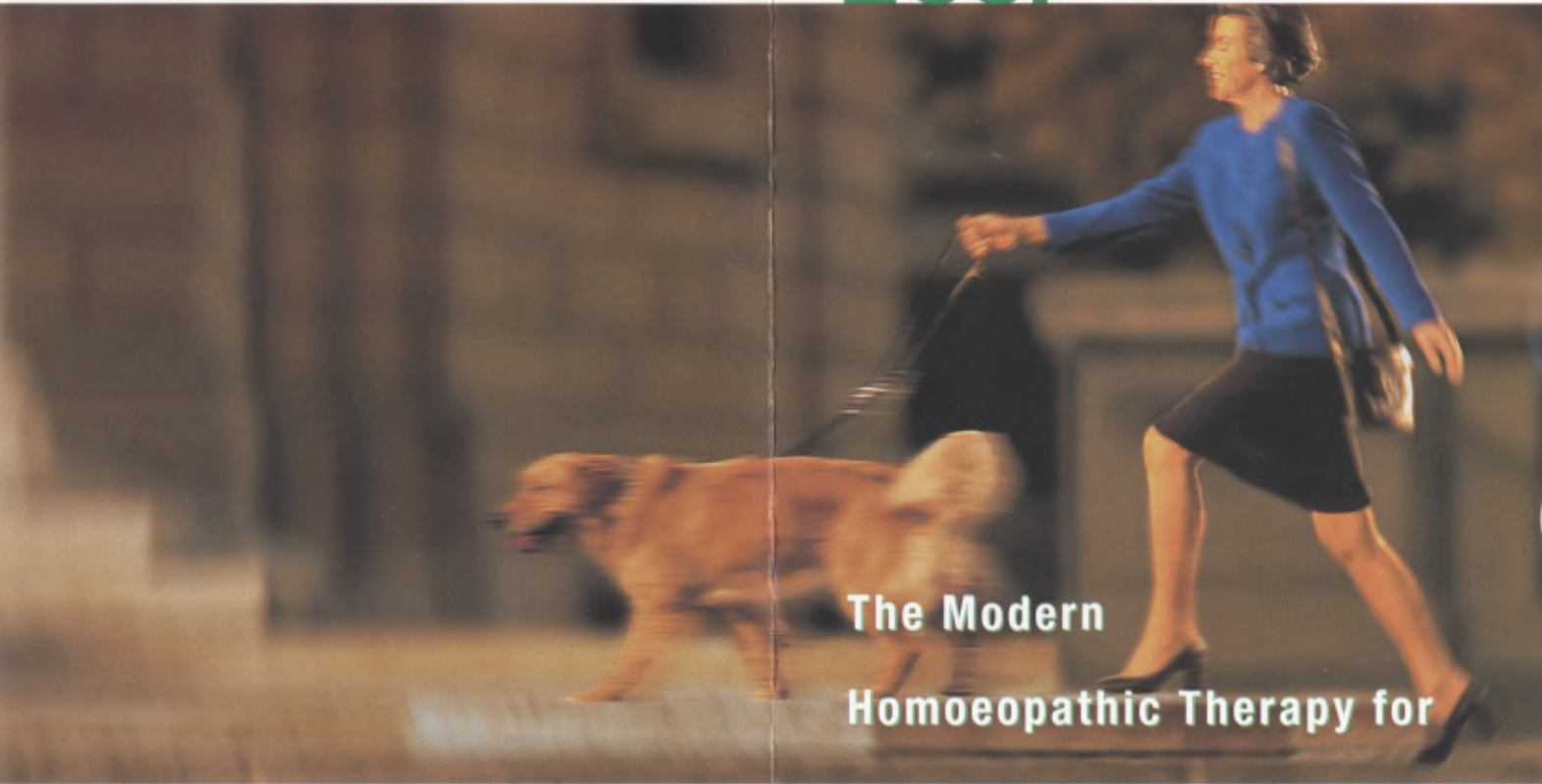


# Zeel®



The Modern  
Homoeopathic Therapy for

**Arthritic Degeneration**

**Arthritic Stiffness**

**Arthritic Pain**



**-Heel**

**-Heel**

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[www.heel.com](http://www.heel.com)

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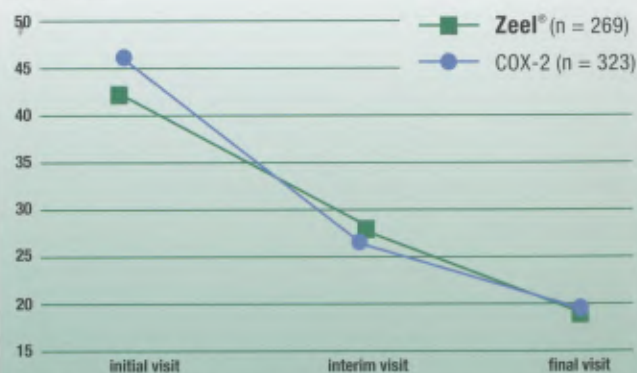
# Zeel®

## As Effective as COX-2 Inhibitors

In a prospective, reference-controlled multicentre cohort study of 592 patients suffering from mild to moderate osteoarthritis of the knee, the efficacy of Zeel tablets was tested in comparison to the COX-2 inhibitors Celebrex and Vioxx. In global assessments of tolerability, more than 90 percent of the patients in the Zeel group but only 74 percent of the COX-2 group reported "very good" tolerability. Parameters such as stiffness, pain and functionality of the knee were measured using the validated WOMAC Osteoarthritis Index. Overall results of the study revealed that with regard to efficacy, treatment with Zeel tablets is equivalent to therapy with COX-2 inhibitors.<sup>11</sup>

### WOMAC Arthritis Index – Global

Global Index\*



\* 0 = no occurrence of symptoms / 100 = severe occurrence of symptoms

Zeel vs NSAIDs	Zeel	Diclofenac	COX-2 inhibitors
Effectively reduces arthritis pain	yes	yes	yes
Effectively restores joint flexibility	yes	yes	yes
Observed adverse reactions:			
• G.I. toxicity	no	yes	yes
• platelet aggregation inhibition	no	yes	no
• sodium and fluid retention	no	yes	no
• cardiovascular risks	no	no	yes

#### References:

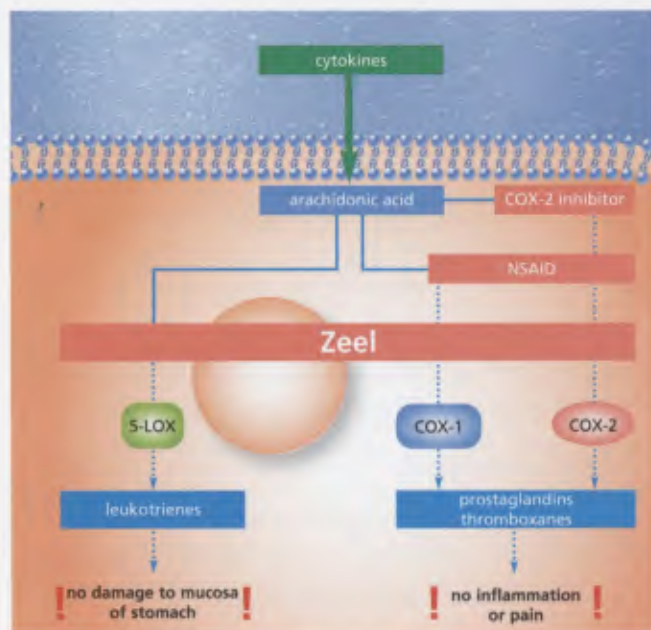
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# Modulation of COX/LOX Enzymes

To clarify the potential anti-inflammatory actions of Zeel and its constituents, their effects on 5-lipoxygenase (5-LOX) and cyclooxygenase 1 and 2 (COX-1 and COX-2) were studied *in vitro*.

A reconstituted Zeel comp. N combination and its constituent mother tinctures of Arnica montana, Sanguinaria canadensis and Rhus toxicodendron (*Toxicodendron quercifolium*) revealed distinct modulatory effects on COX-1, COX-2, and 5-LOX activity. Another constituent, *Solanum dulcamara*, revealed a modulatory effect on the COX enzymes.<sup>12)</sup>

These results further increase our understanding of Zeel's efficacy, which has already been documented by many clinical, *in vivo*, and *in vitro* studies.<sup>1-11)</sup>



## Zeel® T

Tablets (9757) · Injection solution (8705) · Ointment (9588)

**Compositions:** Tablets: 1 tablet cont.: Cartilago suis D4 0.3 mg, Funiculus umbilicalis suis D4 0.3 mg, Embryo suis D4 0.3 mg, Placenta suis D4 0.3 mg, Toxicodendron quercifolium D2 0.54 mg, Arnica montana D1 0.6 mg, Solanum dulcamara D2 0.15 mg, Symphytum officinale D6 0.15 mg, Sulfur D6 0.54 mg, Nadicum D6 0.03 mg, Coenzymum A D6 0.03 mg, Natrium diethylalacetatum D6 0.03 mg, Acidum alpha-liponicum D6 0.03 mg, Acidum silicicum D6 3 mg. *Injection solution:* 1 ampoule of 2.0 ml (= 2.0 g) contains: Cartilago suis D6 2 mg, Funiculus umbilicalis suis D6 2 mg, Embryo suis D6 2 mg, Placenta suis D6 2 mg, Solanum dulcamara D3 10 mg, Symphytum officinale D6 10 mg, Nadicum D8 2 mg, Coenzymum A D8 2 mg, Sanguinaria canadensis D4 3 mg, Natrium diethylalacetatum D8 2 mg, Acidum alpha-liponicum D8 2 mg, Toxicodendron quercifolium D2 10 mg, Arnica montana D4 200 mg, Sulfur D6 3.6 mg. *Ointment:* 100 g cont.: Cartilago suis D2, Funiculus umbilicalis suis D2, Embryo suis D2, Placenta suis D2 0.001g each; Rhus toxicodendron D2 0.270 g; Arnica montana D2 0.3 g; Solanum dulcamara D2 0.075 g; Symphytum officinale D8 0.75 g; Sanguinaria canadensis D2 0.225 g; Sulfur D6 0.27 g; Nadicum D6, Coenzymum A D6, Acidum alpha-liponicum D6, Natrium diethylalacetatum D6 0.01 g each; Acidum silicicum D6 1.0 g. *Ointment base:* Hydrophilic ointment (DAB 10) containing emulsifying cetylstearyl alcohol, ethanol, purified water, liquid paraffin, soft white paraffin, preserved with 12.9 vol.-% ethanol. **Indications:** Arthrosis (in particular gonarthrosis); polyarthrosis, spondylarthrosis, scapulohumeral periarthritis. **Contraindications:** Tablets, *injection solution:* Hypersensitivity to botanicals of the Compositae family or the genus Rhus of the Anacardiaceae family. Zeel T should be used only in consultation with a physician in cases of active or prior liver disease and/or if used in combination with hepatotoxic drugs. Because it contains bloodroot (*Sanguinaria canadensis*), Zeel T should not be used during pregnancy and lactation. *Ointment:* Hypersensitivity to arnica, the genus Rhus of the Anacardiaceae family and constituents of the ointment base. **Side effects:** Tablets: During treatment with medications containing sanguinarin, elevated levels of liver enzymes (transaminases) and bilirubin have been observed in individual cases, to the point of drug-induced hepatitis and jaundice. These symptoms abated when treatment was discontinued. In very rare cases, gastrointestinal symptoms or skin reactions may appear as late as several days after using the medication. *Injection solution:* In isolated cases, hypersensitivity reactions (up to and including anaphylactic shock) are possible in individuals with known hypersensitivity to composites (arnica). Temporary reddening, swelling, and pain may occur at the injection site. During treatment with medications containing sanguinarin, elevated levels of liver enzymes (transaminases) and bilirubin have been observed in individual cases, to the point of drug-induced hepatitis and jaundice. These symptoms abated when treatment was discontinued. In very rare cases, gastrointestinal symptoms or skin reactions may appear as late as several days after using the medication. In rare cases, allergic skin reactions may occur. **Interactions with other medication:** None known. **Dosage:** Tablets: In general, 1 tablet to be dissolved in the mouth 3-5 times daily. *Injection solution:* In general twice weekly 1 ampoule i.m., s.c., i.d., intra-, periarticularly, or if necessary, paravertebrally. In the case of large joints, 2 ampoules on each occasion. *Ointment:* In general, apply to the affected areas in the morning and evening, e.g. rubbing in gently a 4-5 cm long ribbon of ointment at the area of the knee-joint. **Package sizes:** Tablets: Packs containing 50 and 250 tablets. *Injection solution:* Packs containing 10 and 100 ampoules of 2.0 ml each. *Ointment:* Tubes containing 50 and 100 g of ointment.

Since this product information is not specific to individual countries, preparation names and formulas may vary slightly from country to country.

Revised: March 2005