

BRACHYCEPHALIC BREEDS....Dogs with special faces.

Most people are not familiar with the term "**Brachycephalic**", but if you own a Pug or any one of the other breeds with "pushed in" or "flat" faces, you should become familiar with this word and what it means for these breeds and their owners. The word is of Greek origin "Brachy", meaning short and "cephalic" meaning head.

In producing this cosmetic appearance, we have compromised these animals in many important ways and you, as an owner, need to be aware of the special needs of your pet.

The Respiratory System

Brachycephalic breeds are characterised by "**brachycephalic respiratory syndrome**," which affects the different areas of the respiratory tract. Fortunately, most dogs do not suffer from all aspects of the syndrome but you should be aware of which your particular pet may have.

Stenotic Nares –This is a fancy name for narrowed nostrils. The brachycephalic dog begins by having very small nasal openings for breathing. If this is severe, surgical correction may be possible.

Elongated Soft Palate – It is difficult to fit the soft tissues of the canine mouth and throat into the brachycephalic's short face. As a result, the soft palate which separates nasal passage from oral cavity flaps loosely down into the throat creating snorting sounds. Virtually all brachycephalics suffer from this but, except in Bulldogs, actual respiratory distress is rare. Excess barking or panting may lead to swelling in the throat which can, in turn, lead to trouble.

Tracheal Stenosis – The brachycephalic's windpipe may be dangerously narrowed in places. This condition creates anaesthetic risk and should be ruled out by chest x-rays prior to any surgical procedures if there is a concern.

Heat Stress - Because of all these upper respiratory obstructions, the brachycephalic dog is an inefficient panter. A dog with a more conventional face and throat is able to pass air quickly over the tongue through panting. Saliva evaporates from the tongue as air is passed across and the blood circulating through the tongue is efficiently cooled and circulated back to the rest of the body.

In the brachycephalic dog, so much extra work is required to move the same amount of air that the airways become inflamed and swollen. This leads to a more severe obstruction, distress, and further over heating.

BRACHYCEPHALIC DOGS ARE THE MOST LIKELY CANDIDATES FOR HEAT STROKE

Altogether, the upper airways of the brachycephalic dog compromises his or her ability to take in air. Under normal conditions the compromise is not great enough to cause a problem, however, an owner should take care not to let the dog become grossly overweight or get too hot in the summer months. Be aware of what degree of snorting and spluttering is usual for your individual pet plus, should your pet require general anaesthesia or sedation, your vet may want to take extra precautions or take x-rays prior to assess the severity of the syndrome. Anaesthetic risk is higher than usual in these breeds, though under most circumstances the necessary extra precautions are readily managed by most animal hospitals.

Eye Problems

With most of the nasal bones compacted, brachycephalic dogs tend to have trouble with the way their eyes seat in their heads.

First, recognise the prominence of the eyes on these dogs. The bony eye sockets are very shallow. This means that any blow to the back of the head, even a fairly minor one, can cause an eye to pop from its socket and require surgical replacement. This can happen also with too much pulling against the lead if the pet is wearing a collar. You may wish to consider using a harness for your pet.

Sometimes, the eyes are so prominent that the lids cannot close all the way over the eyes. This will lead to irritation and drying of the centre of the eye unless surgical correction is performed. If you cannot tell by watching your pet blink, watch as your pet sleeps. Dogs who sleep without closing their eyes all the way could do with surgical correction.

Eyelid problems are common in these breeds. Look for persistent wetness around the eyes. In some dogs, the shape of the eyelids prevents normal tear drainage and there is an overflow. This problem cannot be corrected surgically and it is not uncomfortable for the pet, however, there is a more serious condition which looks similar. This second condition involves the rolling inward of the eyelids such that the lashes rub on the eye. Surgery may be needed to correct this problem.

Chronic irritation will show as a pigmented area on the eye surface, especially on the side nearest the nose. This is hard to see without a bright light but if it is noted, a search for the cause is warranted. Depending on the location of the pigment, surgery may be recommended.

(It is important that proper diagnosis & treatment be made & carried out by a specialist. Without treatment the pigment can gradually cover much of the eye surface & the dog can have marked loss of vision. The irritation can also be painful for your pet & in severe cases the eye may ulcerate.)

Other Concerns

The normal dog has 42 teeth in its mouth. The brachycephalic dog also has 42 teeth but a lot less space to fit them in. This means that the teeth will be crowded and growing in at odd angles which, in turn, traps food debris and leads to periodontal disease at a far younger age than in non-brachycephalics. The earlier you begin using home dental care products, the longer you will be able to postpone full dentistry under general anaesthesia.

Skin fold infections are common amid the facial folds of the brachycephalic breeds. Be sure to examine these areas regularly for redness.

The broad headed nature of these breeds makes reproduction a tricky matter as Caesarean section is frequently needed.

Difficult labour is common and, as surgical assistance is often necessary, it is important not to breed females with tracheal stenosis (see above). Breeding is best left to the experts.

Altogether, the brachycephalic breeds show plenty of personality and intelligence just as all dogs do but because of their special needs, they require some extra knowledge of their owners. If you have any questions about your brachycephalic dog, please do not hesitate to contact a breed club for your particular breed, or speak with a veterinarian who has experience with these special dogs.

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