

The Effective Therapy

As Effective as Diclofenac

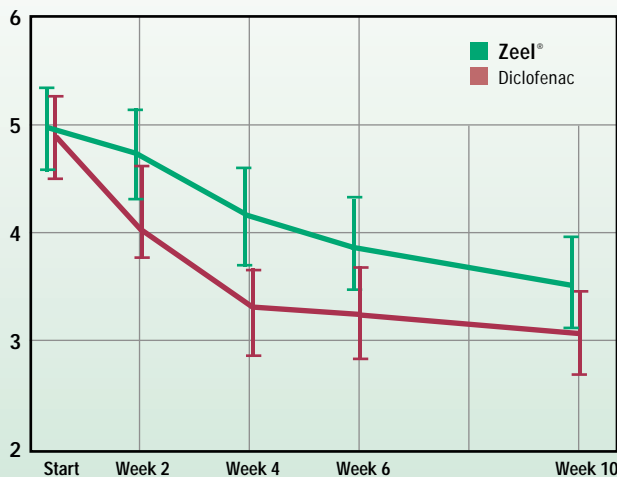


In a randomized, double-blind, controlled, multi-center clinical study of 121 patients with mild to moderate arthritis of the knee, Zeel tablets and Diclofenac (25 mg) tablets were each administered T.I.D., i.e. the total daily dose of Diclofenac was 75 mg. Using the validated, disease-specific, self-administered Western Ontario and McMaster Universities (WOMAC) Osteoarthritis Index, treatment with Zeel tablets was found to be equivalent to treatment with Diclofenac for efficacy.¹⁾

- * For symptoms associated with degenerative arthritic conditions
- * A homoeopathic combination formulation of botanical, zoological, biochemical and mineral substances
- * No adverse renal, hepatic, cardio-vascular, gastrointestinal, or CNS side effects
- * Over 30 years of worldwide therapeutic use
- * The alternative to chronic NSAID administration like Diclofenac or Cox II inhibitors

WOMAC Arthritis Index (Global Mean Values)

Global Index*



* 0 = No symptoms of arthrosis

10 = Very severe symptoms of arthrosis

95% CL upper bound
95% CL lower bound

Zeel[®]T

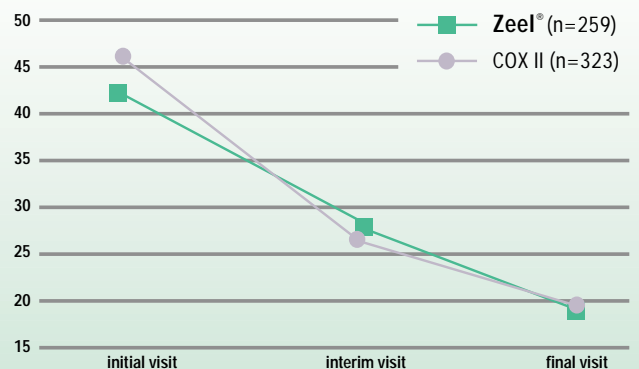
As Effective as COX II Inhibitors

In a prospective, reference-controlled multi-center cohort study of 592 patients suffering from mild to moderate gonarthrosis the efficacy of Zeel tablets was tested versus COX II inhibitors (namely Celebrex and Vioxx). The global assessment of tolerability was estimated as very good in more than 90% of the cases in the Zeel group (74% in the COX II group).

Parameters like stiffness, pain and functionality of the knee were measured using the validated WOMAC Osteoarthritis Index. The overall result of the study revealed that treatment with Zeel tablets is equivalent to treatment with COX II inhibitors for efficacy.¹¹⁾

WOMAC Arthritis Index – Global

Global Index*



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

Zeel vs NSAIDs	Zeel	Diclofenac	Cox II
Effective for reducing arthritic pain	yes	yes	yes
Effective for restoring 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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- 2) Nahler G, Metelmann H, Sperber H: Treating Osteoarthritis of the Knee with a Homeopathic Preparation. Biomedical Therapy 1998, Vol XVI, No. 2: 186-191
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- 5) Stancikova M, et al.: Effects of Zeel comp. on Experimental Osteoarthritis in Rabbit Knee. Research Institute of Rheumatic Diseases, Slovakia, 1999. Data on file pending publication, Heel GmbH, Baden-Baden, Germany.
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- 9) Potrafki B: Periarticular Injection for Therapy of Knee Inflammation (Gonarthrosis): an Alternative to Intraarticular Injection. Biomedical Therapy 1996, Vol XIV, No. 3: 223-4.
- 10) Wodick RE, et al.: Treatment of Degenerative Articular Affections with Zeel[®] T Ointment: Results of a Prospective Drug Survey Conducted with 498 Patients. Biological Therapy 1993, No. 3: 127-35
- 11) Birnesser H, Klein P, Weiser M: Modernes Homöopathikum ist COX 2-Hemmern ebenbürtig. Der Allgemeinarzt 2003, 25. Jg. No. 4: 261-64

Zeel® T

Nature and Science

The exact mode of action of Zeel is not fully understood. *In vitro* data indicate that the ingredients in Zeel may reduce pain, stiffness and inflammation in arthritic joints via immuno-modulation.

A study of human whole blood cultures demonstrated that certain plant extracts contained in Zeel (e.g., *Sanguinaria canadensis*, *Arnica montana*) stimulate lymphocytes to release transforming growth factor- β (TGF- β).³ TGF- β is particularly important in down-regulating inflammation and regulates tissue growth and collagen formation.

The protective effect of Zeel upon cartilage has been demonstrated by *in vitro* and *in vivo* studies.^{4, 6} The clinical effectiveness of Zeel® has been demonstrated in randomized, blinded, multi-center, controlled clinical trials^{1, 2} as well as uncontrolled post-marketing physician surveys.⁷⁻¹⁰

Injection Solution, Tablets and Ointment

Composition: *Injection Solution:* 2.2 ml cont.: Extr. (1:10) of *Cartilago suis*, extr. (1:10) of *Funiculus umbilicalis suis*, extr. (1:10) of *Embryo suis*, extr. (1:10) of *Placenta suis* 22 ng each; *Rhus toxicodendron* Ø, *Arnica* Ø 0.22 mg each; *Dulcamara* Ø, *Symphytum* Ø 22 µg each; *Sanguinaria* Ø 33 µg; *Sulfur* Ø (=D4) 39.6 µg; *Nadidum*, *Coenzyme A*, *Acidum alpha-liponicum*, *Natrium diethyloxalacetikum* 0.22 ng each. *Tablets:* 1 tablet cont.: Extr. (1:10) of *Cartilago suis*, extr. (1:10) of *Funiculus umbilicalis suis*, extr. (1:10) of *Embryo suis*, extr. (1:10) of *Placenta suis* 0.3 µg each; *Rhus toxicodendron* Ø 0.108 mg, extr. flor. *Arnicae* (spir. fld. 1:1) 0.06 mg; *Dulcamara* Ø 3 µg; *Symphytum* Ø 0.03 µg; *Sanguinaria* Ø 4.5 µg; *Sulfur* Ø 5.4 µg; *Acidum silicicum colloidal* 3 ng; *Nadidum*, *Coenzyme A*, *Acidum alpha-liponicum*, *Natrium diethyloxalacetikum* 0.03 ng each. *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 0.300 g; *Solanum dulcamara* D2 0.075 g; *Symphytum* D8 0.750 g; *Sanguinaria canadensis* D2 0.225 g; *Sulfur* D6 0.270 g; *Nadidum* D6, *Coenzym A* D6, *Acidum alpha-liponicum* D6, *Natrium diethyloxalacetikum* D6 0.010 g each; *Acidum silicicum* D6 1.000 g. *Ointment base:* Hydrophilic ointment containing emulsifying cetylstearyl alcohol, ethanol, purified water, viscous paraffin, white vaseline, preserved with 12.9 vol.-% ethanol. **Indications:** Arthritic degeneration (particularly of the knee); polyarthrosis, spondylarthrosis, scapulohumeral periarthrosis. **Contraindications:** *Injection Solution, Tablets:* Hypersensitivity to botanicals of the *Compositae* family or the genus *Rhus* of the *Anacardiaceae* family. *Ointment:* Hypersensitivity to arnica, the genus *Rhus* of the *Anacardiaceae* family and constituents of the ointment base. **Side effects:** *Ointment:* In rare cases, allergic skin reactions may occur. **Interactions with other medication:** None known. **Dosage:** *Injection Solution:* In general twice weekly 1 ampoule i.m., s.c., i.d., i.v. intraarticularly, periarticularly, or if necessary, paravertebrally. In the case of large joints, 2 ampoules on each occasion. **WARNING:** In rare cases after intraarticular administration of Zeel (T) (injection solution), temporary painful joint irritation may occur, possibly with sterile effusions. Administration of anti-inflammatory medication is appropriate palliative treatment in such cases. *Tablets:* In general 1 tablet to be dissolved in the mouth 3 times daily. *Ointment:* Apply to the affected areas, rubbing in gently in the morning and evening, or if necessary more often. Occlusive dressing may be applied. **Package sizes:** *Tablets:* Packs containing 50 and 250 tablets. *Injection Solution:* Packs containing 10, 50 and 100 ampoules of 2.2 ml. *Ointment:* Tubes containing 50 g and 100 g of ointment.

Zeel[®]T



The Modern Homoeopathic
Therapy for

Arthritic Degeneration

Arthritic Stiffness

Arthritic Pain



Biologische Heilmittel Heel GmbH
Baden-Baden, Germany
info@heel.de · www.heel.com

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