

# Newborn Management: Colostrum

## Maternal Passive Immunity

Maternal passive immunity (MPI) is an acquired immunity to help newborn to protect against infectious diseases. MPI is transferred to a fetus through placenta during pregnancy. Only 10% of the antibodies pass through placenta in cats and 4-6% in dogs. Thus it is essential for all puppies and kittens to consume sufficient colostrum during this period of time. MPI is also provided through the transfer of Immunoglobulin (Ig) antibodies found in colostrum within 24 hours after birth.



## What is Colostrum?

Colostrum (also known as first milk) is a form of milk produced by the mammary glands in late pregnancy and few days after giving birth. It provides first food for newborns after parturition with all necessary nutrients and passive immunity (antibodies). The composition of colostrum is similar to that of blood and differs significantly from milk. Colostrum contains both nutrients (proteins, fats, lactose, essential fatty acids and amino acids) and non-nutrients (biologically active substances). However, the quality of colostrum largely depends on the immune status of the mother. Colostrum is also important for hypoglycemia (low blood sugar) prevention, hypothermia (low body temperature) prevention, and digestion stimulation.

## Colostrum VS Milk

Compared to milk, colostrum contains higher levels of proteins- lactalbumins, lactoglobulins and immunoglobulins (IgG, IgM, IgA), peptides (lactoferrin, transferrin), hormones (insulin, prolactin etc), growth factors, enzymes, vitamins (A, B1, B2, C) and so on. The contents of lactose and casein in colostrum are lower than those in milk. This is important in newborn diarrhea associated with lactose intolerance. It is necessary for the newborns to consume the colostrum ASAP as the concentration of immunoglobulin decreases rapidly over time and absorption of immunoglobulin through small intestines is at its maximum 12 hours after birth. Thus, the more intakes of the colostrum, the less mortality occurred.

## What is Coloboost?

**Coloboost** is a colostrum substitute which will bring a quick and efficient local immunity to newborns. It guarantees to have the richest colostrums, with no colostrum transmission of bacteria, worms and toxins from mother to newborns as in maternal colostrum. It also contains of dextrose which provide immediate energy supply, preventing hypoglycemia. Prebiotic and acid lactoserum are helpful for intestinal flora to improve digestion.

**Coloboost** Pet is useful in cases of: first parturition, weak or old mother, insufficient quantity of colostrum, large number of newborns per litter, mastitis, history of neonatal mortality and weak puppies or kittens with diminished sucking reflex, small size breed, long and difficult parturition and etc.



### Direction for use:

Dilute 4g of **Coloboost** Pet (=one spoon supplied in the box) in 60ml feeding bottle, duly filled with some lukewarm water.

First dose: as soon as possible after birth

Second dose: 8 hours after birth

Third dose: 24 hours after birth

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