HUSH BABY

MEDICAL DIVISION

HUSH HAT™

WITH SOFTSOUND® TECHNOLOGY

INTRODUCING THE HUSH HAT™

Crafted with specialized sound-absorbing medical grade foam, ultra-soft materials, and tested by Owens Corning Labs, each NICU HUSH Hat™ not only reduces noise, but is incredibly comfortable.

NOISE IS DAMAGING

Studies show that babies that are born prematurely have a much higher sensitivity to sound than full term babies. Furthermore, the life sustaining equipment found in our nation's NICUs often exceeds safe levels for these tiny babies. There is a growing body of evidence that suggests this affects more than just loss of hearing. The impact of a few days or weeks in a hospital NICU may affect motor skills, speech, ability to learn, and much more. The NICU HUSH Hat™ by HUSH Baby LLC offers medical professionals a way to soften these startling and potentially harmful sounds.

The sound levels in NICUs range from 7 dB to 120 dB, often exceeding the maximum acceptable level of 45 dB that is recommended by the American Academy of Pediatrics. Hearing impairment is diagnosed in 2% to 10% of preterm infants versus 0.1% of the general pediatric population.

Source: Chochrane, 1/30/15

TABLE. Noise levels

Quality	Peak Intensity, dBA	Example[2]	Inside Incubator[41]	Effect
Just audible	10	Heartbeat		
Very quiet	20–30	Whisper		<35 dBA desired for sleep
Quiet	40	Average home		
	50	Light traffic	Background	<50 dBA desired for work
Moderately loud	60	Normal conversation	Motor on and off	
	70	Vacuum cleaner	Bubbling in ventilator tubing	Annoyance
Loud	80	Heavy traffic Telephone ringing	Tapping incubator with fingers	
	90	Pneumatic drill	Closing the metal cabinet doors under the incubator	Hearing loss with persistent exposure
Very loud	100	Power mower	Closing solid plastic porthole	
Uncomfortably loud	120	Boom box in car[44]	Dropping the head of the mattress	Pain and distress
	140	Jet plane 30 m overhead		

Premature infants in the NICU are often exposed to continuous loud noise despite research documenting the presence and damaging effects of noise on preterm infant's development. Excessive auditory stimulation creates negative physiologic responses such as apnea, fluctuations in heart rate, blood pressure, and oxygen saturation. Preterm infants exposed to prolonged excessive noise are also at increased risk for hearing loss, abnormal brain and sensory development, speech, and language problems. Reducing noise levels in the NICU can improve the physiologic stability of sick neonates and therefore enlarge the potential for infant brain development.

Source: US National Library of Medicine National Institute of Health https://www.nlm.nih.gov/

THE HUSH BAND

Inside the NICU there are different kinds of noises such as fans, incubators, monitors, alarms, secretion evacuators, oxygen and compressed air escapes, telephones, conversations between health workers and relatives, all of which can harm babies development.

The HUSH Band is another great option to protect babies hearing.

Source: SciElo, Brazil

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