# Canine osteoarthritis and the anti-inflammatory and chondroprotective effect of omega-3 fatty acids

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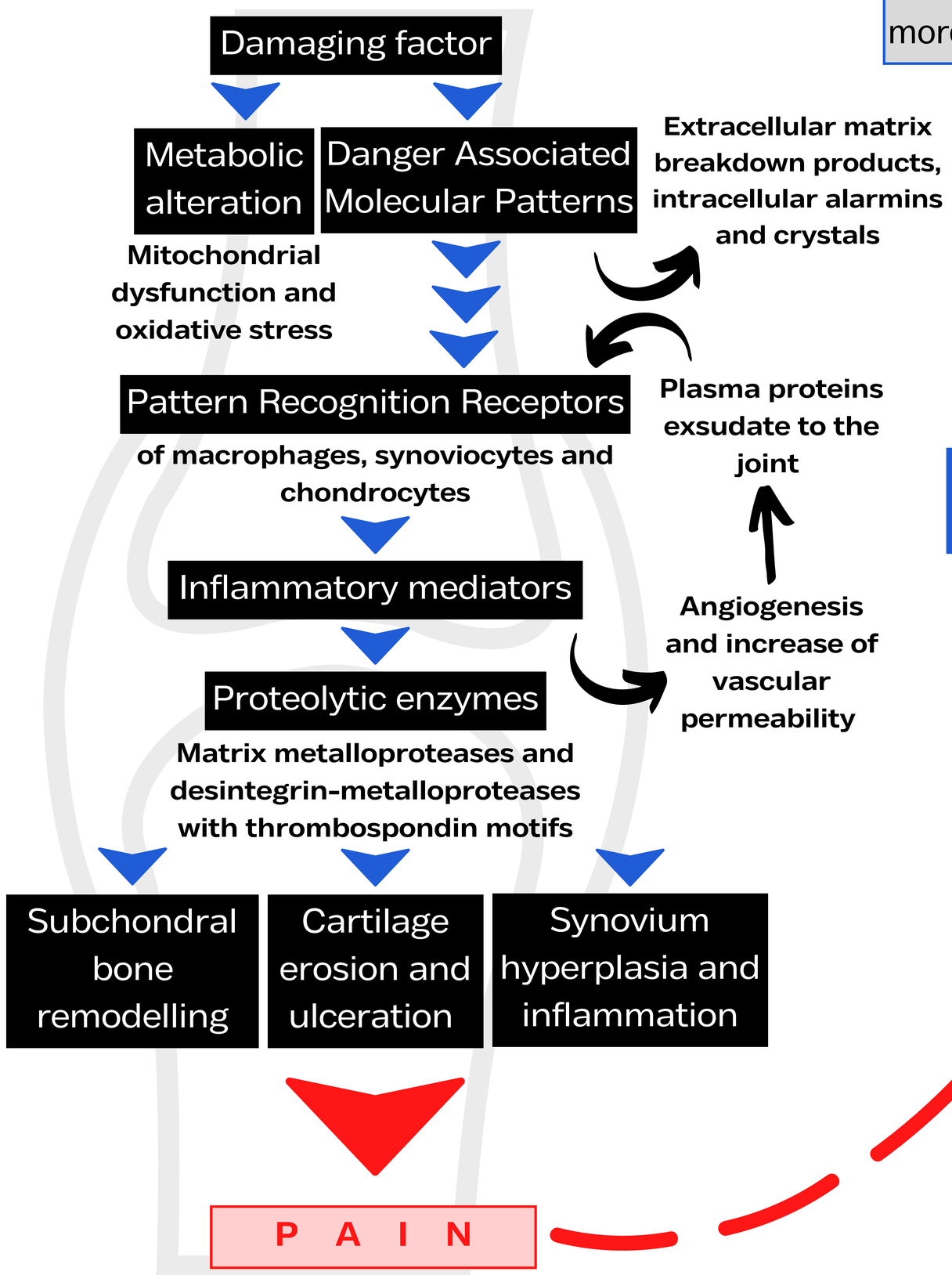
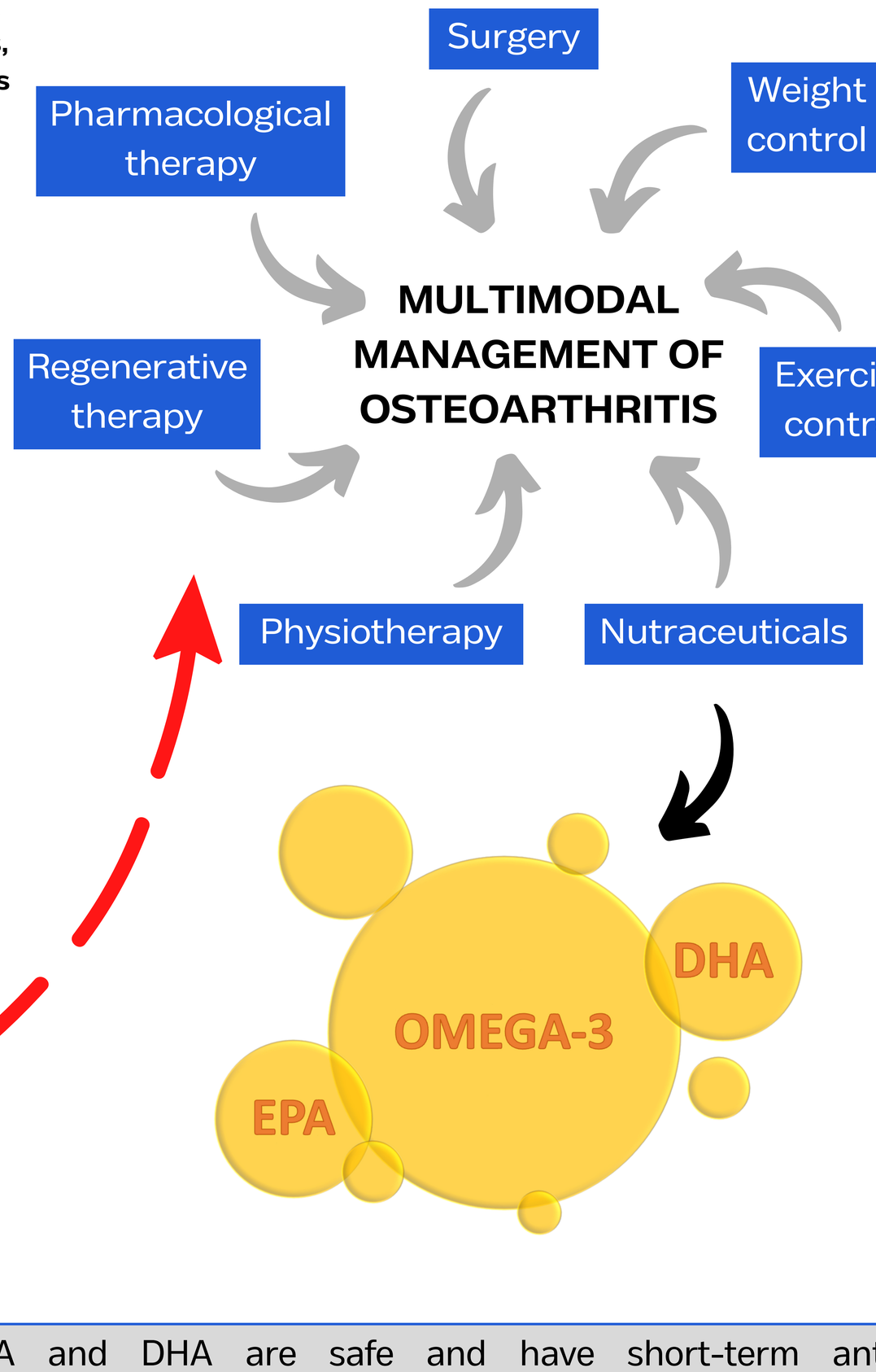
## INTRODUCTION

Canine osteoarthritis (OA) is a joint degenerative disease characterized by the articular cartilage degradation, synovium inflammation and subchondral bone remodeling. Dogs with this condition suffer from pain and loss of joint function, which negatively affects their quality of life.

## OBJECTIVES

Evidence leads to multimodal management of OA in order to achieve the most appropriate therapy for each patient by combining pharmacological and non-pharmacological elements. Therefore, the objective of this project is to address the various elements that are part of the multimodal treatment of canine OA, and then to discuss in more detail the therapeutic effect of omega-3 fatty acids.




## CONCLUSIONS

Canine OA is a multifactorial disease with a complex pathogenesis. Consequently, the multimodal treatment is the key to its management, which requires the dedication of owners and veterinarians.

EPA and DHA are safe and have short-term anti-inflammatory and chondroprotective effects that are reflected in an improved symptomatology and in a slower disease progression.

In the future, more studies are needed to evaluate the long-term effects of EPA and DHA, and protocols need to be standardized to ensure reliable and reproducible results and to be able to compare different clinical trials.

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