





#### Things to consider

- . This part of the Journey is more relevant for parents
- · Experience varies according to location, city, available specialists, and anatomy
- . Some families stayed in the hospital during all the interstage period or might be discharged before the first surgery and/or in between surgeries (See: A life long journey and map 2.2 for more details)
- . Every family and every patient is different, your journeys will be too. This is meant to serve as a point of reference based on patient and family interviews conducted in the Summer of 2020.

# Interstage and the IMPACT program

What is the Interstage period? Interstage refers to the "high risk" period between your child's first major operation, the Norwood (or other first stage palliation surgery) and their second major operation, the Glenn operation. The Norwood (or other first stage palliation surgery) is performed as soon as your baby is physically ready after birth, and the Glenn operation is performed between 4 and 6 months of age. The heart works very hard after the Norwood operation, and your child will likely require feeding support and careful monitoring for potentially life-threatening medical complications during the first six months of their life

What is the IMPACT program? The Center for Pediatric and Congenital Heart Disease at Dell Children's has an Interdisciplinary Monitoring Program for Ambulatory Cardiac care known as the IMPACT program. This program was started to support Single Ventricle natients and now offers support to other highacuity patients.

Daily Rounds: These are daily visits from the care team including different disciplines, there are two main daily rounds one by the surgery team and one by the psycho-social team. They will walk through the latest updates, goals for the day and next stens

## \*Where you'll be during the Interstage:

There are three primary inpatient care units and one outpatient care clinic that your baby might stay in, transfer between, or be seen in depending on the complexity of care their diagnosis requires. According to your baby's specific journey you might transition back and forth between these units

# CCII: Care Cardiac Unit

Located on the second floor the CCU offers specialized cardiac care. All babies being monitored for cardiac conditions come to the CCU. The Cardiac Care Unit is home to the more intensive care-oriented CVICII and the intermediate care oriented PCPS

### CVICU: Cardiovascular Intensive Care Unit All post-op hearts will be cared for in the CVICU. The CVICU

centralizes the most intense cardiac care in the hospital. It is staffed by cardiac intensivists as well as nurses and other support staff that work mostly if not exclusively with cardiac patients. The experiences for families will differ based on how sick their child is. The most critically ill will have multiple members of the nursing and support team assigned specifically to care for them and they will likely interact with the cardiac intensivist team frequently until the child stabilizes

The Pediatric Consultation and Referral Service (PCRS) has a dedicated arm of physicians that have special interest and training in caring for cardiac patients. When patients are admitted to the hospital under the care of PCRS, they will receive medical care from a team of led by the PCRS attending physician with the rest of the cardiac team.



Innationt Units

#### NICII: Neonatal Intensive Care Unit

Located in 4th Floor, Babies come to the NICU for many reasons, but primarily because they need more care than is offered in the regular nursery. The goal of the NICU is to provide excellent care to your baby and provide you with the tools needed to share positive experiences with your baby. The Level IV NICU has 30 beds and offers 24-hour coverage by neonatologists, nurses, surgical specialists, and ancillary staff who work closely with physicians in a variety of specialties to care for the diverse medical needs babies there. The NICU has all private rooms that control light and sound to aid in the healing of the newborn. There are also Infant/Parent Bonding Rooms to provide monitored support to help parents prepare for home care

4th floor: The Cardiac Clinic is sometimes referred to as the "IMPACT" clinic This is where providers follow SV Interstage patients who are discharged and living at the Ronald McDonald House or live close enough to Dell Children's to stay at home

#### Common Challenges

#### Supporting appropriate neurodevelopment (brain development)

Open heart surgeries at this early stage of life can impact your baby's neurodevelopment. which is why different therapies and psycho-social support are essential to support the development of your baby's brain during the Interstage period and onward through infancy and toddlerhood



#### Providers who can support your baby's neurodevelopment Nutritionist: Measure growth and ensure adequate calorie intake (accounting for possible

food allergies). Speech Therapist: Work with you and your baby on feeding skills if your baby has difficulty

with traditional oral feeding Physical Therapist: Evaluate your baby's physical development and muscle use.

Psychologist or Licensed Social Worker: Support the bonding between babies and parents by supporting appropriate emotional development, management of family stress, and education around appropriate coping mechanisms. Child Life Specialist: Help families and children cope with the challenges of

hospitalization, illness, and disability Music Therapist: Music can be used to address some of the physical, emotional, cognitive,

and social needs of your baby.

### Feeding and Nutrition

Due to multiple surgical operations and potential complications or prolonged hospitalization your baby will likely need some extra nutritional help to support their physical and brain development. Depending on their diagnosis and condition they will likely progress or revert through the following cycle of feeding:

peral Nutrition (TPN)





food your haby until their digestic provides all the nutrients you baby needs through the yeir feeding when your baby's igestive system is not yet in nough to absorb adequate utrients through traditiona fearling methods. If your halve is nal oral feeding method: are not possible.

Once your baby is stable enough to oeive nutrients through their omach, a Gastrostomy (G) tube or baby's stomach. Small amounts of coressed breast milk or formula are hen sently allowed to flow into the omach. If your baby handles these feedings, they are fed progressively temporary measure to help children gain weight while good eating skills are

nce your baby has developed poort parents with breast eeding. Most mothers are ight away so that the flow of mil ither savage, breast, or bottle feeding. Breastfeeding may support mother-infant bonding nd maternal sensitivity. \*Rables frequently on home with a G or NG Tube and require Speech Therapy after the Interstage period

emotional gravity of the Interstage period can be very intense.

Fear and parent-child bonding: Initially it can be very shocking to see your baby connected to multiple machines. Your baby may also appear to be very fragile, which may lead you to be afraid to ouch them. Touch and emotional engagement can support early childhood development. Be sure to ask your Providers about the most appropriate way to connect with your baby based on their diagnosis and condition

Logistical burdens of being consistently at bedside: For all families and especially those lacking ample social support, the logistics that enable parents to be at bedside on a consistent basis can become burdensome. Families are tasked with notentially payigating bedside shifts between parents catching up with or engaging during provider rounds, balancing their duties at work, their family expenses, and caring for their other children at home. These logistical burdens in addition to the

Partnering with Providers to advocate for your baby: As you spend more time with your baby and observe their behavior, you'll grow to better understand their cues and body language, putting you in s position to advocate for them more effectively. As you spend more time in the hospital, your role and relationship with providers may also evolve into more of a partnership. You may be relied upon by Providers to be your baby's advocate. Learning when and in what ways to engage with Providers to best support your baby can be challenging. Interstage can be isolating, even with a strong support network: Even though family and friends

might try to be supportive they may just not "get it." The Interstage period is a complex, highly emotional journey that is best understood by those who have been through it themselves. While it may be uncomfortable, establishing social connections with other families going through their own Interstage journeys or with families or patients who have been through Interstage themselves can be incredibly helpful, especially for families and parents who had to move to central Austin, leaving

Multiple Providers means multiple voices, opinions, and at times approaches: Over the course of the Interstage period you will interact with a lot of different Providers. There are a lot of different Providers working in the CCU, CVICU, PCRS, NICU, and the Cardiac Clinic at Dell Children's. Providers frequently rotate in and out of these units. Sometimes you may hear seemingly conflicting opinions or will notice inconsistencies in approaches to care, which may feel like a lack of support.

Parents neglecting self-care is all too common: It is common for parents to dedicate themselves to the full-time care of their baby during the Interstage period. It is also common that in doing so parents neglect self-care. It can be hard to leave your baby's bedside but you need to make time to take care of yourself so you can be there as your best self for your baby to advocate for them during this stage







