



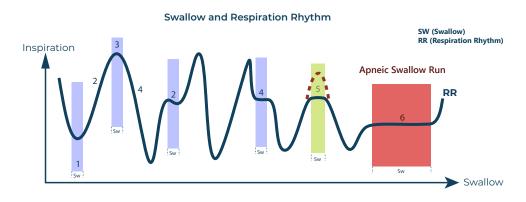
NeoS\(\Delta FE\)



Feeding Ability = Feeding Maturity

According to AAP (American Academy of Pediatrics), achievement of effective oral feeding after birth is important for ideal growth and for safe discharge from hospital. The exact time at which sucking and respiration become coordinated in preterm infants is still unknown; however, integrity of oropharyngeal anatomy and neurological function is essential to complete the maturation process.

Preterm infants need to be able to coordinate sucking, swallowing, and breathing, sustain alert awake behavior and preserve cardiorespiratory stability to achieve successful oral feeding.



Feeding Maturity Risks of Newborns

Preterm infants who are discharged before they have acquired **feeding skills** may be at risk for aspiration, breathing difficulties, or severe respiratory and neurological problems. Most of the term infants, which were born after the regular gestation period of 37 complete weeks, have **coordinated sucking-swallowing patterns**. However, these abilities are underdeveloped in preterm infants. The lack of development of **effective feeding** in premature infants can cause serious complications.

Health Problems

Accidentally aspirated food can brain hypoxia neurological deficits, infections.

Prolonged Hospitalization

Optimal 3 days of hospitalization duration in NICU could last 10-14 days and cost more than \$2 Billion just in the USA.

Re-Admissions

Due to feeding problems 41% of newborns are readmitted within 28 days of discharge.

NeoSAFE | Monitoring Feeding Ability of Newborns

NeoSAFE is an innovative, non-invasive point-of-care diagnostic medical device designed for the assessment of feeding maturity. It is designed and developed to be the standard diagnostic tool for the safe discharge of newborns from hospitals all over the world with the utilization of state-of-the-art machine learning algorithms.

With its painless procedure, NeoSAFE can be safely used at NICUs and clinics alongside the other medical devices that physicians depend on every day for safer diagnosis and treatment.

Place the sensors under the infant's chin and over the chest and start the session.



Check out the session results generate the Transfer it via USB or e-mail.



Start feeding the baby orally. Observe the data flow from the monitor.





Informed Clinical Decisions



Feeding Method & Treatment Schedule



Reduced **NICU Period**



Safe Discharge



Improved Growth

Testimonials

Prof. Dr. Özge Sürmeli, M.D.

Eskişehir Osmangazi University, Health, Application and Research Hospital Department Of Child Health And Diseases "The harmonious functioning of sucking and swallowing functions ensures that the baby feeds with pleasure and gets the nutrition it needs at the optimum time. Evaluation of these functions with NeoSAFE provides an objective assessment of babies at risk for aspiration. It sheds light on babies in need of physiotherapy.

Dr. Nazife Reyyan Buyurgan, M.D.

Marmara University, Pendik Research and Application Hospital Department Of Child Health And Diseases "NeoSAFE was a new experience for me in 2023 in determining the nutritional maturity of newborns and the discharge decision. I am sure it will be very useful especially in my patient group of late preterm babies. So far, we have used the device in the nutritional assessment of breastfed babies and we have been very successful. We will continue to use NeoSAFE."

Prof. Dr. Mustafa Ali AKIN, M.D.

Ondokuz Mayıs University, Faculty of Medicine Division of Neonatology

"NeoSAFE, which has proven itself in the assessment of premature infant nutrition, has been a very exciting experience for me. Especially in the HIE patients I care for (babies with brain damage caused by a decrease in blood and oxygen reaching the baby during, before, and after birth), feeding is very likely to be problematic. I am very excited about the possibility of assessment the feeding skills of these babies with NeoSAFE and intervening early when necessary to reduce the problems these babies will face in the future."



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