

## Special Formula in the Pharmaceutical Market

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**Background:** The effect of breast feeding on the growth and health, reducing mortality, disease, disability, and satisfy the emotional needs of the mother and the economy, it's no secret. Benefits and great divine blessing for mothers and infants repeatedly in articles, research, and Congress has placed different emphasis. Breast milk is the best and most complete food for infants. However, some babies for many reason, conditions are breastfeeding and why the formula they use.

**Methods:** After reviewing the latest articles about the nutritional needs of preterm neonates ,Text book study and review of literature related to specific diseases and the study of nutrition brochures and view available products on the market , medication article the study of preparing.

**Results:** When the physician had prescribed for any reason special formula , what is better than combining them with consideration of all aspects of the product to make choices. Infant with special diseases such as metabolic disorders ,PKU, MMA " should take the special formula , if this batch of infant milk other than breast milk , it's leading to damage in various tissues body , especially the spleen and brain deposits that can cause many problems it causes mental retardation and organ dysfunction. **Type of special formula:** Types of special formula can be based on the content of fat or sugar yields. There are four types of protein-based formula:

1. Cows milk based formula.
2. Soya based formula.
3. Hydrolyzed Cow's milk formula
4. Chemically defined formula.

1-Formula based on cow's milk have been prepared in breastfed infants are excluded .

2-The milk as LF( lactose free)called such as Isomil milk and Bebelac LF and Similac LF, AL110 also among this group. Generally , about 5-3 % of children with the best nutrition for infants, had cow`s milk protein allergy. If a child is deprived of breast milk can be forced to completely hydrolyzed protein formula that uses a special diet .. In this special formula sugar , sucrose and glucose polymers , therefore, the formula in Patients with Galactosemia and they lack the enzyme lactase can be used. Another indication for the use of this formula is cow's milk protein allergy (IgE mediated) but not in patients with Cow's milk protein induced enterocolitis Cell mediated disease is not recommended because about 50-30 % of patients with soybean protein can react .

3- formula contained hydrolyzed protein and lactose-free formula and because of protein and small peptide composed of amino acids than conventional milk are caused by immunological reactions. The fat in the milk mix of medium and long chain fatty acids. Thus, according to several categories: special formula with hydrolyzed protein and long-chain fatty acids such as aptamil pepti, Nutramigen and aptamil HA special formula with hydrolyzed protein and long-chain fatty acids and medium such as Alimentum, peptijunior and Progestimil.

4. Chemically defined formula: This formula contain protein consists of amino acids and no peptides. This is also contain lactose-free milk and sugar polymer of glucose ( corn syrup ). Fats in the mixture of medium and long chain fatty acids . It can be used in baby formula Neocate and Elecare cited. This formula also used for extreme sensitivity to the protein, in patients with severe malabsorption , obstruction of lymph channels and chylothorax. Poragen is an example of this formula . This formula contains no lactose, sucrose and glucose polymers , but the casein protein in cow's milk protein intolerance is not suitable . **Keywords:** Infant fourmula, Feeding , Special.

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