity and capability to grow tremendously over the past 15 years. Prior to the partnership between Edna Adan University Hospital and Diamedica, there were less than 15 anaesthesia providers countrywide, many not well trained, now there are over 72 providers.

Diamedica was the leader of the first Continuing Medical Education trainer for the anaesthesia providers in Somaliland. The partnership with Safe Anaesthesia for Somaliland and Diamedica has changed the landscape of anaesthesia countrywide. Additionally, Diamedica's partnership with Edna Adan University Hospital has given patients who wouldn't normally be able to receive needed surgeries the ability to have this in their own country, thus safely increasing surgical capacity in the medical institutions of Somaliland.

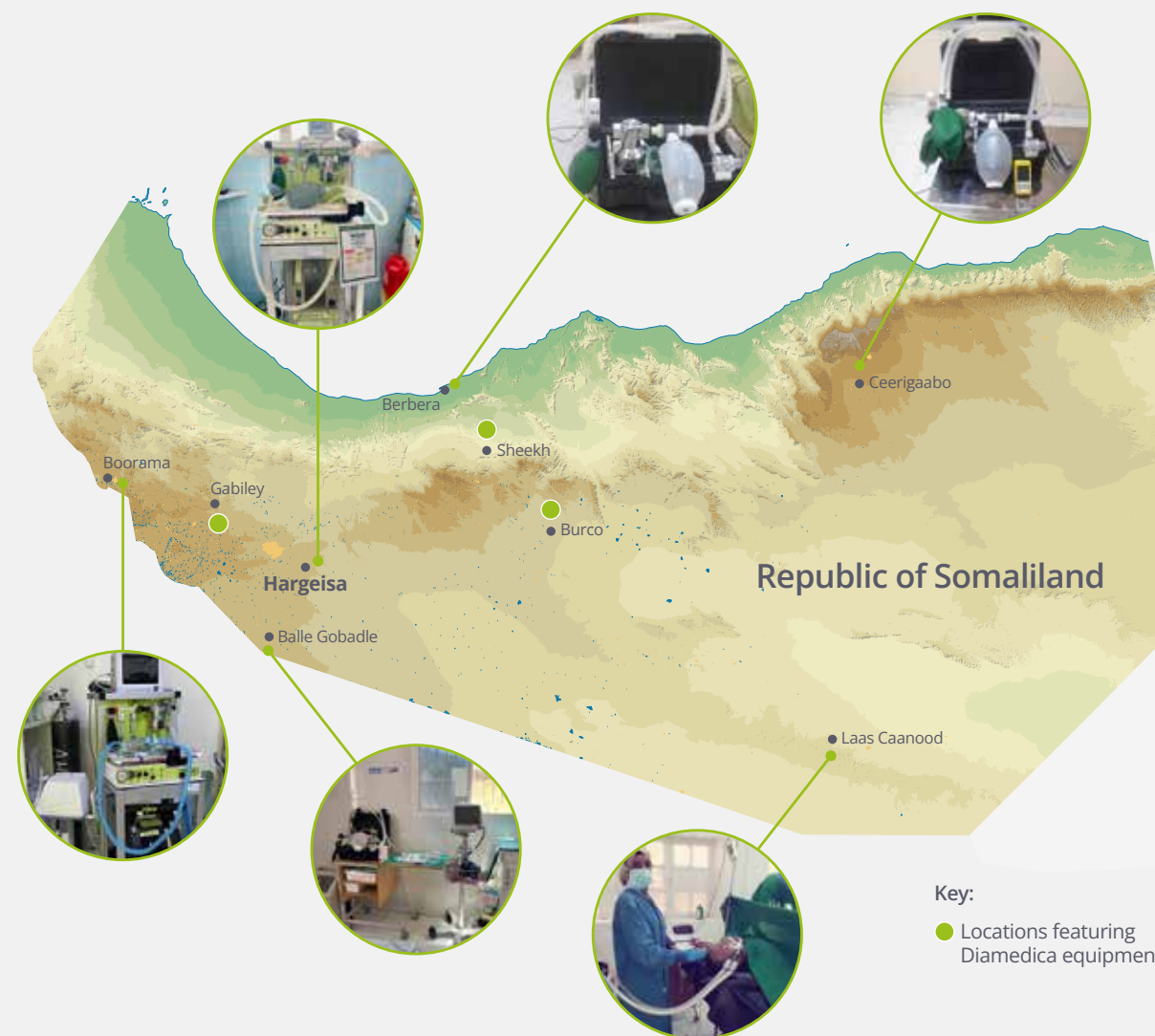
The number of patients who have benefited from Diamedica's commitment to serving the underserved, is too numerous to count as Diamedica's machines are seen throughout the country. Diamedica's partnership with Edna Adan University Hospital has allowed the distribution of **13** machines throughout the country. Many of these machines are over 10 years old and working the same as day one. The quality of Diamedica's equipment is well above that of many competitors. In addition to the equipment, the support from Diamedica allows the providers to reach back to the company for support and advice. This support allows providers to use the equipment with confidence and ease. The equipment is easy to learn and operate as well as durable and well made.

Aside from anaesthesia machines, Diamedica's CPAP machines for neonatal use have changed the outcome for the tiniest of Somaliland. The neonatal unit's successful outcome grew from this partnership.

Thank you Diamedica for everything.



Congratulations Diamedica on 20 amazing years! We're proud to be partners with such an amazing organization! You've changed the world for those overlooked and underserved in many nations!



SANSOM Project 2017

SANSOM was a three-day conference – the culmination of two years of training nurse anaesthetists by Dr Newton and his team. This was followed by a road trip to eight different hospitals across the country delivering medical kits, which included Diamedica's DPA02 portable anaesthesia machine and oxygen concentrators.



Photos credit: Tim Bekir ©



Awards & Accreditation

Recognised for Innovation, Trusted Worldwide

We pride ourselves on designing life-saving innovation that makes healthcare possible in the world's most challenging environments. Our pioneering devices have won multiple international awards. Backed by global accreditations such as ISO 13485, CE, UKCA, and now progressing through the EU MDR pathway, our work is trusted by healthcare professionals around the world.

Every award and accreditation received reflects our mission of creating safe, reliable, and affordable lifesaving medical technology.

-  Accreditation
-  Award
-  Recognition

-  **2023** – EU MDR Pathway (in progress)
-  **2022** – North Devon Business of the year award - Business Action
-  **2022** – North Devon International Trade award - Business Action
-  **2022** – UKCA & CE Marking (Medical Device Conformity)
-  **2019** – AAGBI Innovation Award (finalist). Portable CPAP Device
-  **2019** – Medical Technology Breakthrough of the Year, The Africa Healthcare Summit
-  **2019** – Outstanding Contribution to Medical Technology, The Africa Healthcare Summit
-  **2018** – Innovation of the Year at the Africa Healthcare Summit. Oxygen Reservoir System

-  **2017** – Manufacturing Excellence – NDMA
-  **2017** – International Innovation of the Year, Africa Healthcare Summit. *Helix Portable Ventilators*
-  **2017** – The Solution of the Year, Africa Healthcare Summit. *Helix Portable Ventilators*
-  **2017** – AAGBI Innovation in Anaesthesia, Critical Care and Pain. *Oxygen Reservoir System*
-  **2017** – CE Marking (Medical Devices Directive 93/42/EEC)
-  **2016** – Showcased at The Wood Library Museum. *Glostavent® Helix*
-  **2016** – Innovation of the Year at the Africa Healthcare Summit. *Glostavent® Helix*

-  **2016** – AAGBI Innovation Award (finalist). Diamedica's Sevoflurane analgesia Inhaler
-  **2016** – ISO 9001, Quality Management
-  **2016** – ISO 13485 Medical Devices QMS
-  **2015** – AAGBI Innovation Prize for Anaesthesia, Critical Care and Pain. *Helix ventilator*
-  **2014** – AAGBI Innovation Award (finalist). *Baby CPAP machine*
-  **2014** – Diamedica's director, Robert Neighbour, (finalist) for AidEx's Humanitarian Hero of the Year Award
-  **2013** – AAGBI Honours & Awards Committee recognition



Reliable & Economical Medical Equipment

Empowering Healthcare in Low-Resource Settings

In low-resource settings, reliable and economical medical equipment is not just beneficial, it's essential. It enables diagnostics and treatment, improves health outcomes, and significantly reduces mortality rates. Diamedica are committed to designing and delivering solutions that meet challenges faced in resource limited areas.

**EQUIPMENT IS
OPERATING IN OVER
80 COUNTRIES,
ACROSS
6 CONTINENTS**

At Diamedica, we don't just build medical devices, we build solutions that work where they're needed most.

Surgery:

Safe Solutions Where They Are Needed Most

Surgical care in resource-limited settings faces immense barriers; a shortage of trained personnel, unreliable electricity, limited oxygen supplies, and lack of essential equipment.

Diamedica is addressing this challenge by manufacturing innovative devices that are safe, effective, and specifically engineered for limited resource settings.

Diamedica's flagship product, the Glostavent® Helix anaesthesia machine, has been enabling safe surgery for more than two decades. Originally developed in the early 2000s, it was designed to overcome two of the biggest obstacles to safe surgery: unreliable electricity and limited oxygen availability.

Built to perform in some of the world's most challenging environments, the Glostavent® Helix continues to support surgical teams across low- and middle-income countries, helping to deliver safe anaesthesia where it's needed most.

Neonatal Care:

Saving the Smallest Lives

Access to appropriate neonatal equipment is crucial for maternal and child health, however, in many low-resource areas, safe and effective oxygen delivery for infants is simply not available.

Too often, unreliable or unsuitable equipment leads to compromised care. For this reason, Diamedica focuses on robust, affordable, and sustainable technologies that are location appropriate.

The Diamedica Baby CPAP range offers simple, low-cost and life-saving respiratory devices for preterm babies, neonates, and children. Delivering a controlled flow of warm, humidified and pressurised air/oxygen mix through a nasal cannula, helping vulnerable infants breathe, even in facilities without reliable oxygen supplies.

Designed specifically for resource-limited settings, the Diamedica Baby CPAP provides a safe alternative to conventional CPAP systems, which are often cost-prohibitive and overly complex for many healthcare environments.

Why Reliable & Economical Equipment Matters

- **Enhances Patient Care:**
Quality equipment ensures effective medical intervention, raising the standards of care and positively contributing to Universal Health Coverage
- **Improves Health Outcomes:**
Location-appropriate devices contribute to safer surgeries and better maternal and child health outcomes.
- **Prevents Wasted Resources:**
Durable and maintainable equipment avoids costly downtime and underutilisation.
- **Ensures Continued Functionality:**
Our solutions are designed to perform even during power outages or when oxygen is scarce, ensuring uninterrupted healthcare delivery.

The availability of Diamedica Baby CPAP almost certainly contributed to falling mortality rates in the ward.
Kapiri Hospital, Zambia.



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