

Perdite economiche dovute alla zoppia

- **Perdite totali: € 29 per scrofa presente per anno**
- **Le perdite sono calcolate basandosi su:**
 - **Aumento delle sostituzioni delle scrofe**
 - **Meno suinetti (dovuto ad una alta percentuale di scrofette, primo parto)**
 - **Aumento della debolezza e della mortalità dei suinetti**
 - **Minori entrate dalla macellazione delle scrofe**
 - **Più lavoro per curare le scrofe zoppe e i suinetti debilitati**

La zoppia delle scrofe è dannosa per il benessere delle scrofe, dei suinetti, per la produttività e per la riduzione dei profitti che ne deriva



Come identificare le lesioni nei suini?

Guida alla valutazione delle lesioni podali

Dr. Christof Rapp, Dr. Terry Ward and Dr. Mark E. Wilson

Prodotto da Feet First™ Project: Dr. J. Deen;

Dr. M. Schuttert; Dr. S. van Amstel; Dr. P. Ossent;

Dr. R. van Barneveld and Zinpro Corporation

Perché dare un punteggio alle lesioni podali?

**Le lesioni dell'unghiello sono causa
fondamentale di zoppia**

**Valutare le lesioni dell'unghiello ed effettuare il
Locomotion Scoring sono i primi strumenti per
misurare il grado di zoppia nell'allevamento di
scrofe**

**Il Locomotion Scoring non è sempre fattibile
Le lesioni dell'unghiello possono essere facilmente
rilevate in sala parto**

¹ Dewey et al., 1993. Can Vet J. 34: 555-556.

FeetFirst



OUR MEMBERS



DR. JOHN DEEN, PH.D., DVM, ASSOCIATE PROFESSOR, VETERINARY POPULATION MEDICINE, UNIVERSITY OF MINNESOTA

Dr. John Deen earned his Doctor of Veterinary Medicine at the University of Guelph, Ontario in 1984 and his PhD in veterinary epidemiology at the same university in 1993. He gained his board certification in swine health management from the American Board of Veterinary Practitioners in 1994.

He is a member of the swine welfare committees of the National Pork Board and the American Association of Swine Veterinarians, a member of the steering committee for the American College in animal welfare and a board member of the Professional Animal Audit Certification Organization.



MARK WILSON, PH.D., REPRODUCTIVE PHYSIOLOGIST, ZINPRO CORPORATION

Dr. Wilson earned his Ph.D. and Masters degrees from the University of Kentucky, and his Bachelor's degree from Iowa State University. The first eleven years of his professional career were spent as a professor at the University of Minnesota (Waseca) where he coordinated the swine research at the Southern Experimental Station. Dr. Wilson then served as Director of Technical Service at United Feeds, while overseeing the boar and sow research. He has also spent time working for MinTube of America and Ralco Nutrition.

Currently, Dr. Wilson is part of the research and nutritional services team at Zinpro Corporation and is also an adjunct faculty member at the University of Wisconsin.



DR. SAREL VAN AMSTEL, DVM, PROFESSOR, COLLEGE OF VETERINARY MEDICINE, UNIVERSITY OF TENNESSEE

Dr. van Amstel earned his veterinary degree from the University of Pretoria, South Africa later returning to the Onderstepoort School of Veterinary Medicine in Pretoria, where he became board certified in Internal Medicine.

In 1989 he was promoted to full professor and chair of the Department of Medicine.

Dr. van Amstel moved to the US in 1996. He gained board certification with the American Board of Veterinary Practitioners (Food Animal Specialty) in 2000 and the American College of Veterinary Internal Medicine in 2001. His research includes factors relating to sole lesions in cattle and lameness in swine.



DR. ROBERT VAN BARNEVELD, PH.D., CONSULTANT RESEARCH SCIENTIST (NUTRITION) BARNEVELD NUTRITION PTY LTD, AUSTRALIA

Dr. Robert van Barneveld is a consultant research scientist and nutritionist specializing in feed evaluation for monogastrics.

He is a Specialist Director of Australian Pork Ltd, a Director of the Pork CRC Ltd, General Manager of the CHM Alliance Pty Ltd, and Chairman of Australian Pork Ltd's Research and Development Advisory Committee.

Winner of the 1992 Australian Society of Animal Production Young Scientist Award, the Inaugural Australasian Pig Science Association Butterham Memorial Award, and the 1998 Nutrition Society of Australia Research Award, he holds Associate Professorships with the Universities of Queensland and New England.



DR. KENNETH STALDER, PH.D., PROFESSOR, ANIMAL SCIENCE AT IOWA STATE UNIVERSITY

Dr. Stalder earned his M.S. in Agriculture from Western Kentucky University in 1992 and his Ph.D. in Animal Breeding and Genetics with a minor in Immunobiology from Iowa State University in 1995. Before returning to graduate school, he spent three years in the feed industry with a large cooperative in Northeast Iowa.

He is a member of several swine committees at the National Pork Board and was awarded the Young Animal Scientist - Extension award from the Midwest section of the American Society of Animal Science in 2006. Much of his research and extension programs have focused on longevity and feet and leg soundness in swine.



DR. TERRY WARD, PH.D., DIRECTOR OF RESEARCH & NUTRITIONAL SERVICES, ZINPRO CORPORATION

Terry Ward earned his Ph.D. and Masters degree from Louisiana State University and his Bachelor of Science from Oklahoma State University before joining Consolidated Nutrition in Decatur, Indiana as a nutritionist.

He began his career with Zinpro Corporation as a Research Nutritionist and was appointed Director of Research & Nutritional Services in 2002.

His responsibilities include research and technical services, for all species, for Zinpro business units and distributors around the globe.



DR. CHRISTOF RAPP, DR. SC. AGR.

Dr. Christof Rapp earned his Dr. sc. agr. (equivalent to a PhD) from Hohenheim University, Germany.

He has been a research nutritionist with Zinpro since 1998, and has worked from the European office, in Bozeman, since 2005. His primary responsibilities are conducting research on animal performance, providing technical support to Zinpro customers and troubleshooting nutrition-related problems in sow herds. Over the last three years he has developed specialist knowledge of factors influencing sow lameness.



DR. SUKUMARANNAIR S. ANIL

Dr. Sukumarannair S. Anil earned his Bachelor and Masters degrees in veterinary science from India and his Ph.D. from the University of Reading, United Kingdom.

He is a veterinarian and post-doctoral researcher at the College of Veterinary Medicine, University of Minnesota and actively involved with feet lesion and sow lameness research.



PETE OSSENT, DVM, VETERINARY PATHOLOGIST, UNIVERSITY OF ZURICH, SWITZERLAND

Pete Ossent graduated from the University of Zurich in 1974, later returning to join the university's Department of Veterinary Pathology, as a lecturer.

He is involved in diagnostic pathology and teaching, and has a special interest in the pathology of the bovine and porcine digit.



MARRINA SCHUTTERT, DVM, VETERINAIR CENTRUM SOMEREN, NETHERLANDS

Born on one of the largest swine farms in the Netherlands, MARRINA Schuttert studied at the veterinarian university in Utrecht, graduating in 1993.

From there she joined a large vet practice in Someren (the area of the Netherlands with the densest swine population) and for the last 9 years has specialized in swine health.

A board member of the group of large animal practitioners in The Netherlands, and veterinarian for the Dutch swine research farm (Sterke) MARRINA also trains students in sow management.

Gruppo Feet First

The Feet First Group is an international collaboration of researchers, veterinarians and nutritionists actively engaged in investigating sow lameness. Their combined knowledge and experience forms the basis of the Feet First endeavor, to better understand sow lameness and identify potential solutions that the industry can adopt.

Ipercheratosi ed erosione del cuscinetto plantare 1 – lieve



**Lieve ipercheratosi e/o leggera erosione
del tessuto molle del tallone**

Ipercheratosi ed erosione del cuscinetto plantare 2 – moderata



**Numerose screpolature con evidente
ipercheratosi ed erosione**

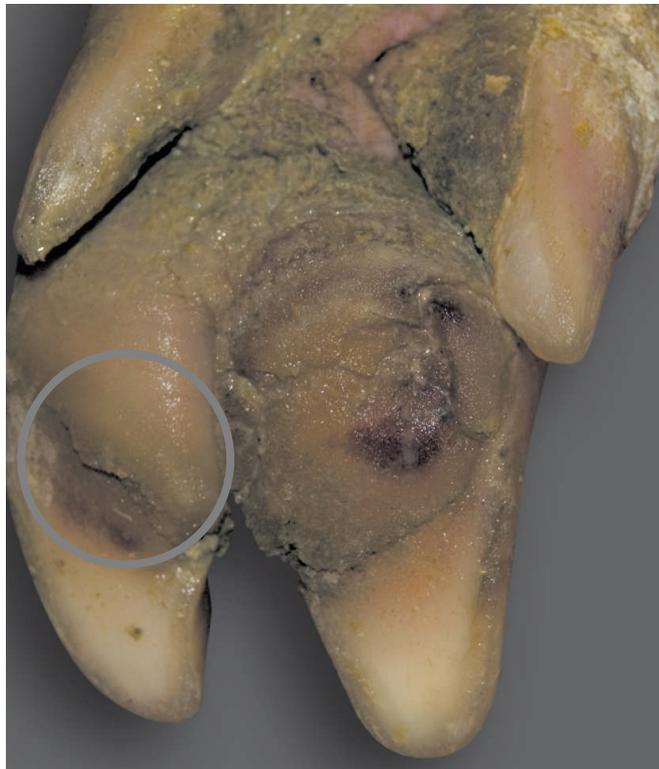
Ipercheratosi ed erosione del cuscinetto plantare 3 – grave



**Grave ipercheratosi ed erosione
con screpolature diffuse**

Frattura suola/tallone

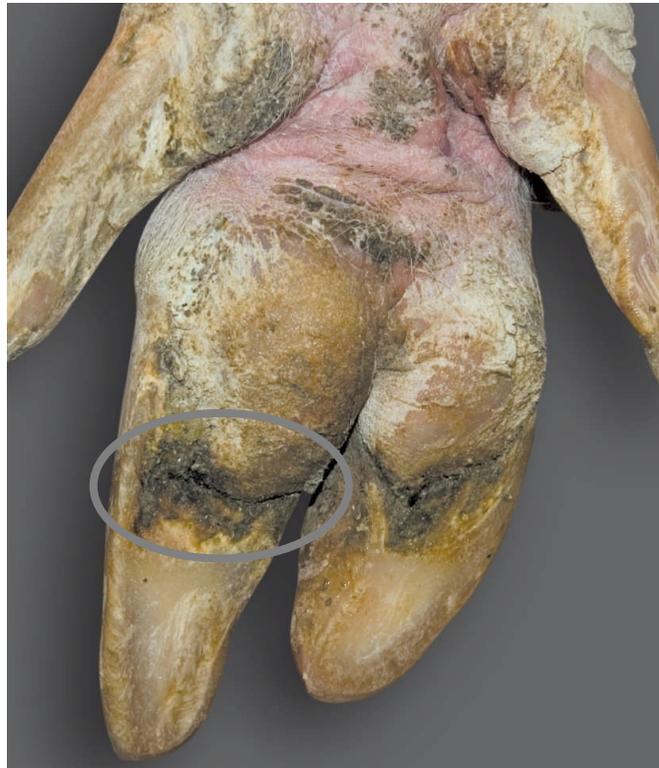
1 – lieve



Lieve separazione nella giuntura

Frattura suola/tallone

2 – moderata



Estesa separazione nella giuntura

Frattura suola/tallone

3 – grave



Estesa e profonda separazione nella giuntura

Linea bianca

1 – lieve



Breve e/o superficiale separazione lungo la linea bianca

Linea bianca

2 – moderata



Estesa separazione lungo la linea bianca

Linea bianca

3 – grave



Estesa e profonda separazione lungo la linea bianca

Frattura orizzontale della parete

1 – lieve



Evidente emorragia, frattura orizzontale limitata o superficiale nella parete dell'unghietto