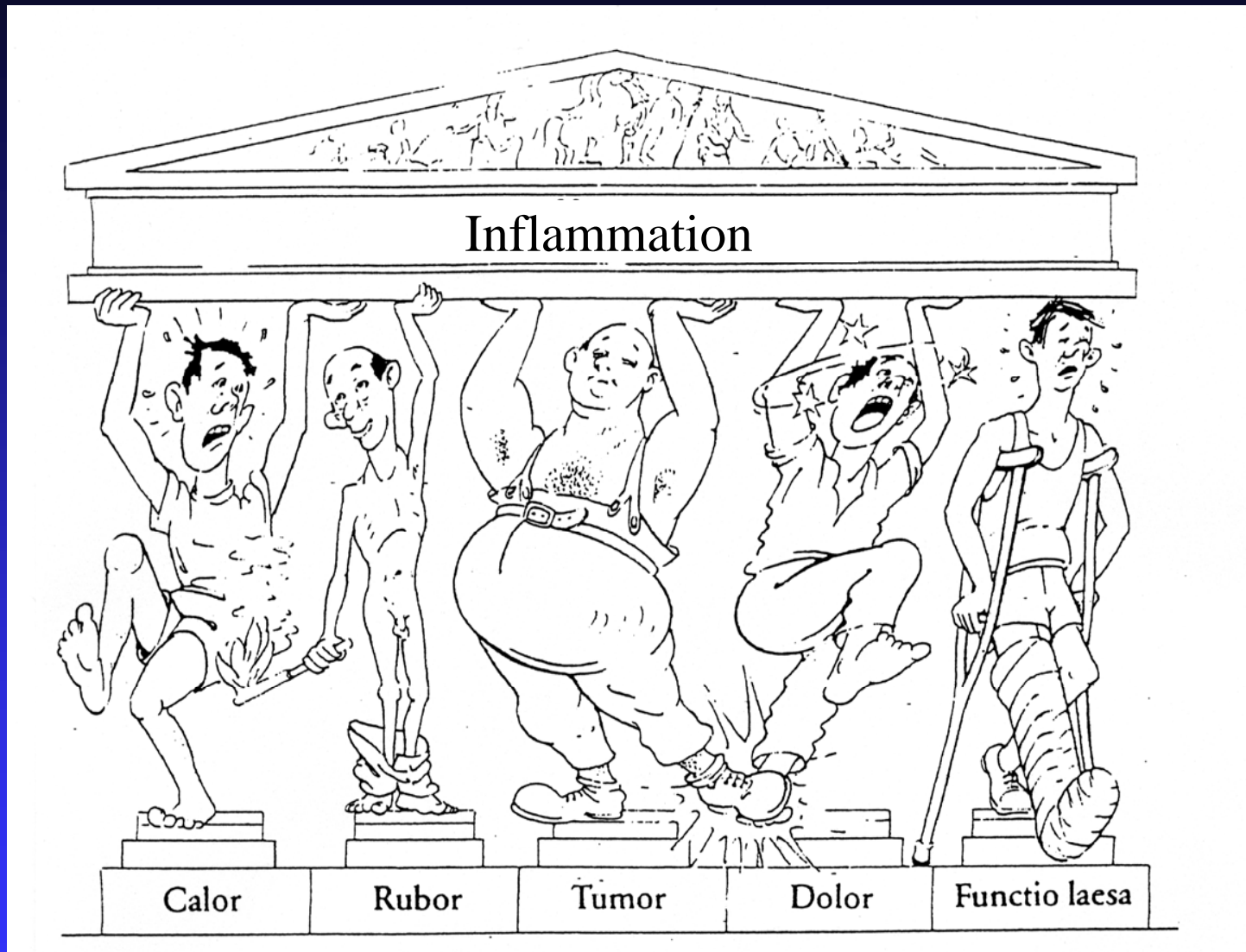


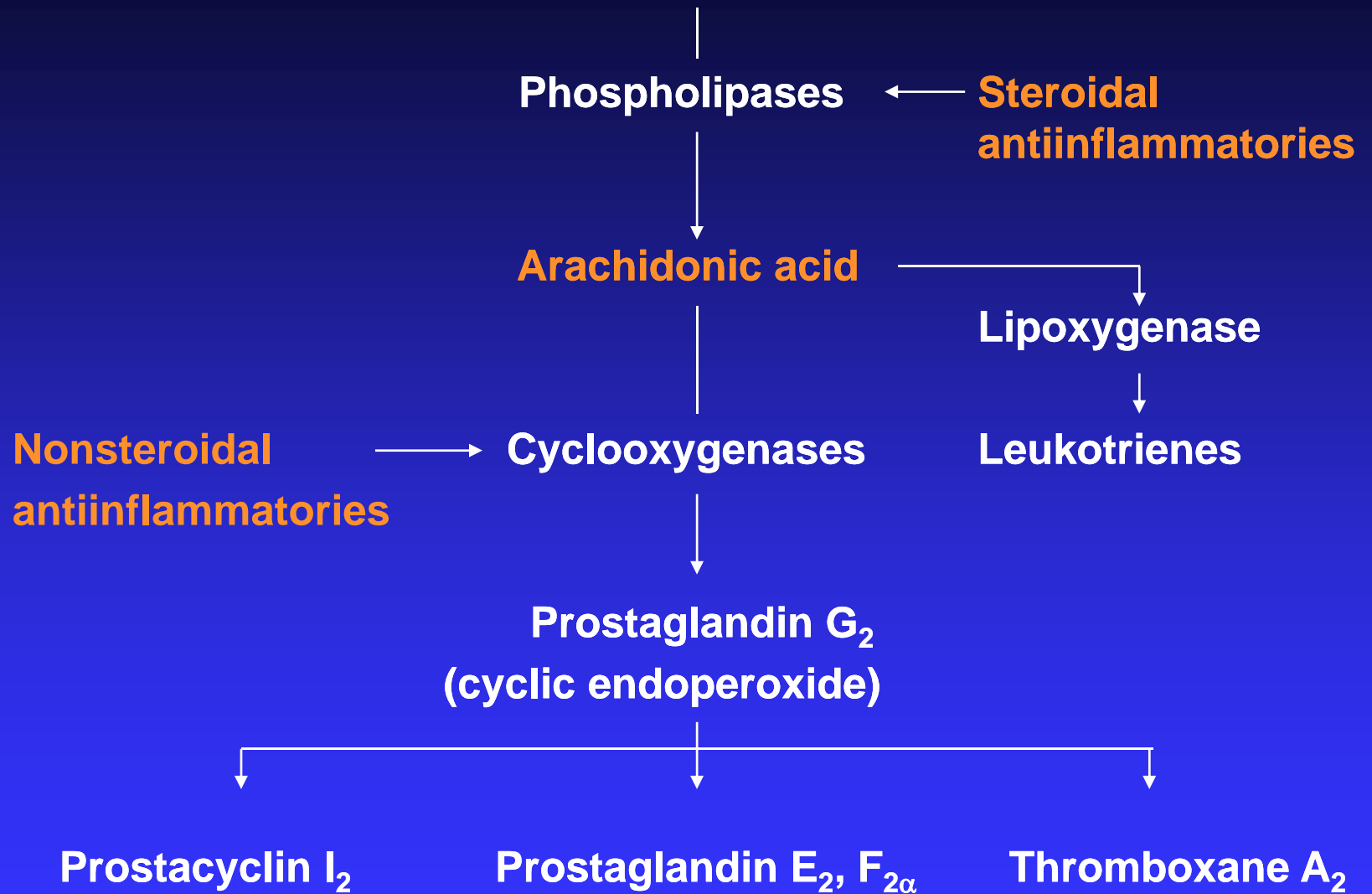
The Use of Traumeel, Zeel and Discus compositum in Daily Veterinary Practice

Dr. med. vet. Erich Reinhart



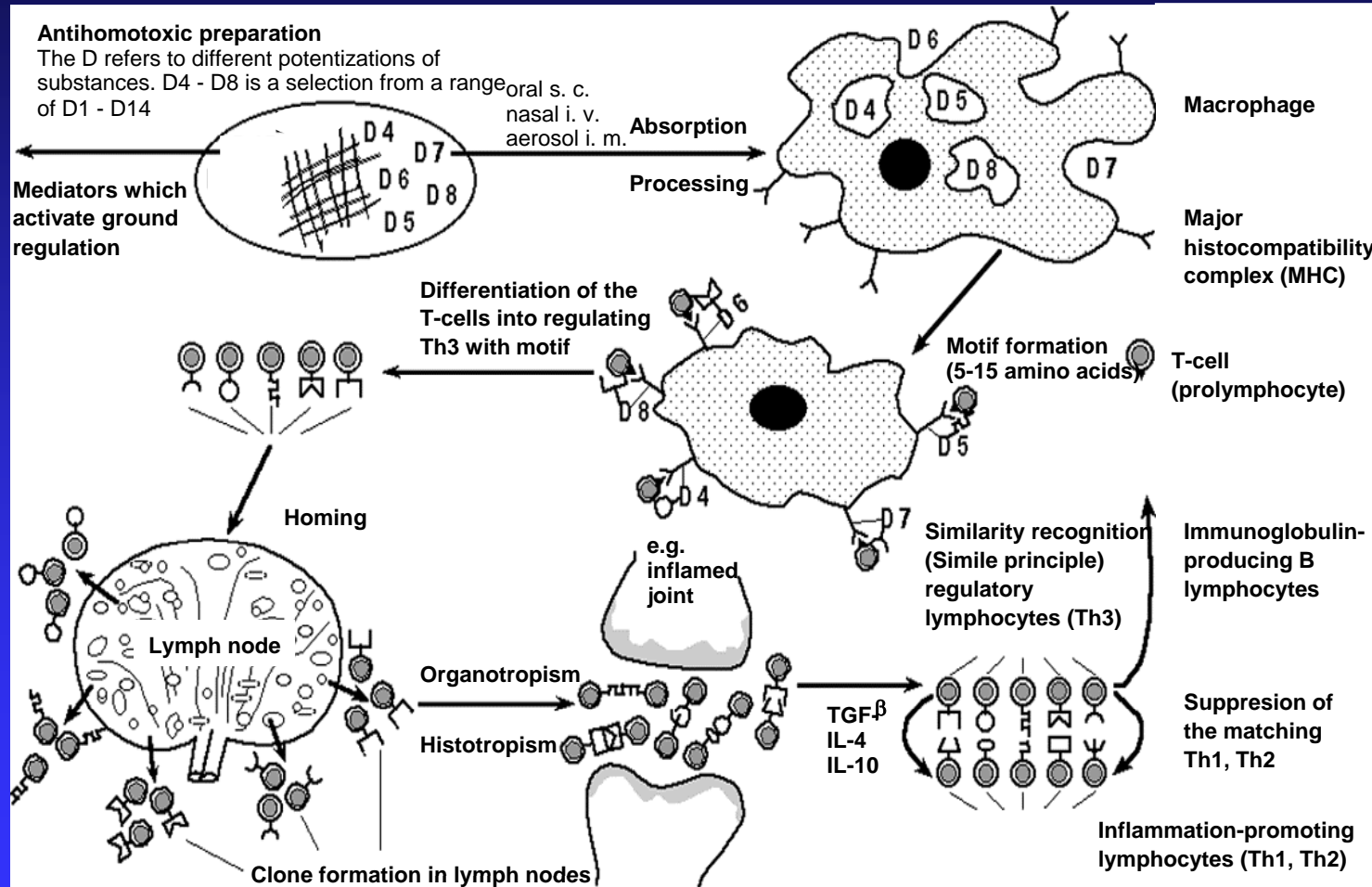
The five cardinal symptoms of inflammation as scenario
(from Riede, U.-N., Schaefer, H.-E.)

Phospholipid arachidonic acid
Constituent of the cell membranes



Arachidonic acid cascade (simplified). Points of attack for steroidal and nonsteroidal antiinflammatories

Bystander Reaction



Injuries (1)

- General:
 - ◆ Contusions
 - ◆ Distortions
 - ◆ Haematomas
 - ◆ Concussion
- Horse
 - ◆ Injuries
 - ◆ Wounds

Injuries (2)

■ Cattle:

- ◆ Injuries during birth
- ◆ Puerperal prophylaxis (Traumeel 1 - Lachesis comp. 7 - Carduus comp. 14)
- ◆ Udder injuries

■ Small animals

- ◆ Injuries (external and internal, after injuries)
- ◆ Wounds (together with Echinacea comp.)
- ◆ Othaematomas (ointment)

Use of Traumeel on the Support Apparatus and Locomotor System (Horse) (1)

- Back pain

 - Myogenic

 - Vertebragenic

 - ◆ (Traumeel together with Discus comp. and Zeel; Traumeel orally)

- In ataxia

 - ◆ (Experimental: Traumeel + Zeel + Discus comp. 3 times weekly s.c.; Traumeel 3x daily by mouth)

Use of Traumeel on the Support Apparatus and Locomotor System (Horse) (2)

- Laminitis
 - ◆ Initially Traumeel, continue several times daily, according to the cause
- Phlegmon
 - ◆ Traumeel + Lachesis comp. + Lymphomyosot

Use of Traumeel in Inflammatory Processes (Horse)

- E.g. in severe influenza
(together with Engystol/Echinacea comp.)
- Locally and by injection in summer eczema

Motor Disturbances (1)

Limbs

■ Tendinitis

- ◆ Traumeel, 5-10 ml daily
- ◆ Orally: Traumeel drops or Arnica drops

■ Tendovaginitis

- ◆ Traumeel, 5-10 ml daily
- ◆ Plus Apis-Homaccord s.c. or orally

Motor Disturbances (2)

Back

a) Cause: spinal column

- “Kissing spines”
 - ◆ Traumeel, 2x weekly 5-10 ml s.c. or as local wheal,
 - ◆ Poss. plus Neuralgo-Rheum-Injeel
- Disorders of the intervertebral disks, the vertebral joints
 - ◆ Traumeel } every 2nd day
 - together with Discus compositum } by injection
 - ◆ Orally: Traumeel drops, 2x daily

Motor Disturbances (3)

b) Cause: back muscles

- Muscle tension

- ◆ Traumeel by injection, repetition after 2 days

- Lumbago, azotoria

- ◆ Belladonna-Homaccord, 5-10 ml by injection

- ◆ Poss. also Atropinum compositum

- ◆ Orally: Berberis-Homaccord, 3x daily

- ◆ Follow with Nux vomica-Homaccord

Motor Disturbances (4)

- Tying-up syndrome
 - ◆ Traumeel by injection and by mouth
 - ◆ Also Aesculus compositum by mouth
 - ◆ Prophylaxis: Coenzyme compositum

Motor Disturbances (5)

- Spavin (deforming osteoarthropathy of the tarsal joint)

- a) **Early stage**

- ◆ Osteoheel tablets
and Traumeel tablets



10 tablets of
each once a day

- b) **Late stage**

- ◆ Osteoheel tablets
+ Zinc (injection or tablets)

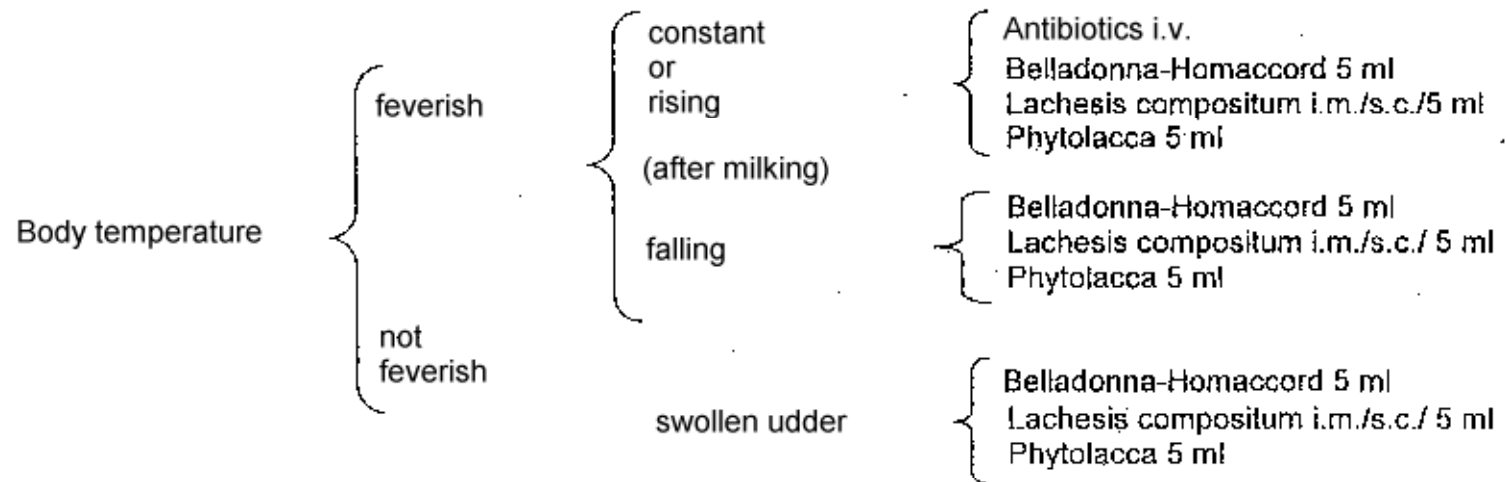
Motor Disturbances (6)

- Navicular disease (podotrochlosis)
 - a) **Early stage (podotrochlear bursitis)**
 - ◆ Traumeel + Zeel by injection
 - b) **Radiological changes**
 - ◆ Zeel, 2x weekly by injection
+ Osteoheel tablets, 3x every 6-8 days

Laminitis

- Overloading
 - ◆ Traumeel by injection
 - ◆ Orally: Traumeel drops 3-4x daily
- Intoxication
 - ◆ Nux vomica-Homaccord by injection
 - ◆ Orally: Nux vomica-Homaccord drops, hourly
- Birth laminitis
 - ◆ Intensive uterus treatment!
 - ◆ Plus Traumeel and Lachesis compositum by injection

Acute mastitis (character of milk retained)



Follow-up treatment

1. Traumeel 5 ml
Lachesis compositum i.m./s.c. 5 ml
Phytolacca 5 ml
2. Traumeel 5 ml
Lachesis compositum i.m./s.c. 5 ml
Phytolacca 5 ml

Frequent milking out

Rubbing the udder with analgesic and antiinflammatory ointments

Zeel ad us. vet. – Composition

- Cartilago suis D6
- Funiculus umbilicalis suis D6
- Embryo suis D6
- Placenta totalis suis D6
- Toxicodendron quercifolium D2
- Arnica montana D3
- Solanum dulcamara D3
- Symphytum officinale D6
- Sanguinaria canadensis D4
- Sulfur D6
- Naididum D8
- Coenzyme A D8
- Acidum alpha-liponicum D8
- Natrium diethyl-oxalaceticum D8

Indications of Zeel for Animals

- Stimulation of self-healing tendency in degenerative or chronic joint diseases
 - ◆ Arthrosis, osteoarthritis (OA)
 - ◆ Hip-joint dysplasia (HD)
 - ◆ Osteochondrosis (OCD)
 - ◆ Spondylosis
 - ◆ Spavin
 - ◆ Navicular disease etc.
- And in arthritis as follow-up treatment

Chondropathy

- Gradual progression leads to
 - ◆ Net loss of proteoglycans
 - ◆ Net loss of cartilage tissue
 - ◆ Destruction of chondrocytes
 - ◆ Loss of hyaluronic acid
- Osteophyte formation is said to be an expression of joint stabilization which does not correlate to the degree of cartilage degradation

Arthrosis – Classification (1)

■ Primary forms

Damage caused by overstrain

◆ Direct overstrain damage

☞ Heavy work, sport, high body weight

◆ Indirect overstrain damage

☞ Impairment of the function of bradytrophic tissue as a result of endogenic disturbances (ageing, metabolic changes)

Arthrosis – Classification (2)

■ Secondary forms

◆ Congenital dysplastic states

- ☞ Flat acetabulum formation; dislocations, subluxations; secondary conditions resulting from growth disorders in the epiphyseal region

◆ Acquired joint deformities

- ☞ Secondary conditions resulting from inflammatory joint diseases, rheumatic joint conditions, joint trauma

Arthrosis – Symptoms

- Joint pains
- Altered gait
- Restricted movement of the affected joint
- Various joint swellings
- Local inflammation

The disease affects many animal species and even occurred in the dinosaurs 200 million years ago.

Arthrosis – Treatment (1)

- Give Zeel and Traumeel daily for 1-2 weeks
in each case: Horse: 5-10 ml
 Dog: 1-4 ml
- Then gradually reduce the dose of Traumeel
- Depending on the improvement seen, reduce the Zeel dose or extend the interval between doses

Arthrosis – Treatment (2)

- Depending on the species, drops (Traumeel) or tablets (Traumeel, Zeel) can also be used
- Traumeel may need to be resumed for 1-2 weeks during cold, wet weather

Zeel in the Equine Practice (1)

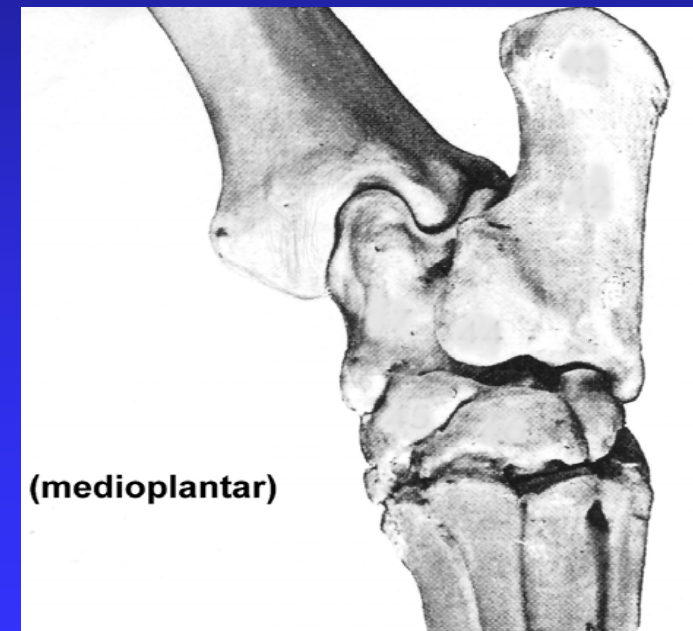
- Arthrosis
 - ◆ On acute inflammatory involvement, with Traumeel
- Spavin, ringbone, navicular disease
 - ◆ In exostoses with Osteoheel
- Chronic tendovaginitis
 - ◆ Together with Traumeel
- Prolonged lameness
 - ◆ Together with Traumeel

Zeel in the Equine Practice (2)

- Degenerative spinal changes
 - ◆ Possibly with Discus compositum
- Chronic arthritis
 - ◆ Together with Traumeel
- As adjuvant in diseases of the connective tissue, bone and cartilage
- Joint bile
 - ◆ Together with Traumeel

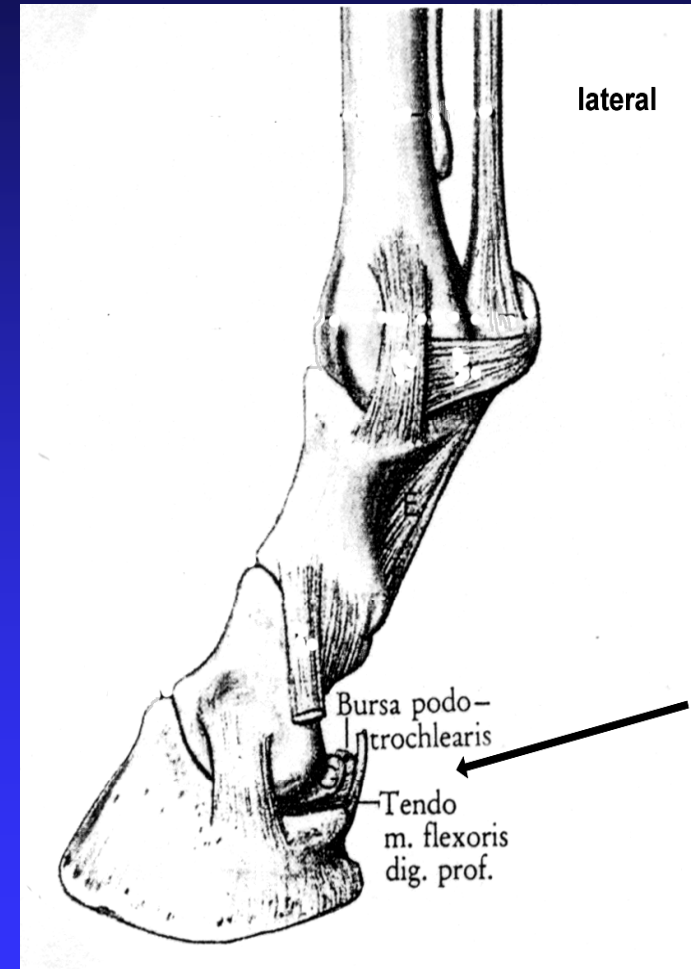
Spavin

- Arthrosis occurring on one or both sides and chronic local peri-arthritis medial to the tight joints of the tarsus (racehorses, trotters, also in cattle)
- Typical spavin lameness



Inflammation of the Navicular Bursa (Navicular Disease)

- Podotrochlititis
(inflammation of the navicular bursa formed by the navicular bone, the podotrochlear bursa and the deep flexor tendon)



Arthrosis in Horses

Treatment with Zeel - Results

Joint	Assessment		
	Excellent/good	Moderate	No effect
Fetlock joint n = 25	21	3	1
Carpal joint n = 6	2	2	2
Other joints n = 5	2	0	3
Total n = 36	25 (69.4%)	5 (13.8%)	6 (16.6%)

General Use of Zeel

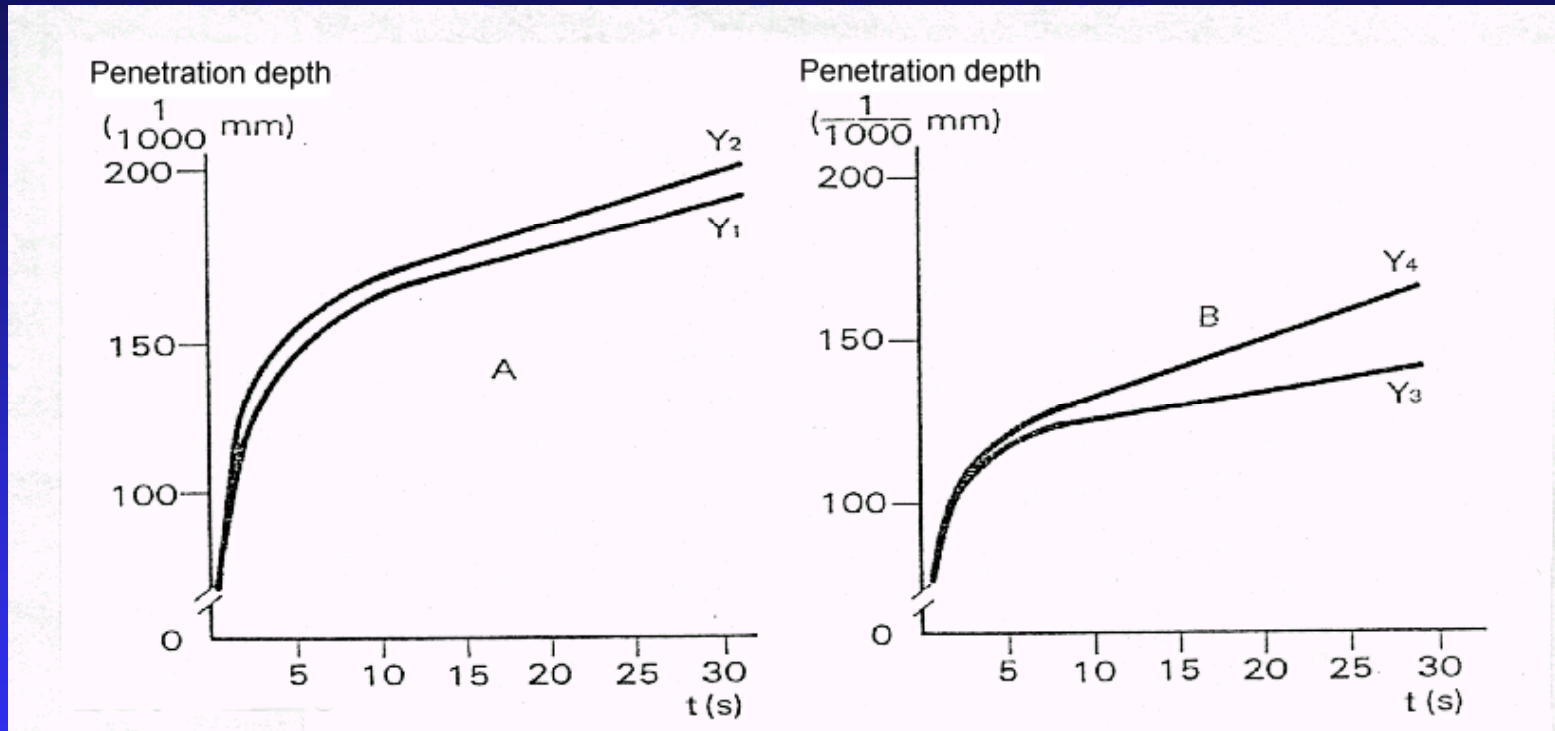
As adjuvant in:

- Connective tissue diseases
- Bone diseases
- Cartilage diseases

e.g.

- Ligament ruptures
- Fractures
 - ◆ in each case together with Traumeel
- Cranio-mandibular osteopathy

Penetration Depth of Indenter Ball



Penetration depth of the indenter ball (5 mm) as a function of time

The in-vitro Efficacy of Zeel

- Design
 - ◆ In-vitro study
 - ◆ Bovine joint cartilage
- Loading
 - ◆ Hydrolytic and proteolytic attack on the cartilage for 6 days
- Assessment of the results
 - ◆ Proof of a chondroprotective effect was obtained using optical polarization and X-ray diffraction

(recording of the main basic constituents of the cartilage such as:

proteoglycans, hyaluronic acid and collagen fibres)

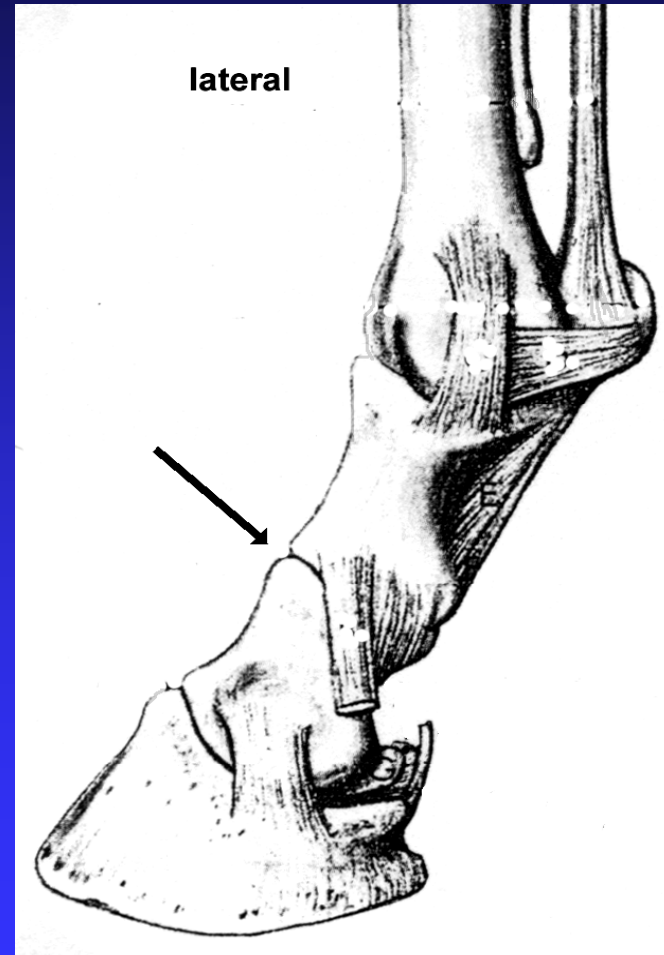
Results

- Compared to the control, for which only half the hyaluronidase and collagenase was added to the culture medium, the sample with Zeel added to the culture medium stimulated structural improvements in the cartilage tissue after an incubation period of just 48 hours.
- The in-vitro results are confirmed by clinical findings which show that Zeel has a clear protective effect on the joint cartilage.

Orlandini et al. 1997, Biol Med 26(4): 164-5

High Ringbone

- Chronic deforming arthritis of the pastern joint leading to osteophyte formation on the crown and fetlock bone with a tendency to extraarticular ankylosis (stiffening)



Case Report: High Ringbone, Horse (1)

Treatment

- 1st-3rd week, 2x a week 10 ml Zeel i.v.
- then 1x weekly 10 ml over the entire period (12 months)

Case Report: High Ringbone, Horse (2)

- Accompanying therapy:
 - ◆ IR laser douche 2x per week for 6 weeks
 - ◆ Oral treatment in parallel from the outset
 - ☞ 1st month 10 Osteoheel and 10 Zeel tablets daily
 - ☞ 2nd-6th month 10 tablets of Osteoheel or Zeel alternately every 2nd day
 - ☞ 7th and 8th month 10 tablets Zeel daily
 - ☞ 9th-12th month 5 tablets Zeel daily

Case Report: High Ringbone, Horse (3)

Result

- Clear improvement after 6 months
- Lameness no longer present after 12 months

Classic Active Substance Groups

- NSAIDs (nonsteroidal antiinflammatories)
- SAIDs (steroidal antiinflammatories)
 - ◆ Critical attitude to their importance in the literature
 - ☞ Do not contribute to causal therapy
 - ☞ Often have a catabolic effect on cartilage
 - ☞ In long-term treatment they are conspicuous for a broad spectrum of adverse side effects
 - ☞ Do not slow the progression of chondropathy

Conclusion

Special advantages of Zeel in the treatment of arthropathies:

- effective
- well tolerated
- protective (can also be used for prophylaxis)
- long-term use possible
- No doping problems

Dosage of Zeel

■ Dosage/day

◆ Horse	5 ml (450-500 kg 10 ml)	(3 x 6 tabl.)
◆ Large dog	3-4 ml	(3 x 3 tabl.)
◆ Medium dog	2 ml	(3 x 2 tabl.)
◆ Small dog	1-2 ml	(3 x 1 tabl.)

■ Mode of administration

- ◆ Subcutaneous, intravenous, intraarticular or periarticular (can also be given orally)

■ Period of administration

- ◆ Repeat every 4 days in long-term treatment