



Serving our community for over 40 years.



Your family's health comes first at Pensacola Pediatrics.

From prenatal visits and preventive care to treatments of acute illnesses and the ongoing treatment of chronic conditions, Pensacola Pediatrics offers comprehensive medical treatment for children from infancy through adolescence.

Our compassionate, knowledgeable, and supportive staff maintains the highest level of accreditation in pediatrics. Our physicians are board-certified specialists and extensively trained in the diagnosis and treatment of children's diseases.

Our doctors and staff look forward to building a relationship with you and your family.

DISCLOSURE

This class is for general educational purposes only.

We cannot diagnose medical conditions or discuss treatment plans for individuals.

If you have any concerns about you or your baby, please contact your pediatrician.

WHAT WE WILL BE DISCUSSING TODAY:

Part A: The Newborn Nursery

The Newborn Nursery

- General appearance
- Feeding
- Voiding/pooping
- BONUS: Almost home!
- First visit to your pediatrician

Part B: Going Home!

- Sleeping
 - Sudden Unexpected Infant Death (SUID)
- Temperature regulation
- Bathing
- Car seat safety
- Questions

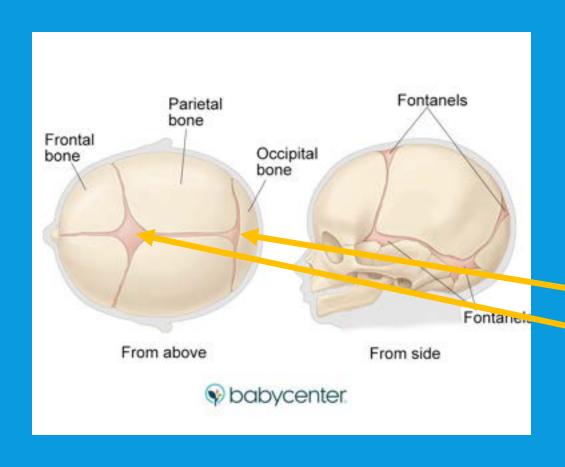
PARTA

The Newborn Nursery

General Appearance

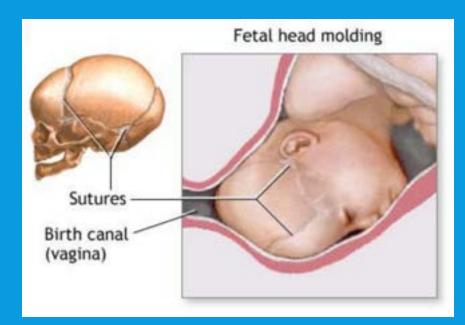


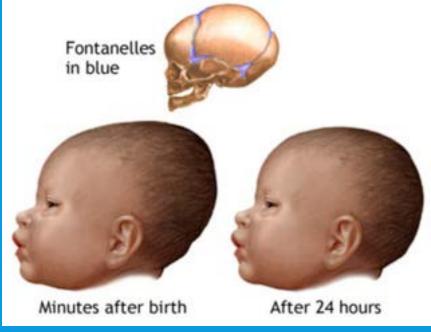
FONTANELLE



- "Soft spots"
- Open areas in the skull covered by a tough, fibrous membrane
- Allows molding during birth and rapid growth of the brain
- Touching this area is safe
- Posterior fontanelle closes around 3 months
- Anterior fontanelle closes around 9-18 month

MOLDING



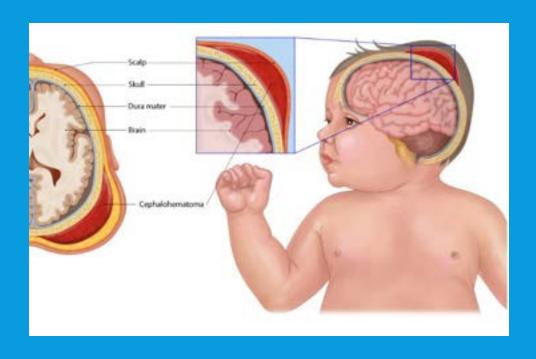


CAPUT SUCCEDANEUM

- Benign swelling of the scalp formed during delivery
- Caused by prolonged labor, vacuum assisted delivery, or premature rupture of membranes
- Resolves within a few days
- Does not require treatment



CEPHALOHEMATOMA



- Accumulation of blood beneath the scalp
- Caused by prolonged labor, macrosomia, instrument assisted deliver (forceps or vacuum)
- Resolves within a few days
- If large it can lead to calcification of the hematoma
- Does not require treatment
- Increased risk for jaundice

SUBCONJUNCTIVAL HEMORRHAGE



- Broken blood vessels in the eye that occurs during delivery due to increased pressure as baby exits birth canal
- Benign
- Will resolve spontaneously without treatment

NEONATAL CONJUNCTIVITIS: EYE DISCHARGE



- Usually due to a blocked tear duct, chemical or infectious conjunctivitis
- Drainage develops within 1 day to 2 weeks after birth
- There may be watery, bloody, or pus-like drainage form the eye
- Treatment depends on the cause
 - Blocked tear duct: massages, warm compresses
 - Infectious: antibiotics

ANKYLOGLOSSIA: TONGUE TIE



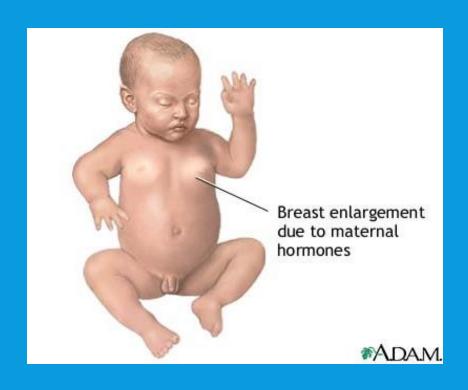
- Short band (lingual frenulum) that connects the bottom of the tongue to the mouth
- The band normally stretches with time, movement, and growth
- Most infants can breastfeed without difficulty
- No intervention required unless difficulty feeding, pain with breastfeeding, or difficulty with speech later in life

EPSTEIN PEARLS



- Small, keratin-filled cysts presenting on the oral mucosacommonly found on palate
- Very common and benign
- Spontaneously resolve with within several months of birth

BREAST BUDS



- It is normal for a neonate (boys and girls) to have swollen breasts or firm lumps beneath the nipple
- Sometimes the nipples may leak a milky discharge (used to be called 'witch milk')
- This is due to maternal hormones passed to the baby in utero
- Never squeeze or massage the breasts or nipple as this can damage the developing breast bud
- Call the doctor if the become asymmetric, red, tender, or purulent discharge is seen

UMBILICAL CORD CARE



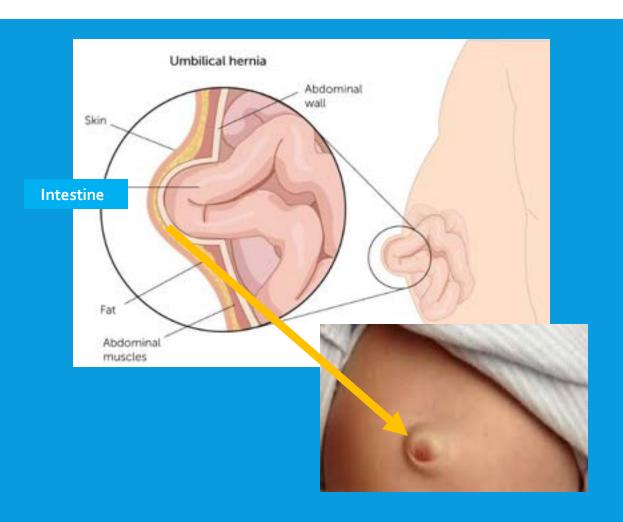
- In the first few weeks after the baby is born, you will need to keep the umbilical stump clean and dry until it shrivels up and falls off.
- Fold the top of the diaper below the stump to prevent irritation and contact with urine.
- Baby soap and water may be used for cleaning. Be sure to dry the stump afterwards if water reaches it.
- No need to use alcohol!
- There may be a small amount of blood around the diaper when the stump falls off. This is normal.
- If there is a large amount of blood, apply pressure to the area and call your pediatrician.
- Although rare, if the area around the stump becomes red, swollen, painful, or has foul-smelling drainage, call your pediatrician as it may be infected and require antibiotics.
- The stump should fall off within 3 weeks.

UMBILICAL GRANULOMA

- Overgrowth of scar tissue in place of previous umbilical stump
- It can be fleshy pink, or bright red
- It can leak a small amount of clear or even blood-tinged fluid
- If you think your baby has a granuloma call your peds office for an appt since this can be easily treated there.



UMBILICAL HERNIA



Small defect in the abdominal wall that allows tissue to bulge through when there is increased abdominal pressure

Laughing, crying stooling, squirming

Usually heals spontaneously in 1-2ys with no complications

It may take longer in African American children for unknown reasons

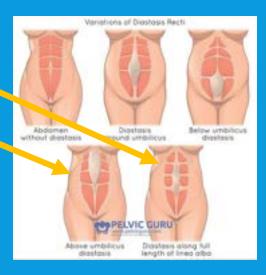
It is not necessary to put tape over the area

If you are not able to massage the hernia back into the abdomen or it appears painful, call the pediatrician immediately

DIASTASIS RECTI



- Vertical bulge of abdomen
- Normal finding
- Caused by weakening of tissue joining abdominal wall muscles



GENITALIA

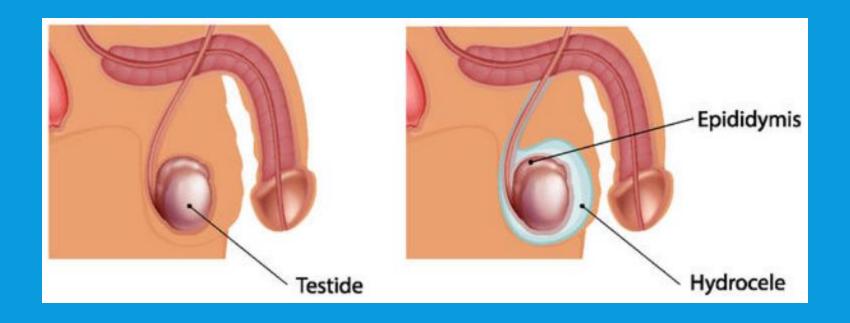
VAGINAL BLEEDING AND DISCHARGE



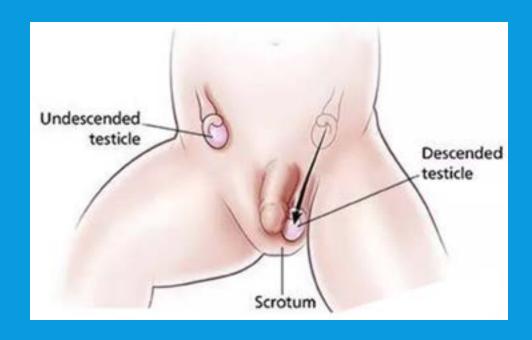
- As maternal estrogen in the baby's bloodstream declines, vaginal discharge may occur
- Discharge may be clear-white or pinkish and blood-tinged
- This is normal and should not last more than 3-4 days

HYDROCELE

- The newborn scrotum can be filled with clear fluid
- Resolves over 6-12 months



UNDESCENDED TESTICLE



- The testicle is not fully in the scrotum in about 4% of newborns
- Many will gradually descend into normal positioning in the following months
- By 1 year of age, less than 1% remain undescended
- These may require surgical intervention to preserve fertility and reduce risk of testicular cancer

SKIN

Common findings, and care.

VERNIX CASEOSA



- Thick, waxy or cheesy substance that covers a neonate when first born
- Functions to protect the baby while floating in amniotic fluid in the womb and it helps them adapt to extrauterine life
- Should wash off during the first bath.
- Some parents elect to not have it washed off until the 1st-2nd week of life.
 - This is completely your choice!

SKIN PEELING

Starts between 24-48 hrs and peaks between days 6 and 10



Ok to use gentle emollients and/or moisturizers



ERYTHEMA TOXICUM

- Small pustules with surrounding red splotches
- Occur in 50% of newborns
- Usually occurs within 5 days
- Can be intermittent over the first couple of weeks of life
- Resolves spontaneously
- No intervention required



BABY ACNE

- Caused by exposure to maternal hormones
- Red bumps with a small pustule are seen usually on the face
- Usually occurs within 2-4 weeks but may appear up to 4 months
- Last for 12-18 months



SEBORRHEIC DERMATITIS





- Red patches with greasy, yellow scales
- Appears within the first 2 months of life
- Can be seen in skin folds, face, neck, and scalp ('cradle cap')
- Can go away on its own but it can also require treatment with antifungal shampoos/creams or steroid creams in some cases
- If noted on face try washing with gentle baby soap (fragrance/dye/perfume free)

NEVUS SIMPLEX: ANGEL'S KISS, STORK BITE

- Common, temporary and pink, red, or purple birthmarks
- Usually appear on the forehead, eyelids, nose or the back of the head and neck
- Due to stretching and dilation of underlying blood vessels
- May darken when baby cries or with temperature changes
- Purely cosmetic, no intervention required
- Angel Kisses on the face normally resolve within 18 months





CONGENITAL DERMAL MELANOCYTOSIS

- Flat, blueish-gray birthmarks appearing at birth or shortly after
- Due to a collection of melanocytes in the deep layers of the skin
- Common amongst Asian, Native American, Hispanic, Indian, and African Americans
- No intervention needed
- Usually fade between 1-6 years of age



MILIA

- Tiny white bumps on the skin, usually on the nose and cheeks
- Dead skin (keratin) becomes trapped in small pockets at the surface of the skin
- Resolve by 1 month of life but they can persist for a bit longer



INFANTILE 'STRAWBERRY' HEMANGIOMA

- Benign (non-cancerous) tumor of small blood vessels
- 80% involve head and neck
- Fastest growth occurs within first 8 weeks
- Size peaks at 12 months
- Most resolve by 4-6 years of age
- Most are small and harmless requiring no intervention
- Intervention may be required for large hemangiomas or depending on their location



LANUGO: HAIR

- Fine hair that covers most of the baby's skin, especially in preterm babies
- Helps with thermoregulation
- Disappears within a few weeks of life



ACROCYANOSIS

- Blueish, white, or gray coloring of the hands, feet, or around the mouth
- Caused by changes in blood flow as the baby transitions to a new environment or if they cry
- This is temporary, and remedied by increasing room temperature, warming baby, or when they stop crying
- This is normal and will resolve on its own



JAUNDICE





JAUNDICE

- Jaundice is yellowing of the baby's skin or eyes
- It occurs when there is a high level of bilirubin in the baby's blood
- Bilirubin is a yellow byproduct from the breakdown of red blood cells
- Most newborns have physiologic jaundice which is normal
 - Noticeable around 2-4 days ad resolves within 2 weeks
- Can occur due to poor oral intake (breastmilk or formula) or substances that can be present in some moms' breast milk
- Other causes include baby's increased bruises/hematomas (remember cephalohematomas?), blood mismatch between baby and mom, infection, or abnormal blood cell shapes
- Treatment: Increase oral intake and phototherapy depending on severity



FEEDING

Breastfeeding

BENEFITS OF BREASTFEEDING



Breastfeeding protects against a variety of diseases and conditions via transference of antibodies and other immune products through breast milk:

Severs bacterial infections

Diarrhea

Respiratory tract infections

Necrotizing enterocolitis

Otitis media

Urinary tract infections

Late-onset sepsis in premature infants

Type 1 and 2 diabetes

Leukemia, lymphoma, and Hodgkin's

Childhood obesity

BENEFITS OF BREASTFEEDING FOR MOTHERS

- Decreased postpartum bleeding
- Rapid uterine involution
- Decreased menstrual blood loss and increased child spacing (lactational amenorrhea)
- Earlier return to pre-pregnancy weight
- Decreased risk of breast and ovarian cancers

RAPID FIRE QUESTIONS ABOUT BREASTFEEDING...

How long does it take for my milk to come in?

Is there anything I can do to help with my supply? How long should baby stay at the breast?

Moms who have a vaginal delivery usually get their milk within the first 3 days post-delivery. For C-section moms, the milk can take a little bit longer (5-6 days at max) to come in fully.

Absolutely!

Offer the breast frequently to baby, manually express, or pump. Nipple stimulation is very helpful. Make sure to keep this in a schedule-every 3 hrs.

Drink at least 100 oz of water per day

Make sure you are eating well.

Rest when possible.

Once breastmilk is in, the total time spent in one session should be between 20-30 minutes. This is to prevent any non-nutritional suckling (baby using you as a paci).

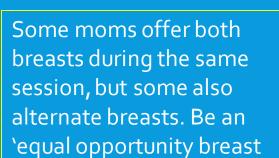
How often does a breastfed baby feed?

Babies can breastfeed very frequently in the beginning. This is called cluster feeding. It helps to 'call milk in.' Typically, once milk is in most will breastfeed every 2-3 hrs.

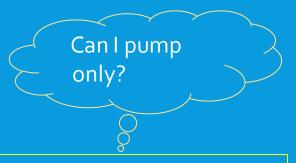
Do I need to wake up my baby to feed at night?

Yes! A baby less than 1 month of age should never go more than 3 hrs. without feeding. 'Good babies' need to be reminded to feed since they might want to sleep longer and their sugar levels can drop causing health problems

Do I offer both breasts always?



feeder!'



It is completely ok to pump! Ok to pump in the start while you are figuring direct breastfeeding.

Always offer the breast first. There are many moms who decide to become exclusive pumpers as well.

Does my baby need any vitamins?

Do I need any supplements while I breastfeed?

Baby should take 400 IU daily of vitamin D. You can obtain drops OTC. If mom desires to take enough vitamin for both baby and her she must take 6000 IU daily so baby can get enough through the breastmilk.

You should continue with your multivitamins while breastfeeding or have postnatal vitamins daily. You must ensure that you are taking at least:

Calcium - 1,300 mg Vitamin C- 120 mg Vitamin D- 600 IU



What if things are not going well with breastfeeding?

That's ok! Breastfeeding can be really hard! Ask for a lactation consultant to visit you while in the hospital or schedule a consultation when you get home.

Tip: Some insurances will cover up to 5 visits! Find some IBLCs that are in-network ©



FEEDING

Formula Feeding

TYPES OF FORMULAS

POWDER

 Powder: typically 1 scoop of formula per 2 oz of water



LIQUID CONCENTRATE

 Liquid concentrate: usually equal parts formula and water

READY TO FEED

No mixing required





BABY FEEDING CHART

Age	Ounces per Feeding	Number of Feeds in 24 hours
Newborns	2 to 3 oz.	8 to 12 feedings per day
2 months	4 to 5 oz.	6 to 8 feedings per day
4 to 6 months	4 to 6 oz.	5 to 8 feedings per day (you can also gradually introducing solid foods)
6 to 12 months	Tip: These are pretty high volumes. Most babies max out around 5-6 oz.	5 to 6 feedings per day, plus 2 to 3 meals of solid foods

USE QUICKLY OR STORE SAFELY



Use prepared infant formula within 1 hour from start of feeding and within 2 hours of preparation.



If you are not going to use the prepared infant formula within 2 hours, immediately store the bottle in the refrigerator and use it within 24 hours.



Throw out any infant formula that's left in the bottle after feeding your baby. Do not refrigerate it to save for later. The combination of infant formula and your baby's saliva can cause bacteria to grow.

SPITTING UP (REFLUX) VS. VOMITING

- All babies are prone to spit-up as their musculature is weak and they tend to gulp air while feeding
- Reflux tends to occur when the baby is full or their position is suddenly changed
- Spitting up is the easy flow of contents from the stomach to the mouth, frequently with a burp
- Vomiting is more forceful
- Call the pediatrician if there is forceful vomiting, a neon yellow or green color, blood, worsening in frequency, or if the baby appears ill

TECHNIQUES TO REDUCE REFLUX

- Keep the baby in an upright position (30 degree angle) for 30 minutes after feeding
- Burp the baby after every feed or even halfway through the feed
- Try smaller amounts per feeding or longer periods between feeding
- Loosen diapers

PACIFIERS

Pros:

- Soothe a fussy baby
- Offers temporary distraction
- Helps your baby fall asleep
- Ease discomfort during flights by equalizing pressure
- May help reduce the risk of sudden infant death syndrome (SUIDS)
- Pacifiers are disposable

Cons:

- Your baby might become dependent on the pacifier to fall asleep
- Prolonged pacifier use might lead to dental problems
- Pacifier use could disrupt breastfeeding* consider waiting to offer a pacifier until you've at least established a good latch

**Many patients have been excellent at breastfeeding and have a pacifier ©

WASTE!

Voiding and Pooping!

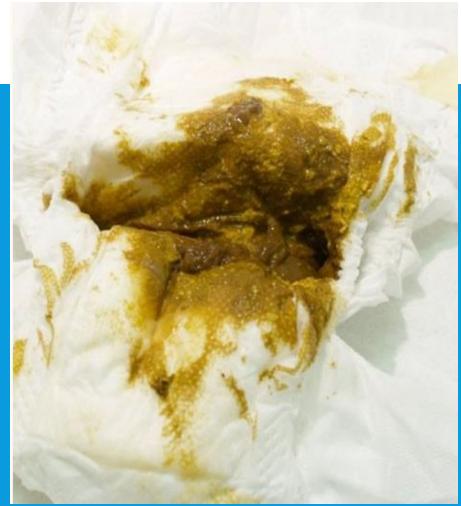
URINATION

- Expect 1 wet diaper for each day of life until day 5. Thereafter, expect a minimum of 5 wet diapers per day.
- Some infants may develop urate crystals or "brick dust" in their urine in the first week of life, especially in breastfed infants. This may be a sign of dehydration.

STOOLING

- The first stool is referred to as <u>meconium</u> which is a thick, green-black substance that is sticky and odorless and may persist for a few days
- Transition stools change from meconium to yellow, seedy stools which is normal
- Stools may have a small amount of blood due to swallowed maternal blood
- Transition usually occurs by day 3-4 of life while a lack of transition is usually due to inadequate feeding





STOOLING HABITS

- Frequency of bowel movements varies greatly. Your baby's frequency is considered normal if they are feeding well and have soft, regular stools
- Pushing, straining, grunting, becoming flushed, and drawing up the legs can be normal at any age- Remember these two words: INFANT DYSCHEZIA
- True constipation: crying with stool passage, hard and pellet-like stools
- True diarrhea: sudden increased in amount, bloody, or watery

DIAPER RASH

- Very common!
- It can be caused by:
 - Urine and/or poop content (acidity, ammonia etc.)
 - Yeast
 - Bacteria
 - Eczema
 - Treatment can be tricky sometimes depending on severity.

- MAINTAKE-AWAY: PREVENTION IS KEY!
- Change the diaper often and as soon as possible after the baby urinates or passes stool
- Pat the area dry w/ towel, cloth, or washcloth or allow to air-dry (you can also use blow dryer at lowest setting)
- Use absorbent diapers
- MY PERSONAL RECOMMENDATION: ALWAYS HAVE A BARRIER CREAM/OINTMENT ON.
 - Zinc oxide (Desitin/Boudreaux), or petroleum jelly-based products to help keep moisture away form your baby's skin – must be applied to completely clean, dry skin
 - LOVE VASELINE ©
- Do not use wipes that have alcohol or perfume and do not use talcum powder as it can get into baby's lungs.

ALMOST GOING HOME!

What happens before we let you go!

EYE PROPHYLAXIS: ERYTHROMYCIN OINTMENT

 Ocular prophylaxis with erythromycin ointment is the standard of care for all newborns in the United States

Gonorrhea

- Erythromycin prevents gonococcal ophthalmia neonatorum (GON) which is a severe infection of the eye that can lead to corneal scarring, ocular perforation, and blindness in as early as 24 hours after birth.
- The United States Preventive Services Task Force (USPSTF) recommends this to all neonates as it is safe and effective.

BLEEDING PROPHYLAXIS: VITAMIN K

- Babies are born with insufficient levels of Vitamin K which helps blood clotting. This deficiency puts them at risk for severe bleeding.
- Per the CDC, research has shown that a single Vitamin K shot at birth prevents dangerous bleeding which can lead to brain damage and death.
- Breastmilk has very little Vitamin K which means babies will be deficient until they start trying regular foods around 6 months.

Vitamin K

Babies are born with very small amounts of Vitamin K in their bodies which can lead to serious bleeding problems. Vitamin K is needed for blood to clot normally.

the vitamin K injection at birth can develop Vitamin K Deficiency Bleeding (VKDB).

One dose given after birth will protect your baby from VKDB.



Hepatitis B Facts

1.4 million people in the United States are living with chronic HepB. Most were infected as infants or during early childhood.



HepB can survive over 7 days on contaminated surfaces.

Up to two-thirds of Americans living with chronic HepB do not know they are infected.

90% of infants and 50% of children under 5 who contract hepB will develop chronic disease, leading to liver cancer, cirrhosis, and premature death.

HepB is transferred by bodily fluids, usually blood. It can be passed from an infected mother to her baby at birth, or from a family member in close household contact to young children.

HepB infections have decreased 95% in children and adolecents since 1990 when the Hepatitis B vaccine was recommended for all newborns.

CIRCUMCISION

- Procedure during which anterior portion of foreskin is removed to expose glans of penis.
- This is a complete elective procedure that can be completed in the hospital or at your pediatrician's/OB's office if there are no anatomical abnormalities
 - Hospital: Mention right away to your OB triage nurse, mention once again to your mom-baby nurse, and hospitalist
 - It will be performed by a pediatrician or your OB (depending on provider and availability)
 - Outpatient: ask your pediatrician during a prenatal visit if they perform the procedure in the office
- If elected: You might need LOTS of VASELINE, depending on the style of procedure.

PEDIATRICIAN FOLLOW-UP

- It is extremely important to follow up with your pediatrician shortly after discharge from the hospital
 - CALL US BEFORE YOU LEAVE THE HOSPITAL!
 - We typically recommend scheduling the first appt within the first 24-48 hrs post-discharge unless told otherwise by hospitalist
- This allows for baseline examination close to birth, weight check, evaluation for jaundice, assurance of appropriate care and feeding, and to answer questions.
 - Write your questions down
 - Make sure your baby is bundled well and is wearing a hat. Our offices are very cold!
 - Bring extra blankets, and outfits. They like to poop and pee themselves during our first visit ©

PART B

WELCOME HOME!

Safe Sleep

Safe Sleep Setting for Your Baby

Creating a safe sleep environment can reduce your baby's risk of sleep-related causes of infant death.





Baby should sleep in the same room with parents.



Use a safetyapproved crib with a firm mattress and fitted sheet.



Baby should not sleep on the couch or chair, with someone or alone.



Keep objects out of the baby's sleep area/crib.

- Do not use pillows, blankets, bumpers, toys, plush objects.
- Always make sure that nothing is covering your baby's head.



Do not smoke near your baby.



Dress baby in sleep clothing. Do not use a loose blanket as clothes and be sure not to over bundle.



Always place your baby on its back to sleep.

Sudden Unexpected Infant Death Syndrome (SUIDS)

SUIDS

- Cause is unknown but possibly linked to problems in the sleep/wake cycle or an inability of the infant to detect increase of carbon dioxide levels
- FOLLOW SAFE SLEEP GUIDELINES ALWAYS!
- Offer a pacifier when going to sleep
- Ensure the room temperature is not too hot
- Keep your baby in a smoke-free environment
- Mothers should avoid alcohol and drug use during and after pregnancy
- Breastfeed your baby if possible

Temperature

TAKING A NEWBORN'S TEMPERATURE

How to take a rectal temperature:

- Apply a small amount of Vaseline to the silver tip of your rectal thermometer.
- 2. Insert the silver tip until no longer visualized. Most thermometers will have a change in width close to the tip. That's how far you can insert.
- 3. Wait until your thermometer screen blinks, changes colors, or your hear a musical tone.
- 4. Clean your thermometer with a wipe, and store in a WELL LABELED CONTAINER OR BAG (EEK!)

True fever: 100.4 F or greater

Hypothermia: 97.4 F or less

Take the babies temperature if they feel warm, appear ill, or have symptoms such as nasal congestion, cough, working hard to breathe, vomiting, diarrhea, feeding difficulties, more fussy or sleeping more than usual.

If your baby is less than 2 months of age and has a TRUE FEVER or is HYPOTHERMIC, PLEASETAKE HIM/HER/THEYTOTHE EMERGENCY DEPARTMENT.

TEMPERATURE REGULATION AT HOME

 Newborn nursery temperature should be at least 72 F for babies who are less than one month old

 Put one extra layer on the baby above what we are comfortable in ourselves

- For preterm babies, it is recommended to place a double hat on the head when going outside, especially in the winter
 - No hats for sleeping!

SUMMER



- Keep babies younger than 6 months out of direct sunlight. Try to find an umbrella, shade by a tree or even a stroller with a canopy
- Try to choose protective clothing/rashguard suits labeled with an Ultraviolet Protection Factor (UPF)
- Wear a hat with an all-around 3-inch brim to shield the face, ears, and back of the neck
- Sunscreen?
 - Broad spectrum
 - SPF 15-30 at minimum
 - Mineral preferred or Titanium dioxide or zinc oxide
 - <6 months: Small areas of the body such as face in protective clothing when shade is not available.
 - >6 months: Apply to all areas of the body. Careful with the eyes!

WINTER



Respiratory illness such as RSV peak during these times. Consider Beyfortus (RSV antibodies!) shot if available and offered by your pediatrician ©

Try to limit visitation to the household, especially in the first 30 days of life

Hand hygiene!

If your baby develops a true fever, please notify the pediatrician immediately or take to the Emergency Department

Bathing

- Use warm, not hot, water place your elbow under the water or touch with inner wrist to check temperature
- Keep your baby's umbilical cord dry
- Wash your baby's head last so that their head does not get too cold
- Have a towel ready to wrap your newborn in to dry and keep warm right after the bath



Car Seat Safety

Adjust car seat angle so baby's head doesn't flop forward

In rear-facing car seats, harness straps should

In rear-facing car seats, harness straps should be at or below baby's shoulders

Harness straps should be snug (if you can pinch them, they're too loose)

Chest clip should be at the center of baby's chest, level with armpits

If it's cold, place a blanket on baby over the straps

Remove baby's bulky coat or bunting before strapping in

Remove headbands that could slip over baby's face

QUESTIONS?

Pass your questions to the front!



Remember...

The next year of your life will be like no other. It will be full of ups and downs. Tears, laughter, and maybe some yelling too. But it will be the only first year you will get with your little one.

Love, care, and give yourself grace.

You've got this! ©



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"Helpful Links" page on PensacolaPediatrics.com

or scan the Newborn Class QR code below.





