

## DIRECTIONS FOR USE

### POWDER

KG	
Up to 10 kg	½ scoop daily
11-20 kg	1 scoop daily
21-30 kg	1½ scoops daily
31-45 kg	2 scoops daily

### POWDER XL

KG	
20-30 kg	½ scoop daily
31-50 kg	1 scoop daily
Over 50 kg	1½ scoops daily

### LIQUID

KG	
Up to 5 kg	½ pump
6-10 kg	1 pump
11-20 kg	2 pumps
21-30 kg	3 pumps
31-45 kg	4 pumps
Over 45 kg	6 pumps

### CHEWS

KG	
Up to 5 kg	¼ chew daily
6-10 kg	½ chew daily
11-20 kg	1 chew daily
21-30 kg	1½ chews daily
31-45 kg	2 chews daily
Over 45 kg	3 chews daily

### CAT GEL

KG	
Up to 5 kg	½ pump
6-10 kg	1 pump



Initial 3 weeks of treatment: double the amount of daily quantity to be given.

**GCS Joint Care Advanced** has been developed to offer your pet the benefits of 6 key ingredients in a tasty and convenient range. Given over the food, the chicken flavoured powders and liquid are a tasty addition to any meal, or a beef flavoured chew that can replace those unhealthy treats. Cats can enjoy a chicken flavoured gel either on the food or smeared onto their paw to groom off.

## 6 KEY INGREDIENTS

ASSISTS IN REDUCING PAIN AND INFLAMMATION<sup>1</sup>



### Omega-3 Fish Oil

Omega-3 fatty acids have been shown to assist in reducing inflammation and related pain in damaged joints.<sup>1,2</sup>



### Green Lipped Mussel Extract

Has been shown to assist in reducing inflammation, protect against oxidative damage and to help protect and repair damaged cartilage.<sup>2</sup>



### MSM

MSM acts as an antioxidant within the joint and reduces both joint and muscle pain when given as a pre-treatment before strenuous endurance exercises.<sup>3</sup>

ASSISTS IN REPAIRING AND REGENERATING THE JOINTS<sup>1</sup>



### Collagen Type II

Collagen Type II stimulates the damaged cartilage to reproduce more collagen, a key component of healthy joints.<sup>1,4</sup>



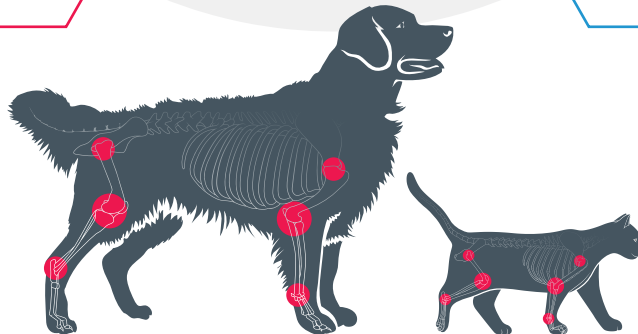
### Chondroitin Sulphate (< 10 kDa)

Chondroitin Sulphate is an important natural component of cartilage and synovial fluid and has been shown to promote active cartilage regeneration, inhibit the breakdown of cartilage and assist in reducing pain.<sup>1,2</sup>



### Glucosamine

Glucosamine has been shown to prevent the breakdown of cartilage, help to repair and regenerate damaged cartilage, and was shown to improve joint mobility and function.<sup>1</sup>



GCS

# JOINT CARE

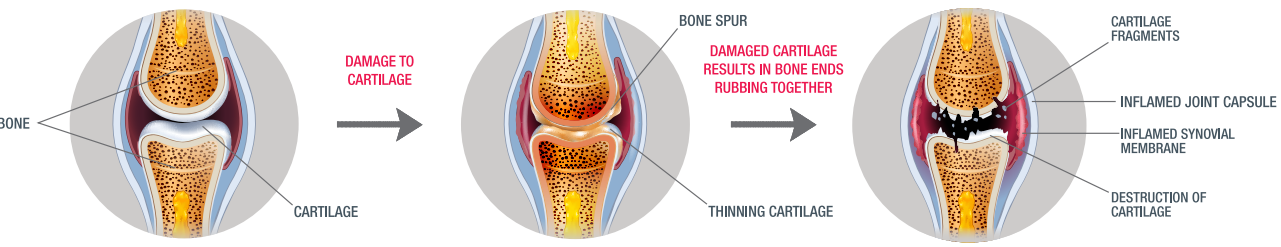
• A D V A N C E D •

ALL YOU NEED TO KNOW



# WHAT IS OSTEOARTHRITIS?

- > Also known as Degenerative Joint Disease (DJD).
- > A common problem affecting dogs with hip and elbow dysplasia and older dogs with general ageing and stiffness of the joints.
- > Progressive degenerative condition (gets worse over time) that affects the joints.
- > Leads to pain, inflammation and discomfort.



# SIGNS & SYMPTOMS

- > Joint stiffness when getting up.
- > Activity impaired like difficulty getting:
  - in and out of car.
  - up and down stairs.
  - on and off the bed.
- > Stiff after walks.
- > Limping, pain and discomfort.



# SIGNS & SYMPTOMS

# GOALS OF TREATMENT

- > Slow the progression of the disease.
- > Reduce the severity of signs and symptoms.
- > Control pain and discomfort.



### Weight management<sup>1</sup>

Weight loss is the cornerstone of osteoarthritis management. Less weight means less pressure on the joints.

Regular short walks or non-weight bearing exercise such as hydrotherapy will also help to manage weight.

### Joint repair and protection

Collagen Type II, Glucosamine and Chondroitin aid in the repair of damaged cartilage in the joint.<sup>1</sup>

### Management of pain & inflammation

Your vet may prescribe anti-inflammatories to help manage the pain.

Chondroprotectives can assist in reducing pain and inflammation within the joint.<sup>1</sup>

# TREATMENT

# GCS JOINT CARE • ADVANCED •



ACTIVES	POWDER	POWDER XL	LIQUID	CHEWS	CAT GEL
	mg per 5 g	mg per 5 g	mg per 5 ml	mg per chew	mg per 2 ml
Glucosamine HCl	600	1350	600	600	300
Chondroitin Sulphate (< 10 kDa)	240	500	240	240	110
Collagen Type II	30	40	30	30	12
Omega-3 fish oil micro-encapsulated	250	250	250	250	100
Green Lipped Mussel Extract	200	200	200	200	80
MSM	500	1000	250	250	100

**REGISTRATION HOLDER**

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REFERENCES: 1. Jerosch, J., 2011. Effects of glucosamine and chondroitin sulfate on cartilage metabolism in OA: outlook on other nutrient partners especially omega-3 fatty acids. *International Journal of Rheumatology*, 11. doi:10.1155/2011/969012. 2. Bierer, T.L. & Bui, L.M., 2002. Improvement of arthritic signs in dogs fed green-lipped mussel (*Perma canaliculus*). *The Journal of nutrition*, 132:1634S-1636. 3. Butawan, M., Benjamin, R.L. & Bloomer, R.J., 2017. Methylsulfonylmethane: Applications and safety of a novel dietary supplement. *Nutrients*, 9:290. doi:10.3390/nu903290. 4. Ossoer, S. & Seifert, J., 2003. Stimulation of type II collagen biosynthesis and secretion in bovine chondrocytes cultured with degraded collagen. *Cell and Tissue Research*, 311:393-399.