

A place to thrive.

NEONATAL
COMPETENCE



There is a perfect place in the world of perinatal care where everyone thrives.

Where the vulnerable neonate, safe in a Zero Stress Environment, can devote all its precious energy to growth.

Where caregivers can anticipate and stay ahead of the changing, critical needs of their delicate patients – providing more comfort than ever before.

Where the entire NICU works as one, for a new level of simplicity, connectivity, efficiency, and synergy.

We call this place the Zone of Care.

It is redefining the notion of optimal neonatal care.

THE BABY

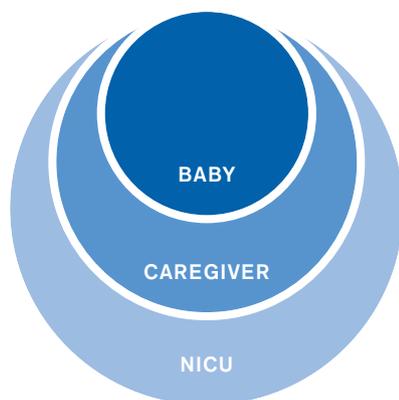
The baby in the Zone of Care is cocooned in the optimal microclimate. Where we strive to ensure Zero Stress through advanced thermoregulation, ventilation, and jaundice management.

THE CAREGIVERS

The caregivers in the Zone of Care deliver Total Comfort Care with an intuitively simple, ergonomic and developmental-focused workplace. The family is welcomed as part of the team and is critically essential to a healthy outcome.

THE NICU

The NICU in the Zone of Care becomes a completely integrated workplace through System Synergy. One-view monitoring, architectural systems and seamless transport enable a comprehensive, connected approach from delivery to discharge.



Zone of Care



MT-0575-2008

Zero Stress



MT-0576-2008

The science of thermoregulation.

THE IDEAL ENVIRONMENT WHERE NEONATES THRIVE

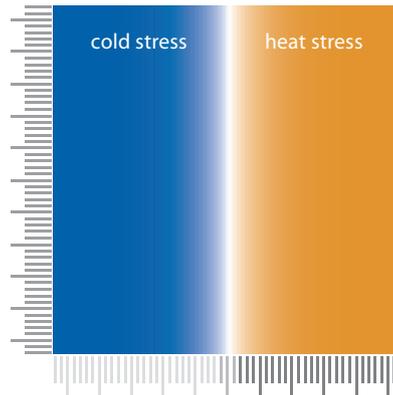
This is where it begins. The path home for a fragile newborn starts in the perfectly balanced, stable microclimate of our incubator. Where the appropriate temperature, humidity, oxygen, sound, and light-level work together to wrap the baby in a safe zone of minimal stress. At Dräger, our focus – indeed our passion – is to advance the science of thermoregulation, because we understand the critical role it plays as an early warning signal of

stress and potentially serious complications for the baby. Our incubators utilize convective heat with low air velocity, humidification, and a soft insulating mattress to regulate body temperature. All contribute to the stable, cocoon-like effect of the space. Our open warmers utilize radiant heat and optional conductive heat to help stabilize the baby after delivery as quickly as possible.

Through Dräger's unique and innovative ThermoMonitoring®, you have the ability to go even

In the Labor & Delivery and the NICU, our thermoregulation devices – both closed and open care – create a microclimate that minimizes the effect of disturbances and time out of the Thermo-Neutral Zone. Our double air curtain on the Caleo, for example, acts as a “security blanket” for the neonate, providing a balanced climate even when access points are open.

The Thermo-Neutral Zone is sliverthin. The margin for error is very slight. Only less than 1 °C separates the baby from stress. Stress that diverts energy from growth to the struggle of regulating body temperature.



further by continuously measuring both central and peripheral body temperature. Giving you the truest, most accurate early indicator of cold or heat stress, or temperature instability.*

Ultimately, we help you create a microclimate for each baby that is individualized, nurturing, and stable. It's what managing Zero Stress is all about.

Of course, being able to reach the baby while minimizing the effect of disturbances is also critically important. The ergonomic flexibility of all of our thermoregulation devices enables an unparalleled ease of use.

* Prof. Dr. Albert Okken and Dr. Jochim Koch: Thermoregulation of Sick and Low Birth Weight Neonates. Springer-Verlag New York, 1995, ISBN 0-387-60169-4



The Babylog minimizes the work of breathing and the need to manually adjust a trigger sensitivity. The critical need to wean the baby when appropriate is enhanced through sensitive synchronization with spontaneous breathing.



Gentle ventilation.

THE IMPERATIVE OF TENDERNESS

For each baby there is an individual zone of ideal ventilation. And it must be measured breath by breath, change by change. Which is why, at Dräger, our focus has always been on providing highly sensitive ventilation that keeps pace with a baby's changing needs, from the very first breath onwards.

The fact is, a delicate newborn can damage its lungs in just three "wrong" breaths. To us, one is too many. Our Babylog has set the standard in neonatal ventilation. Babylog was the first ventilator to measure expiratory tidal volume, down to 2 ml, right at the Y-piece and the baby's mouth. We use this most precise data to automatically and

continuously control for leak compensation and volume guarantee. It's like having a respiratory therapist by the baby's bed 24/7.

In the Dräger Zone of Care, our goal is to help you stay on top of the baby's constant compliance changes to avoid under or over inflation of the baby's developing lungs, and to make sure the pressure is as low as possible to get volume into lungs. It's how we help everyone breathe a little easier.

Zero Stress



Jaundice management.

TO KNOW INSTANTLY AND TREAT EFFECTIVELY
About 60% of all newborns are born with jaundice. Some 20% will develop difficult jaundice. The ability to both easily screen and effectively treat is crucial to newborn health. Our focus on Zero-Stress Management has led to the development of jaundice screening and therapeutic solutions that are non-invasive, simple-to-use, and highly effective.

Our non-invasive jaundice meter gives you an instant way to screen for jaundice. All it takes is a gentle touch of the device on the infant's sternum or fore-head to know instantly whether jaundice is present. No unnecessary heel pricks. No exclusions.

It works on all skin types. The fact that it's the only device that requires no disposable parts makes it also highly cost effective.

In photo-therapy, our key word is "balance". It is about delivering the highest intensity, in just the right wavelength, with the lowest heat, in the most evenly distributed way. The Dräger photo-therapy solution brings it all together. With virtually no noise and the high intensity, we help reduce therapy time. By adding two white examination lights to our blue therapy light, we have made visual assessment both easier and more comfortable for your care team.

Staying a step ahead of the baby.

THE POWER TO ANTICIPATE

The Zone of Care radiates out from the baby to the caregiver and family – creating a way to work, to care, and to bond that is completely in tune with the baby's needs. We call it Total Comfort Care.

Total Comfort Care is about helping you recognize the smallest change in the baby's condition that could signal the beginning of stress. This can help you stay ahead of the baby's needs.

It's about a workplace that just makes sense. One that's ergonomically smart, intuitively simple and perfectly accessible. For example, with OneView Monitoring, all vital signs, lab results, and diagnostic images are displayed on the bedside monitoring solution, providing you with all the data you need for faster assessment, decision-making, and treatment.

It's about a belief in the profound nurturing power of developmental care. Through design, technology, accessories, and consumables, we help provide a developmentally supportive environment that recognizes the vital need for gentle touch and whisper-quiet. In fact, in a research study*, our Caleo incubator has proven to be the quietest incubator. We also focus on enabling easy and unintimidating Kangaroo Care for parents, as well as providing accessories that reduce light, encourage nesting, and make cluster care simpler for NICU nursing staff.

In the Zone of Care, the neonate, the caregivers, and the parents are encircled in a level of care that is second to none.

* Article: Recommended Permissible Noise Criteria for Occupied, Newly Constructed or Renovated Hospital Nurseries, M. Kathleen Philbin, RN, PhD Alex Robertson, MD James W. Hall III, PhD Journal of Perinatology (1999) 19(8) Part 1, 559–563. ©1999 Stockton Press. All rights reserved. 0743–8346/99



Thermomonitoring of both central and peripheral body temperature offers critical early information of the baby's stability. The ability to access comprehensive clinical data from one bedside monitor speeds up response time. The quiet mechanism of our jumbo ports, encourages an incubator environment of almost total quiet.

Total comfort care



System Synergy



MT-8508-2006

A new level of connectivity and efficiency.

WORKING AS ONE

Finally, in the Zone of Care everything comes together through System Synergy – the next level of integration. It starts with OneView Monitoring. Offering data connectivity between Dräger Ventilators, Incubators, and Infant Warmers to bedside Monitors to achieve a consolidated view of the baby's status, giving you access from the bedside Monitoring Solutions to data on the hospital network such as vital signs, trending data, lab results, and diagnostic images from a single screen. No more moving to a second computer to

see hospital labs or images. Finally, our Infinity Central Station gives you real-time monitoring of bedside data, clinical applications, full-disclosure storage, and remote access to all data via Intranet Browser. You'll see the same data on your Central Station monitor. This ubiquitous flow of information happens seamlessly through Dräger's One-Net. One-Net enables us to piggyback on your existing network without the need for a new, dedicated network, reducing costs for installation and management. In fact, if your hospital provides web-access, the information flow can continue to a



MT-1105-2007



Our state-of-the-art monitors are integrated with the Masimo SET. Giving you a comprehensive set of vital parameters. And through our unique Pick and Go® capability, our monitors can travel with the baby – with no interruption in monitoring, no disconnecting, no worries.

physician's home or PDA through Remote Web Access. Our goal is to provide the most relevant data, at hand, at the bedside and moment-to-moment. From Labor & Delivery, through Transport, to the NICU, our solutions support uncompromising care. Together, with the intelligent design of our architectural systems, you enjoy an integrated work environment that offers better accessibility, enhanced flexibility, and ergonomic workflow.

Seamless, synchronized, perfectly coordinated. In the Dräger Zone of Care, it's easier than ever to truly work as one.

To thrive means to grow, to prosper –
to flourish.

At Dräger, we have a deep commitment
to helping the complex newborn thrive.
So your team delivers exceptional care
that anticipates every clinical need. The
family participates in the most nurturing
way possible. And your entire NICU
functions more efficiently. It's what
the Zone of Care is all about.

Seamless. Connected. Smart. Gentle.
The baby is always at the very center.

Welcome to the world of optimal
neonatal care.



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