

## A Case Report on Therapeutic Approach in Cases of Anasarca in Neonates Dogs

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**Abstract :** Anasarca is generalized congenital edema that is often lethal. The condition is transmitted hereditarily and is autosomal dominant, with a racial predisposition in French Bulldogs and English Bulldogs. This study aims at reporting a case of anasarca treatment in neonates. The fetuses of a one year and six months old, primiparous English Bulldog mother were diagnosed with anasarca during an ultrasound examination performed at the 55th day of pregnancy and, therefore, an elective cesarean section was scheduled to prevent fetal dystocia. At birth, all puppies presented anasarca, and one of the six was stillborn. The newborns presented cyanosis, dyspnea, bradycardia, absent reflexes, low vitality scores (3/10), and hypothermia (< 32°C). The weight of the puppies at the time of birth varied between 347 and 373 grams, about 100 grams above the average weight estimated for the breed. Immediate neonatal care was applied with oxygen therapy via a mask, aminophylline (0.2 ml/100 g/PV/sublingual), and slow heating. After 10 minutes, there was a significant improvement in the neonatal parameters. The anasarca was treated with the drug furosemide, administered subcutaneously, at a dose of 0.2 mg per 100 grams of weight, every three hours. The stimulation for urination of newborns was performed every 30 minutes, and weight loss was monitored every 30 minutes. Five grams of potassium chloride were administered orally for every 30 grams of weight loss to counterbalance the loss of potassium caused by the diuretic medication. After 15 hours, the neonates reached the ideal weight for the breed, around 209 to 230 grams. In total, four neonates received five doses of furosemide, while one received six doses. The puppies are currently ten months old, healthy and neutered. Anasarca should not be ignored and is considered potentially lethal and an indication for euthanasia in all cases. Early intervention is of utmost importance for the survival of these patients.

**Keywords :** Walrus syndrome, congenital edema, water puppy syndrome, puppies

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