WELL CHILD CARE



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DISCLOSURES

• I have no relevant financial disclosures



OBJECTIVES

- Explain the concept of well-child care including its importance in child development
- Identify the key components of well-child care including regular health check-ups, vaccinations, nutrition, health and developmental screenings.
- Emphasize preventative health measures including vaccinations, nutrition and anticipatory guidance and their role in preventing childhood diseases.
- Discuss challenges and barriers to effective well-child care including socioeconomic factors, healthcare access, education, etc.
- Highlight existing global initiatives and programs aimed at improving well-child care including the WHO's IMCI.

THE WELL CHILD CHECK

- A child coming to health facility at pre-determined intervals seeking preventative health services
 - o Immunizations
 - Feeding Advice and nutrition
 - Growth and developmental monitoring
 - Education and anticipatory guidance
 - Health Screenings
 - Referrals to appropriate services



THE WELL CHILD CHECK

Per the WHO, there are over 200 million children under age 5 who are not developing to their full potential because they did not get simple and essential interventions to promote their development.

Care that children receive has powerful effects on their survival, growth, and development.

The key risk factors for development include issues like stunting, iron deficiency, iodine deficiency, frequent illness and difficulty learning new skills, understanding the world around them, solving problems and communicating with others.

THIS CARE LOOKS LIKE...

- Regular check-ups at a medical home.
- Additional screening/evaluation when child presents for sick care
- School or community-based
 health screenings
- Community health workers or others visiting the home
- Finding creative, new ways to provide access to care



WHAT RESOURCES?

- Many resources exist to help guide these visits:
 - AAP Well Child Schedule
 and Bright Futures
 - WHO Integrated
 Management of
 Childhood Illness (IMCI)
 - AAFP
 - Country or state specific guidance based on where you practice.



Bright Futures...

prevention and health promotion for infants, children, adolescents, and their families™



AAFP Child and Adolescent Health



When are Well-Child Visits?







3-5 days 1 month 2 months

4 months9 months6 months12 months





15 months 18 months



24 months 30 months 3 years



WELL VISIT INTERVAL



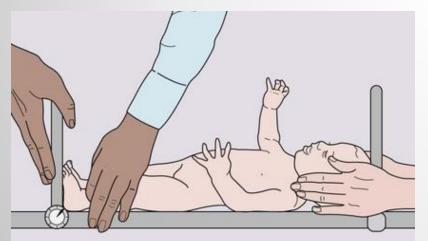
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MONITORING GROWTH

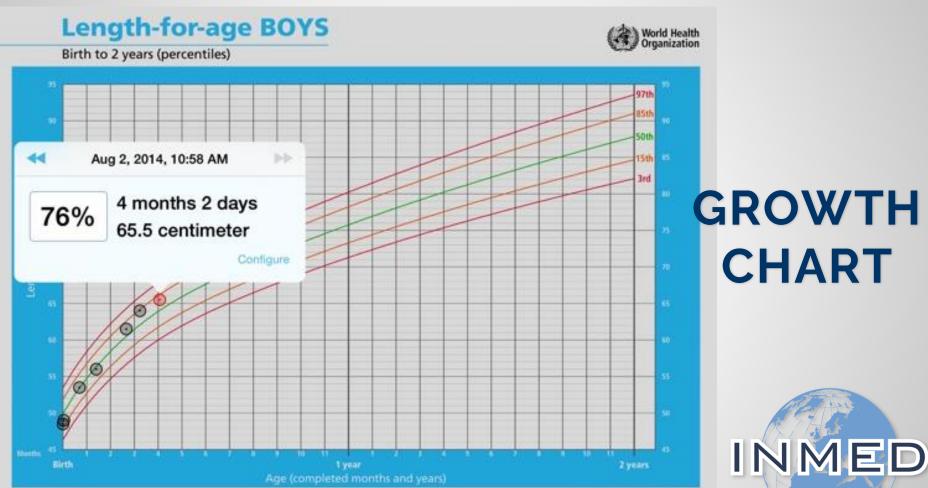
- Child growth is an important marker of nutrition, overall heath, and social determinants of health.
- Growth requires the healthcare professional to consider the parent-child relationship and other familial dynamics.
- Growth and development can also reflect of larger economic, societal, or equity issues for the patient.

MONITORING GROWTH









WHO Child Growth Standards

GROWTH CHART

MONITORING GROWTH

- Monitor weight, length/height, and head circumference.
- The PCP calculates the weight and height/length for age as well as the weight for height (WFH) ratio.
 - Low weight for age = underweight
 - Low height for age = stunting
 - Low weight for height = wasting
- In many places, children will receive a monitoring booklet to track growth.

TAKING A HISTORY

- Health Care provider tries to get a sense of the child's history, and the child and family's overall health and day to day activities.
 - Birth, medical and surgical history
 - Family history
 - Prior screenings: hearing, vision, dental, behavioral
 - Diet and Nutrition
 - Sleep
 - Day to Day behaviors, schooling, etc.
 - Social History



TAKING A HISTORY

BCG DPT+ OPV-0 OPV-' Hep B0 Hep B RTV-1	OPV-2	DPT+HIB-3 OPV-3	Measles1	Measles 2	Vitamin A	immunization on:
Нер ВО Нер В		OPV-3			VICATINITA	
					Mebendazole	(Date)
RTV-1	1 Hep B2	Hep B3				(Date)
	RTV-2	RTV-3				
Pneur	no-1 Pneumo-2	Pneumo-3				
Pneumo-1 Pneumo-2 Pneumo-3 ASSESS FEEDING if the child is less then 2 years old, has MODERATE ACUTE MALNUTRITION, ANAEMIA, or is HIV exposed or infected • Do you breastfeed your child? Yes No • If yes, how many times in 24 hours? times. Do you breastfeed during the night? Yes No • Does the child take any other foods or fluids? Yes No • If Yes, what food or fluids? • How many times per day? times. What do you use to feed the child? • If MODERATE ACUTE MALNUTRITION: How large are servings? • Does the child receive his own serving? Who feeds the child and how? • During this illness, has the child's feeding changed? Yes No • If Yes, how? ASSESS OTHER PROBLEMS:						



- Globally, ~45% of "younger than 5 deaths" are attributed to undernutrition
 – most of which are preventable.
- It is noteworthy that to observe that nutrition-related factors including maternal deficiencies, IUGR, post-natal growth and stunting accounted for most of the risk factors for poor development
- Primary care is a critical link in this prevention



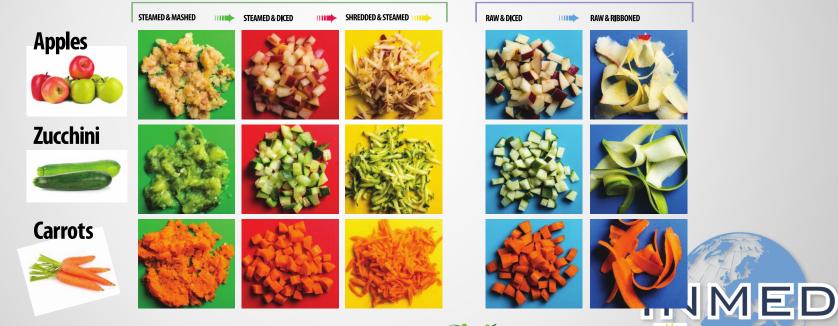
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- First, assess daily feeding habits and routines for the child—always seek to understand
- Before giving advice—build confidence. Avoid judgement or being dismissive of cultural or religious practices that affect diet or are unfamiliar to you.
- Counsel according to age, focusing on the ages where new nutritional habits occur (ex: 6 mos.)
- Explain recommendations and make suggestions if not being followed.
 INMED

Finger Foods Fruits and vege meet his or her

Fruits and vegetables make great finger foods for your child. You can prepare them in ways that meet his or her age and ability. Talk to your pediatrician about what is right for your child.

Most babies transition to finger food between 9-12 months, starting with steamed and mashed and progressing to other small, soft, chewable pieces as their ability permits. These food preparations are for older children. Children don't learn to chew with a grinding motion until they're about four years old.



Safety is the priority when feeding your baby, toddler, and child. Be sure to discuss choking prevention and food allergies with your pediatrician. Make sure all foods you give your baby are soft, easy to swallow, and cut into small pieces. Fruits and vegetables should be mashed or cooked until they are soft. Foods that are hard, round or sticky, or are difficult to chew and swallow should not be given to children under 4 years. All babies, toddlers, and children should be safety seated and supervised by an adult when eating.





IMPORTANT TO INCLUDE ALL FOOD GROUPS

- Cereals, roots, and tubers: rice, wheat, maize, millet, sorghum, cassava, yams, potatoes
- Foods of animal original and legumes: meats, chicken, fishes, eggs, milk products (milk, cheese and yoghurt), chickpeas, lentils, beans, cowpeas
- Green leafy and orange-fleshed vegetables: carrots, pumpkins, avocados, leafy greens
- Fruits: mangoes, oranges, bananas, all locally available fruits, given mashed
- **Oils, fats, sugar, and honey:** Diets need adequate fat content, including oils (preferably seed oils like groundnuts, cashew, pumpkin, and sunflower), margarine, butter, or lard

IMPORTANT VITAMINS AND RECOMMENDED FOODS

IRON	Green leafy vegetables, fish, meat, chicken, liver or kidney, eggs	
ZINC	Fish, meat, chicken, liver or kidney, eggs	
VITAMIN A	Dark coloured fruits and vegetables, red palm oil	
VITAMIN C	Many fruits, vegetables, and potatoes	
B VITAMINS: RIBOFLAVIN	Liver, egg, dairy products, green leafy vegetables, soybeans	
B VITAMINS: VITAMIN B6	Meat, poultry, fish, banana, green leafy vegetables, potato and other tubers, peanuts	
B VITAMINS: FOLATE	Legumes, green leafy vegetables, orange juice	



HUNGER SCREENING

KEY FACTS: CHILDHOOD FOOD INSECURITY AND THE ROLE OF PEDIATRICIANS



SCREEN

Use the AAP-recommended Hunger Vital Sign[™]:

1. "Within the past 12 months, we worried whether our food would run out before we got money to buy more."

□ OFTEN TRUE □ SOMETIMES TRUE □ NEVER TRUE □ DON'T KNOW/REFUSED

2. "Within the past 12 months, the food we bought just didn't last and we didn't have money to get more."

□ OFTEN TRUE □ SOMETIMES TRUE □ NEVER TRUE □ DON'T KNOW/REFUSED



- If feeding issues are identified, intervene with education right away.
- Refer to appropriate resources
- Ensure close follow up and monitoring, especially in the setting of malnutrition.
- Ensure safe sources of water and ask about safe food storage.
- Reiterate handwashing practices and give anticipatory guidance on feeding while sick.

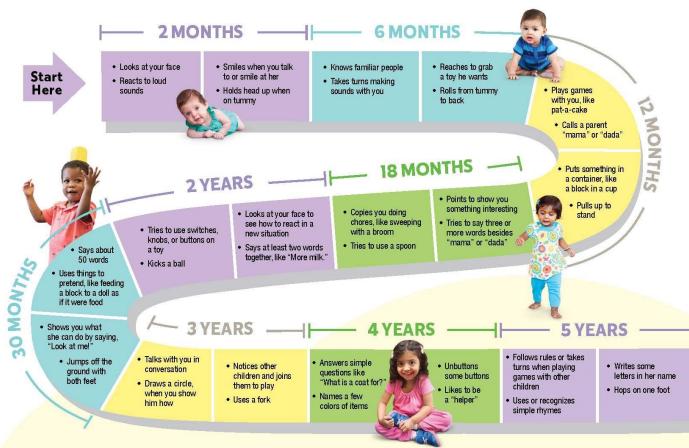


DEVELOPMENTAL ASSESSMENT

- Assessing for developmental milestones is different at each • age/stage of development.
- Much of basic pediatric assessment is occurring during your entire interaction.
 - Smiling with or engaging infants with a toy or object.
 - Pick up the infant, see if they can hold their head unsupported, sit, etc. during physical examination.
 - Looking for expected stranger anxiety, etc.
 - Looking for curiosity and interaction from older children. ۲ INMED
 - Assessing attachment •

Your Child's Early Development is a Journey

These are just a few of many important milestones to look for. For complete checklists for your child's age visit www.cdc.gov/Milestones or download CDC's free *Milestone Tracker* app.





PHYSICAL EXAMINATION

- Head to toe physical exam at every well visit.
- All body systems assessed including:
 - General appearance/Skin
 - HEENT
 - Cardiovascular
 - Respiratory
 - Gastrointestinal
 - Genitourinary
 - Musculoskeletal





TIPS FOR THE PEDIATRIC EXAM

- Make the patient feel safe and secure
- Have all the supplies and equipment you need ready and in hand
- Give Choices
- Be Flexible
- Always use a tongue depressor
- Let the child engage with instruments touch otoscope light, put stethoscope bell on toy/stuffie prior to use on them. Consider mock exam on self, stuffie, or parent.

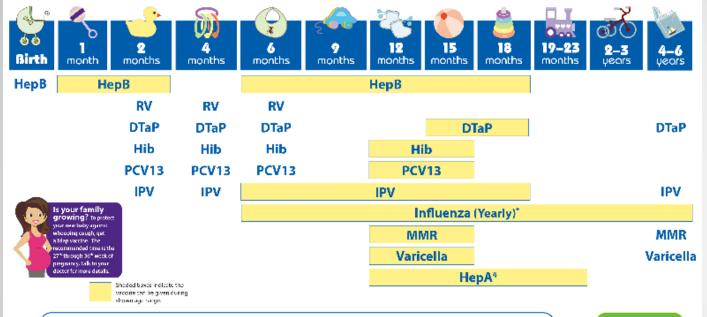
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- Don't skip the genital exam.
- Have parents palpate or help localize any pain prior to your exam.
- Have parents help position for the ear exam, which can be the hardest.

IMMUNIZATIONS

- Important part of preventative health
- The recommended vaccine should be given when the child reaches the appropriate age for each dose.
- If vaccination is administered **too early**, protection may not be adequate.
- If there is any **delay** in giving the appropriate vaccine, this will increase the risk of the child developing the disease.

2020 Recommended Immunizations for Children from Birth Through 6 Years Old



IMMUNIZ-ATIONS

NOTE:

If your child misses a shot, you don't need to start over Just go back to your child's doctor for the next shot talk with your child's darter if you have questions about vacines.

FOOTNOTES:

• Two does given at least four-works apart are recommended for children age 6 months through 8 years of age who are getting an influenza (flu) vaccine for the first time and for some other children in this age group.

 Two does of LepA vectories are needed for lesting protection. The hot does of LepA vacative should be given between 12 months and 28 months of age. The second does should be given 6 months after the first does. All children and ado escents over 24 months of age which have not seen vacatinated should also reactive 2 does of HepA vacation.

If your child has any medical conditions that put him of risk for infection or is traveling outside the United States, talk to your child's doctor about additional vaccines that he or she may need.





U.S. Department of Health and Human Services Centers for Disease Control and Prevention



For more information, call toll-free **1-800-CDC-INFO** (1-800-232-4636) or visit www.cdc.gov/vacines/parents

Original vaccine schedule document can be found at www.cdc.gov/vaccines/schedules

IMMUNIZATIONS

IMMUNIZATION SCHEDULE:	Follow national g AGE	uidelines VACCINE					
	Birth	BCG*	OPV-0	Hep B0			VITAMIN A
	6 weeks	DPT+HIB-1	OPV-1	Hep B1	RTV1	PCV1***	SUPPLEMENTATION
	10 weeks	DPT+HIB-2	OPV-2	Hep B2	RTV2	PCV2	Give every child a dose of Vitamin A every six months from the age of 6 months. Record the dose on the child's chart.
	14 weeks	DPT+HIB-3	OPV-3	Hep B3	RTV3	PCV3	ROUTINE WORM TREATMENT
	9 months	Measles **					Give every child mebendazole every 6 months from the age of one year. Record the dose on the
	18 months	DPT					child's card.

*Children who are HIV positive or unknown HIV status with symptoms consistent with HIV should not be vaccinated.

**Second dose of measles vaccine may be given at any opportunistic moment during periodic supplementary immunization activities as early as one month following the first dose.

***HIV-positive infants and pre-term neonates who have received 3 primary vaccine doses before 12 months of age may benefit from a booster dose in the second year of life.

Image: WHO/UNICEF IMCI



TABLE 2

Screening	Preferred Method	USPSTF recommendation	AAP recommendation
Autism	Modified Checklist for Autism in Toddlers	Insufficient evidence to screen children without clinical concerns (Grade I)9	Screen at 18- and 24-month visits (SOR C) $^{\mbox{\tiny 10}}$
Dental care	Fluoride supplementation and varnish	Oral fluoride supplementation if water is fluoride deficient (Grade B) ¹¹ Primary care physicians apply fluoride varnish to primary teeth beginning at tooth eruption (Grade B) ¹¹	Fluoride supplementation (SOR B) ¹² Apply fluoride varnish in primary care setting to primary teeth begin- ning at tooth eruption (SOR B) ¹²
Development	Ages and Stages Question- naire, Parents' Evaluation of Developmental Status, Parents' Evaluation of Developmental Status-Developmental Mile- stones, Survey of Well-Being of Young Children	Insufficient evidence to screen for speech and language delays without clinical concerns (Grade 1) ¹³	Screening at 9-, 18-, and 30-month visits (SOR C) ¹⁴
Dyslipidemia	Fasting lipid panel	Insufficient evidence (Grade I) ¹⁵	Risk-based screening at 2, 4, and 6 years of age (SOR C) ¹⁶
Hypertension	Measure blood pressure	Insufficient evidence (Grade I) ¹⁷	Screen annually beginning at 3 years of age (SOR C) ¹⁸
Iron deficiency	Complete blood count	Insufficient evidence (Grade I) ¹⁹	Screen at 12 months; consider sup- plements for preterm or exclusively breastfed newborns (SOR C) ³
Lead poisoning	Lead level	Insufficient evidence to recommend screening in children 1 to 5 years of age without increased risk (Grade I) ²⁰ Recommend against screening in chil- dren 1 to 5 years of age with average risk (Grade D) ²⁰	Screen high-risk individuals 6 months to 6 years of age (SOR C) ²¹
Maternal depression	Standardized depression screening (Patient Health Questionnaire-2 or Edinburgh Postnatal Depression Scale)	Screen postpartum women (Grade B) ²²	Screen at 1-, 2-, 4-, and 6-month visits (SOR B) ²³
Psychosocial assessments	No standardized tool; may con- sider Baby Pediatric Symptom Checklist, Preschool Pediatric Symptom Checklist, Strengths and Difficulties Questionnaire	Insufficient evidence to recommend screening for depression (Grade I) ²⁴	Screen for mental health disor- ders and perform psychosocial assessment at each well-child visit (SOR C) ²⁵
Vision	Visual acuity test	Insufficient evidence to screen before 3 years of age (Grade I) ²⁶ Screening once between 3 and 5 years of age (Grade B) ²⁶	Instrument-based screening at 12 to 24 months of age (SOR C) ²⁷ Screen annually beginning at 3 vears of age (SOR B) ²⁷

Screening Recommendations for Children from Birth to 6 Vears of Age

ROUTINE SCREENINGS



ROUTINE SCREENINGS

- If practicing in resource-limited areas, consider Vitamin A supplementation and deworming.
- Vitamin A deficiency (VAD) is a public health problem in many countries. It is the leading cause of preventable blindness in children. It also increases the risk of disease and death from severe infections particularly measles, diarrhea, and pneumonia.
- Routine supplementation of vitamin A every 6 months is recommended for all children aged 6–59 months.
 INMED

ROUTINE SCREENINGS

- Intestinal worms (helminths): transmitted through soil, are a serious public health problem in tropical climates where there are conditions of inadequate sanitation and hygiene.
- Worm infestations are associated with a significant loss of micronutrients in a child. Infestations negatively affect physical fitness and appetite which contributes to anemia, poor growth, and malnutrition.
- 3 types of worms are most prevalent and have the most damaging effect on the health of children. These are roundworms (Ascaris lumbricoides), hookworms (Ancylostoma duodenale and Necator americanus), and whipworms (Trichuris trichiura). NMED

ROUTINE SCREENINGS

Modicino	Give as a single dose every 6 months				
Medicine	0–1 year 1–2 years		2–5 years		
Albendazole (400 mg tablets)	None	½ tablet (200 mg)	1 tablet (400 mg)		
Mebendazole (500 mg tablet)	None	½ tablet (250 mg)	1 tablet (500 mg)		

- Consider chewable and good tasting options in children when deciding treatment.
- All children 12 months or older should have been given a dose of Mebendazole or Albendazole in the previous 6 months. INMED
- If not, give a dose as indicated above.

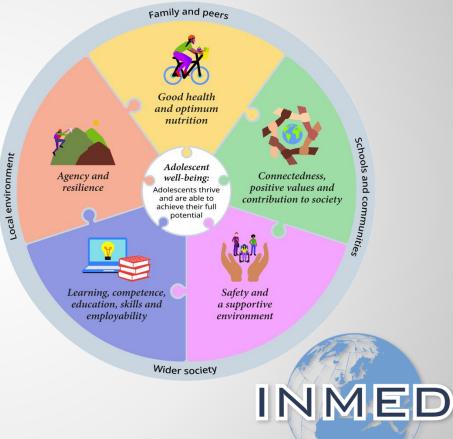
ANTICIPATORY GUIDANCE

- Safe Sleep
- Choking safety
- Car seat safety
- Accident-proof the home
 - Burns, Falls, Poisonings
- Proper safety equipment for sports and activities
- Pool and water safety
- Safety in and around cars



ANTICIPATORY GUIDANCE

- Seatbelts, distracted driving
- Drug, alcohol use
- Social Media and Screen Time
- Healthy Sexual behaviors
- Adolescent Sleep habits
- Mental Health/Depression
- Suicide
- Home access to weapons.



DETERMINANTS OF HEALTH

	Strengths and Protective Factors	Risk Factors
Parents	 Ability to access concrete support in times of need Social connections Knowledge of parenting and child development Personal resilience Ability to enhance social and emotional competence of children Ability to foster nurturing and attachment 	 Parental dysfunction, separation, or divorce Few social or community connections Limited knowledge of parenting Difficulty with nurturing or fostering attachment
Families	 Nurturing adults who sensitively and consistently respond to their children's needs Stable, predictable, and consistent physical, social, and emotional family environments Freedom from fear and protection from physical or psychological harm 	 Few adults who can provide a nurturing and responsive environment Family tobacco, alcohol, or drug use Abuse or neglect Unstable physical, social, and emotional family environments
Communities	 Safe neighborhoods Safe and high-quality schools Stable and safe housing Access to nutritious food Access to job opportunities and transportation Access to medical care, including behavioral health and wellness care 	 Poverty Food insecurity Housing insecurity Unsafe neighborhoods Unsafe and low-quality schools Limited employment and transportation opportunities Lack of access to medical care and social services

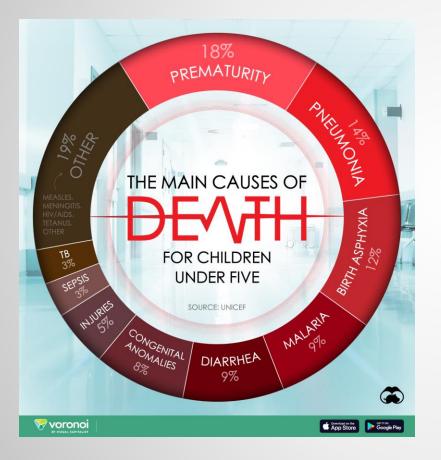


GLOBAL PRIMARY HEALTH CARE





THE WORLD NEEDS YOU



- Many of the leading causes of death for children in the world are preventable.
- We have a calling and commitment to do all we

can.

 Increases in primary care is one tool in our box to improve child health

INMED

THANK YOU

