



NASCOR PTY LTD

BILIBAND™

Product description

1. PRODUCT DESCRIPTION

Jaundice in the neonate is common in the first few days of post-natal life. Jaundice is caused by a bile pigment called bilirubin which is a breakdown product of haemoglobin from blood cells. During intra-uterine life the maternal liver conjugates the bilirubin molecule and it is excreted through the maternal bowel. Following birth the hepatic cells of the neonate need to induce the enzymes to perform this process and this normally takes a few days. During this delay, the bilirubin accumulates in the baby's circulation. In excess quantities this pigment can cause harm to the brain of the individual so, under the circumstances of rapid elevation of the blood level, therapy must be used to decrease the blood level.

This therapy (called phototherapy) uses the blue part of the light spectrum to break down and enhance excretion of the bilirubin. The baby is subjected to intense light in this waveband (425-475nm). Some experimental data showed that monkeys subjected to light therapy at many times the intensity of that used in phototherapy sustained retinal damage as a result.

Consequently babies under phototherapy are required to wear eye protection in the form of eye shields.

Unfortunately the present products, before the invention of the Biliband™ were easy for the baby to pull off and dislodge and a large amount of nursing time and parental anxiety ensued as a consequence.

The Nascor BILIBAND™ is a device to protect the eyes of the neonate during phototherapy from the effects of the bright light. Which has the characteristics of good light attenuation and a design that prevents inadvertent removal by the baby.

2. INTENDED USE OF THE PRODUCT

The Nascor Biliband™ is used by placing the eyepads over the eyes of the babies when under phototherapy. The pads provide enough attenuation of the light to prevent any theoretical damage to the eyes. The band prevents removal by the baby.

Neonates of all weights and sizes may use it.

Two sizes of device are supplied : REGULAR and PREMATURE

They are not sterile and are for single use and disposable.