

# **Chlorambucil (Leukeran®)**

It is important to remember that even if your pet's cancer may not be curable, your pet can enjoy an excellent quality of life during chemotherapy. Chemotherapy medications have the potential to produce side effects. However, due to the less aggressive approach (for example, lower dosages), pets usually tolerate chemotherapy far better than humans.

Chlorambucil is an orally administered chemotherapy medication that can be used to treat a variety cancer in pets including chronic lymphocytic leukaemia, small cell or low-grade lymphoma, multiple myelom. Ladder cancer, mast cell tumours and soft tissue sarcomas.

Chlorambucil is an attractive treatment option for many owners because they can administ a the drug cally to their dogs at home, the risk of chemotherapy toxicity is low (around 5%), and the cost is relative to appared with other treatment options. If your pet experiences any signs of illness, lease ontact your veterinarian.

Typically, there is no risk to the owner/s or other pets in the household. However, chemotherapy drugs may potentially cause cancer (carcinogenic), may cause mutation in DN (cautage is) and may cause foetal abnormalities (teratogenic). Traces of chemotherapy may be present in pass' body wastes (particularly urine and/or faeces) for up to 72 hours after administration. Therefore, it is fucial for pet owners to take some necessary precautions to prevent exposure during this prior (particularly when administering chemotherapy, and when handling bodily wastes), such as:

- 1. Avoid direct contact with chemotherapy and alway his possible gloves when handling chemotherapy medications.
- 2. Always wear disposable gloves when handling and faeces, smit or blood.
- 3. People with a weak immune system, hildred women who are or may be pregnant or breastfeeding, should avoid handled any dispensed chemotherapy medications and contact with the pet's urite, the central or blood for up to 72 hours after administration.
- 4. Keep these personnel, and other personnel away from areas where accidents have occurred.
- 5. Any accidents in the house would be cleaned up promptly with dilute bleach (preferred) or detergent solution, then disposed to in a character double bag in the rubbish bin. Alternatively, dispose of urine and faeces in the toilet; but the the literand double flush.
- 6. Urine-soaked or solled items how a be discarded rather than washed. If washed, wash separately from other laundry, a pally twick and bleached.
- 7. If accidental contact a with urine, faeces, vomit, or blood, wash skin thoroughly with warm soapy water is a reliminant five minutes.

Chlorambucileis add to stee a best on an *empty stomach*. However, if that is not possible, then it can be given with a small a stand (e.g. the tablet can be wrapped in cheese or given in a small meatball of food).

Chlorat and I should be stored in the original container in the fridge, away from food, and kept out of reach of children and second or c

lease refer hand out entitled 'Handing Chemotherapy Medications at Home' for crucial handling and a least tide instructions, as well as handling of pet's bodily wastes.

#### Side effects that may occur:

#### **Lethargy**

- Lethargy is where your pet has lower energy levels or is tired or sleepy and is uncommon.
- Your pet may be reluctant to go for his or her usual routine walk.

• If lethargy occurs, please allow your pet to rest as much as possible. If the lethargy worsens or does not resolve within 3 to 5 days, please contact your veterinarian.

#### **Gastrointestinal signs**

- Loss of appetite, nausea, vomiting and diarrhoea are uncommon.
- If any gastrointestinal signs occur, please stop chlorambucil and contact your veterinarian.
- In most circumstances, the side effects will abate within 24-48 hours after discontinuing chlorambucil.
- It is rare for pets to require supportive medications or hospitalisation while receiving chlorambucil.

### Low white blood cell count

- Your pet's white cell counts and platelet counts may drop after receiving chlorambucil and occurantly
  may never recover. However, it is uncommon and usually occurs after a prolonged court of chlorately
  (e.g. six months later).
- This is not a problem unless the white cell counts drop too critically low (i.e. neutro, il counts les than 1.0).
- When this occurs, your pet is at a slightly increased risk of sepsis and infection. Your set is clinically well, your veterinarian will often prescribe prophylactic antibiotics to revent this side effect from occurring and ask you to stop chlorambucil temporarily. You will be asked to monitor your pet closely for a short period. Subsequent chlorambucil treatment dosages or treatment is ervals will likely be reduced to prevent the white cell counts from dropping too critically low
- During this period, if your pet has a temperature higher than (2.2°C) at feve, or shows any signs of illness (such as lethargy, vomiting, going off food or diarrhaea), clease a usider this an emergency and contact your veterinarian immediately. Your pet may have separated a infection that will require immediate management with intravenous fluid therapy of the d-sp. Aum antibiotics in the hospital. Sepsis and/or infection is a potentially life-threatening side that a cannot be managed with supportive home medications.
- The most common source of sepsis and/or infection from the set's own gastrointestinal tract, therefore please avoid feeding your pet raw food during memoth capy.
- If your pet has a low white cell count, your vete parian ay ask you to temporarily or permanently stop chlorambucil and avoid dog parks and it sees to be sets with unknown vaccination status for a short period.
- If your pet has a low platelet count, your eteritorian may ask you to temporarily or permanently stop chlorambucil and avoid vigorous exercise of cereous activity for a short period.

#### Liver damage

- It is sporadic to see liver dama, in it, s, and it has not been reported in cats.
- If liver damage occurrent is usual, reversible. Chlorambucil will be stopped, and your pet may be administered in a contract of a short period.

## <u>Fur loss</u>

- Pets to be not use their fur during treatment. However, pets that have fur clipped during chemot use their fur during treatment. However, pets that have fur clipped during chemot use the last not regrow or be slower to grow back until chemotherapy has finished.
- tain bloods such as Terriers and Poodles) may need regular grooming as they may lose some body to a vortex perience some thinning of their coat.
- Pe some of their whiskas and/or eyelashes.
- Owners may comment that their pet appears "aged" during therapy. This is usually due to thinning of the control to the description of the skin and/or fur.
  - A r chemotherapy has finished, fur usually grows back within a few months.
  - ccasionally there may be a permanent texture and/or colour change.
  - However, none of the above changes should impact your pet's quality of life.

#### Other

- Neurological signs, skin reactions and interstitial lung disease are extremely rare in people and has not been reported to occur in dogs or cats. However, seizures have been reported to occur in one cat and suspected to occur in one dog.
- If neurological signs or a seizure occurs, please stop chlorambucil and contact your veterinarian immediately.