

## PARENT QUESTIONS?

**A**

How long will my baby have to wear the N~i.C. BAND™?

The length of time the N~i.C. BAND™ is worn varies with age at initiation of treatment, degree of asymmetry in the skull and the baby's tolerance of the device. Typically, a N~i.C. BAND™ applied to a 5 month old who's sole diagnosis is deformational molding, may wear the device for 3 to 4 months. The maximum age to which a N~i.C. BAND™ can be worn is 18 months old.

**B**

Does it cause skin problems?

The N~i.C. BAND™ applies a gentle, guiding force to various areas on the skull and will cause some redness of the skin. This redness should fade within 1 hour of the Band's removal. If areas remain red or a parent is concerned, they are encouraged to contact the Orthotist promptly.

**C**

How many hours per day does it have to be worn?

The accepted standard is 22 hours per day. Your child is given a break from wearing the device for one hour in the morning and for one hour prior to wearing it to bed.

**D**

Do you scan or plaster cast my child?

Bay Orthopedic utilizes an FDA approved class II Laser Scanner to capture a 3-dimensional image of your child's head. This scanner emits a red light similar to a grocery store scanner. There is no radiation involved in this procedure.

**E**

Will my insurance cover it?

Today's health insurance company's are more restrictive than ever before. Each plan has many coverage options; strict HMO, PPO, POS, High Options, FSA plans etc. It is for these reasons, Bay Orthopedic routinely contacts each patient's insurance company to investigate the benefits available for this highly effective, non-invasive treatment. In association with the ordering physician, we supply the insurance company with a detailed prescription, letter of medical necessity, invoice, and supporting literature to assist you in securing the highest possible reimbursement allowed by your plan.

If you have other questions regarding this treatment or would like articles on this topic, please call (631) 271-0825 and ask for the N~i.C. BAND™ Insurance Packet.



## BEFORE & AFTER



## BAY ORTHOPEDIC and Rehabilitation Supply Co.

*Long Island and New York City's  
Premiere Cranial Remolding Center*

For Additional Information Regarding:

Insurance Coverage  
Plagiocephaly and its Treatment  
Office Directions  
Photo's  
and Downloadable PDF Files  
Log on to:

[www.bayorthopedic.com](http://www.bayorthopedic.com)

**Ni.C.BAND**  
PROGRAM

### Locations

#### SUFFOLK COUNTY

616 East Jericho Turnpike  
Huntington Station, NY 11746  
**(631) 271-0825**  
*(1.5 miles East of Route 110 on Jericho Tpke.)*

#### NASSAU COUNTY

813A Carman Avenue  
Westbury, NY 11590  
**(516) 333-7200**  
*(1 mi. North of Hemp. Tpke. on Carmen Ave.)*

#### QUEENS & NYC

218-05 Union Turnpike  
Hollis Hills, NY 11364  
**(718) 343-1000**  
*(1/3 mile North of Grand Central Parkway)*

**ALL HOURS BY APPOINTMENT ONLY**

## DIAGNOSIS:

DEFORMATIONAL PLAGIOCEPHALY



## PRESCRIPTION:

**Ni.C.BAND**  
PROGRAM



An FDA approved non-invasive treatment for Deformational Plagiocephaly is Bay Orthopedic's **N~i.C. BAND™** Program. This effective treatment modality for non-synostotic asymmetrical head deformity, gently guides the infant skull into a more normal shape. The **N~i.C. BAND™** is made from a 3-Dimensional Laser Scan of your child's head. This data is modified to create a symmetrical model which is then input to a computer aided carver. The CAD carver produces the mold from which the **N~i.C. BAND™** is fabricated. Consisting of two layers of soft foam and an outer shell of plastic, the FDA approved **N~i.C. BAND™** design gently guides new growth to remold the skull.

Bay Orthopedic's unique FDA approved design, guides new growth and skull remodeling in a uniform and symmetrical pattern. The symmetrical design of the **N~i.C. BAND™** prevents your child from settling on the flattened area of the skull. If your child tries to lie in this way their head becomes suspended within the BAND, thus eliminating the deforming forces of the mattress. The opening at the top of the **N~i.C. BAND™** is sized according to the condition present. If the skull is bulging upward (high vault) the opening will be small. If this is not the case it would be as pictured.



## PROGRAM STANDARDS

1. An appointment within 2 days of initial call.
2. Delivery of the **N~i.C. BAND™** within 10 days of scanning.
3. Bay Orthopedic will investigate insurance coverage, gather all medical documentation and assist in a patient's efforts to appeal a denial.
4. A foam model of the child's head will be provided at delivery of the **N~i.C. BAND™** orthosis.
5. An Exit Scan comparison of before and after treatment will be made at the end of treatment.
6. Measurements will be recorded at every follow-up visit.
7. A Laser Scan will be performed to capture a 3-dimensional image of the infant's head.
8. A comprehensive instruction booklet will be provided to the parents at delivery.
9. A practitioner will be available 24/7 for emergencies and questions.
10. Adjustments will be scheduled within 48 hours of a call to the office.
11. Follow-ups will be at 2 or 4 week intervals (depending on age)



## THINGS TO LOOK FOR

**Deformational Brachycephaly** (brak "e-sef" a-le) a head which tends to be short from front to back and wide from ear to ear. The "back to sleep" campaign instituted by the American Academy of Pediatrics gives rise to flattening of the occiput or back of the head. This flattening or Deformational Molding gives the appearance of a brachycephalic skull.



**Deformational Plagiocephaly** (pla-"je-o'-sef a-le) in this case of deformational molding the head flattens on the side the child tends to favor and the opposite side bulges in response to brain growth. The backside of the head that is flattened will have a corresponding bulge on the forehead. Additionally, the ear on the flattened side tends to be displaced forward as compared to the opposite side. It must be noted that neither Deformational Plagiocephaly nor Deformational Brachycephaly involve a synostosis or fused skull suture. They may however, result from a condition known as torticollis.



**Torticollis** is a condition found in one of every 300 live births, and 80-85% of Deformational Plagiocephaly cases. Torticollis limits the turning ability of the head causing it to remain on one side (the head will tilt toward the affected side). The soft moldable nature of the infant skull, combined with its weight and a typically firm crib mattress, can lead to flattening of the skull on the side touching the mattress. This condition is often treated with physical therapy to stretch the muscles and allow full range of motion in the neck.



The **N~i.C. BAND™** is not indicated in cases of cranial synostosis (fused cranial sutures as in Plagiocephaly, Brachycephaly, Scaphocephaly and Turincephaly) or hydrocephalus. These conditions require surgical intervention and are beyond the scope of BAND Treatment. However, after the sutures are released, or a shunt installed, a **N~i.C. BAND™** may be utilized to further shape the skull and protect the operative site.

## THE SCANNER

Bay Orthopedic employs the latest in computer imaging technology. No longer are infants put through the trauma of plaster casting for cranial remodeling. Our non-contact, 3-dimensional laser scanner can capture intricate anatomical detail to an accuracy of +/- 0.5mm. This FDA approved scanner is also eye safe.

The procedure for scanning an infant begins with placing a white sock on the baby's head, leaving the face exposed. Small, reflective dots are placed on the sock and at three points on the baby's face. The baby is then placed in mom's lap and the hand-held scanner is moved around the head. The scanner is so advanced it accommodates for your baby's head movement, so no restraint is needed. Two high resolution cameras in the hand-set "see" the lasers reflect off the small dots and record their position. This data is processed to create the three dimensional image of the baby's head. (see picture 1)

After the computer image is modified and made symmetrical, a foam model is then carved using a computer aided design (CAD) carver. (see picture 2). From this symmetrical foam model a **N~i.C. BAND™** is fabricated.



Picture 1



Picture 2