Breastfeeding						
Re	ecommendations of	of WHO	Benefits of breastfeeding for mothers			
 Breastfeeding should begin within one hour of birth Exclusive breastfeeding until 6 months of age. You don't have to give your baby supplements except for vitamin D if the exposure to sunlight is not possible. Fact: Globally, less than 40% of infants under six months of age are exclusively breastfed! Introduce complimentary foods with continued breastfeeding up to 2 years. In addition: Breastfeeding should be "on demand" Breastfeeding should be avoided. Breastfeeding should not be decreased when starting on solids. 				 Helps the uterus to regress to its size before pregnancy (due to increased of oxytocin) Losing accumulated fat during pregnancy. Decrease risk of osteoporosis Decreased risk of breast cancer. Decreased risk of ovarian cancer. Decreased postpartum depression, T2DM Decrease incidence of high cholesterol, gallstone formation & rheumatoid arthritis Psychological (bonding, security) Method of birth control (98% protection in the first six months after birth) 		
Milk volume						
Milk volume is low on first 2 days postpartum, increases markedly on days 3 and 4, and then gradually increases to levels seen in full lactation. The most satisfactory stimulus to the secretion of human milk is regular & complete emptying of the breast; milk production is reduced when the secreted milk is not drained Breast milk composition						
Composition is dy	namic & varies wi	thin a feeding, a	diurna	lly, over lactation & between mothers & populations		
Macronutrients	Differs between preterm & termDiffers between preterm & termThe concentration of "It is adequate for b considered as a loaFatProvides up to 50% of Predominant in hum		term tion o for b <u>a load</u> 50% c	milk "preterm milk is higher in protein and fat" of protein in breast milk is lower than in animal milks. aby's growth / excess protein in animal milk is d for the baby" of caloric needs an milk, provides up to 40% caloric needs, essential		
Micronutrients	for development of Micronutrients that depend on maternal diet & body stores low r			CNS, enhances calcium & iron absorption mins A, B1, B2, B6, B12, D, iodine, iron and zinc. min D is low quantity in human milk, particularly with maternal exposure to sunshine		
	Regardless of maternal diet vitan			min K is low in human milk and thus, the American demy of Pediatrics recommends an injection of this nin to avoid hemorrhagic disease of the newborn		
	Immunoglobulins mainly (IgA)			Which coats the intestinal mucosa and prevents bacteria from entering the cells		
	White blood cells			Which can kill micro-organisms		
factors	Whey proteins (lysozyme/lactoferrin) Oligosaccharides			Prevent bacteria from attaching to mucosal surfaces		
	Bifidus factor "growth factor"			Present only in human milk required for establishing an acidic environment in the gut to inhibit growth of bacteria, fungi and parasites		
Colostrum "liquid gold" Vollowich sticky broast milk produced in the first 2, 2 Basic nutritional info on Breast milk						
 days after delivery. It is produced in me misr 2–3 days after delivery. It is produced in small amounts, but is all that an infant normally needs at this time <u>It is higher in:</u> Immunological components (IgA, lactoferrin, WBCs, developmental factors "epidermal growth factors") Minerals (Na / Cl / Mg) / fat-soluble vitamins (A, E, K) Proteins / WBCs / antibodies (especially IgA) <u>It is lower in:</u> Volume / carbohydrate (lactose) / fat / K / Ca 				ColostrumBreast milkCows milkCalories587065Protein3.7gm1.3gm3.4gmCarbohy5.3gm7.4gm4.8gmFats2.9gms4.2gms3.7gmColostrum-> Thin , yellow , Low on fat & carbs.Breast milk -> White,thin,watery & sweet.Foremilk-> Watery, low fat & high carbs.Hindmilk-> Creamier, thick, high fat		

Supe	erior health outcomes in breast	fed infant / Benefits of breastfeeding for babies				
Protection	 Gastrointestinal infections / respiratory infections 					
during	 Urinary infections / meningitis / sepsis 					
breastfeeding	 Atopic dermatitis / Food allergies / Necrotizing enterocolitis 					
	 Wheezing / Celiac disease / Growth faltering / Visual acuity 					
Protection atter	 Gastrointestinal infections / respiratory infections 					
weaning "early	- Wheezing / Celiac disease	e / Growth faltering / Visual acuity				
	- Cognition					
Protection later	 Cognition / personality Obstity / Types Land II diabates / Loukemia / lymphomas / Crebb's disease 					
Risk Reduction of	Childhood – Obesity / Types Tand II diabetes / Leukemia / Tymphomas / Cronn's disease					
Diabetes: Up to a 30% reduction in the incidence of type 1 DM is reported for infants who exclusively						
breastfed for at least 3 months.						
 Childhood leukaemia: A reduction of 20% in the risk of acute lymphocytic leukaemia and 15% in the 						
risk of acu	te myeloid leukaemia in infants	breastfed for 6 months or longer.				
– <u>Sudden In</u>	 Sudden Infant Death Syndrome (SIDS): A 36% reduction in risk of SIDS 					
Contraindications of broast fooding						
An HIV-infected m	nother can pass the infection	 Mothers living with HIV should breastfed for at least 12 				
to her infant durin	a preanancy, delivery and	months and may continue for up to 24 months or				
through breastfee	ding. However, antiretroviral	longer (like in normal mothers) while being full				
(ARV) drugs giver	to either the mother or HIV-	supported for ART adherence (strong recommendation)				
exposed infant re	duces the risk of transmission.	- ART reduces the risk of postnatal HIV transmission in the				
WHO recommend	ds that when HIV-infected	context of mixed feeding. Although exclusive				
mothers breastfee	ed, they should receive ARVs	breastfeeding is recommended, practising mixed				
and follow WHO guidance for infant feeding.		feeding is not a reason to stop breastfeeding in the				
		presence of ARV drugs				
Contraindications!		Conditions that are not contraindications to breastfeeding				
Untreated brucellosis		Mothers with				
	edfed IB (Use expressed milk)					
Active herpes simplex on her breast (use						
Mothers with F	1) 11) influenza temporarily be					
isolated until h	pecome afebrile					
Mothers who a	are receiving diagnostic or					
therapeutic ro	adioactive isotopes.					
🛛 Infant with ga	lactosaemia					

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