

10. Literaturverzeichnis

Aarestrup, F. M.; Jensen, N. E. (1997):

Prevalence and duration of intramammary infection in Danish heifers during the peripartum period.

J Dairy Sci 80(2). S. 307-12.

ADR (2005):

Jahresbericht 2005.

Arbeitsgemeinschaft deutscher Rinderzüchter.

http://www.adr-web.de/index.php?leistungen_der_mlpkuehe_2005

Arzneimittelgesetz (2005):

Gesetz über den Verkehr mit Arzneimitteln.

Bundesgesetzblatt I, Nr. 73 § 56 a, Nr. 2.

Barkema, H. W.; Schukken, Y. H.; Lam, T. J.; Beiboer, M. L., et al. (1999):

Management practices associated with the incidence rate of clinical mastitis.

J Dairy Sci 82(8). S. 1643-54.

Barnouin, J.; Chassagne, M. (2001):

Predictive variables for the occurrence of early clinical mastitis in primiparous Holstein cows under field conditions in France.

Can Vet J 42(1). S. 47-53.

Barto, P. B.; Bush, L. J.; Adams, G. D. (1982):

Feeding milk containing *Staphylococcus aureus* to calves.

J Dairy Sci 65(2). S. 271-4.

Borm, A. A.; Fox, L. K.; Leslie, K. E.; Hogan, J. S., et al. (2006):

Effects of prepartum intramammary antibiotic therapy on udder health, milk production, and reproductive performance in dairy heifers.

J Dairy Sci 89(6). S. 2090-8.

Brade, W.; Flachowsky, G. (2005).

Rinderzucht und Milcherzeugung, Jahresbericht 2004
Bundesforschungsanstalt für Landwirtschaft, Seite 152.

Bramley, A. J.; Leaver, J. D.; Kingwill, R. G.; Simpkin, D. L. (1977):

Corynebacterium pyogenes mastitis among heifer calves.
Vet Rec 100(22). S. 464-5.

Brammer, H. (1981):

Untersuchung zum Vorkommen von Streptococcus agalactiae und Staphylococcus aureus in
Tonsillen und Lymphknoten gesunder Kälber und Jungrinder unter Berücksichtigung der
peripartalen Mastitis bei Erstkalbinnen.
Hannover, Tierärztliche Hochschule, Dissertation, 158 S.

BTK und Arge Vet (2000):

Bundestierärztekammer und Arbeitsgemeinschaft beamteter Tierärzte
Leitlinien für den sorgfältigen Umgang mit antimikrobiell wirksamen Tierarzneimitteln.
Großtierpraxis (5) 2000, Seite 34-35.

Cook, N. B.; Bennett, T. B.; Emery, K. M.; Nordlund, K. V. (2002a):

Monitoring nonlactating cow intramammary infection dynamics using DHI somatic cell count
data.
J Dairy Sci 85(5). S. 1119-26.

Cook, N. B.; Bennett, T. B.; Emery, K. M.; Nordlund, K. V. (2002b):

Monitoring Nonlactation Cow Intramammary Infection Dynamics Using DHI Somatic Cell
Count Data.
J Dairy Sci 85(5). S. 1119-1126.

Correa, M. T.; Curtis, C. R.; Erb, H. N.; Scarlett, J. M., et al. (1990):

An ecological analysis of risk factors for postpartum disorders of Holstein-Friesian cows from
thirty-two New York farms.
J Dairy Sci 73(6). S. 1515-24.

Curtis, C. R.; Erb, H. N.; Sniffen, C. J.; Smith, R. D., et al. (1983):

Association of parturient hypocalcemia with eight periparturient disorders in Holstein cows.

J Am Vet Med Assoc 183(5). S. 559-61.

De Vliegheer, S.; Barkema, H. W.; Opsomer, G.; de Kruif, A., et al. (2005a):

Association between somatic cell count in early lactation and culling of dairy heifers using cox frailty models.

J Dairy Sci 88(2). S. 560-8.

De Vliegheer, S.; Barkema, H. W.; Stryhn, H.; Opsomer, G., et al. (2004a):

Impact of early lactation somatic cell count in heifers on somatic cell counts over the first lactation.

J Dairy Sci 87(11). S. 3672-82.

De Vliegheer, S.; Barkema, H. W.; Stryhn, H.; Opsomer, G., et al. (2005b):

Impact of early lactation somatic cell count in heifers on milk yield over the first lactation.

J Dairy Sci 88(3). S. 938-47.

De Vliegheer, S.; Laevens, H.; Barkema, H. W.; Dohoo, I. R., et al. (2004b):

Management practices and heifer characteristics associated with early lactation somatic cell count of Belgian dairy heifers.

J Dairy Sci 87(4). S. 937-47.

Dorfner, G.; Zickgraf, W. (2006):

Deckungsbeiträge und Kalkulationsdaten in der Milchkuhhaltung.

Bayerische Landesanstalt für Landwirtschaft Agrarökonomie.

Institut für ländliche Strukturentwicklung, Betriebswirtschaft und Agrarinformatik

http://www.lfl.bayern.de/ilb/db/14249/db_berechnung.php?was=milchkuh

Edinger, D. (2001):

Peripartale Mastitiden bei Erstkalbinnen- Untersuchungen zu Ätiologie und Prophylaxe sowie zu Auswirkungen auf Gesundheit und Leistungsfähigkeit.

Berlin, Freie Universität Berlin. Fachbereich Veterinärmedizin, Dissertation. 143 S.

Edinger, D.; Tenhagen, B. A.; Kalbe, P.; Klunder, G., et al. (2000):

Effect of teat dipping with a germicide barrier teat dip in late gestation on intramammary infection and clinical mastitis during the first 5 days post-partum in primiparous cows.

J Vet Med A Physiol Pathol Clin Med 47(8). S. 463-8.

Egle, B. (2005):

Verhaltensbeobachtungen zum gegenseitigen Besaugen von Fleckviehkälbern.

Wittenberg, Martin- Luther- Universität. Institut für Tierzucht und Tierhaltung mit Tierklinik, Dissertation. 148 S.

Elbers, A. R.; Miltenburg, J. D.; De Lange, D.; Crauwels, A. P., et al. (1998):

Risk factors for clinical mastitis in a random sample of dairy herds from the southern part of The Netherlands.

J Dairy Sci 81(2). S. 420-6.

Erb, H. N.; Smith, R. D.; Oltenacu, P. A.; Guard, C. L., et al. (1985):

Path model of reproductive disorders and performance, milk fever, mastitis, milk yield, and culling in Holstein cows.

J Dairy Sci 68(12). S. 3337-49.

Ettema, J. F.; Santos, J. E. (2004):

Impact of age at calving on lactation, reproduction, health, and income in first-parity Holsteins on commercial farms.

J Dairy Sci 87(8). S. 2730-42.

EU- VO. Nr. 2073 (2005):

Verordnung (EG) über mikrobiologische Kriterien für Lebensmittel vom 15.11.2005. -

In: Anhang C, Kapitel 1, Abschnitt A, Nr. 4, a.), b.), c.), d.).

Feldmann, M.; Zimmermann, A.; Hoedemaker, M. (2006):

Einfluss melktechnischer sowie melk- und umwelt- hygienischer Parameter auf die mikrobielle Kontamination von Melkanlagen.

[Influence of milking technique, milking hygiene and environment on microbial contamination of milking machine].

Dtsch Tierarztl Wochenschr 113(7). S. 274-81.

Fox, L. K.; Chester, S. T.; Hallberg, J. W.; Nickerson, S. C., et al. (1995):
Survey of intramammary infections in dairy heifers at breeding age and first parturition.
J Dairy Sci 78(7). S. 1619-28.

Godden, S.; Rapnicki, P.; Stewart, S.; Fetrow, J., et al. (2003):
Effectiveness of an internal teat seal in the prevention of new intramammary infections during
the dry and early-lactation periods in dairy cows when used with a dry cow intramammary
antibiotic.
J Dairy Sci 86(12). S. 3899-911.

Godden, S. M.; Fetrow, J. P.; Feirtag, J. M.; Green, L. R., et al. (2005):
Economic analysis of feeding pasteurized nonsaleable milk versus conventional milk replacer
to dairy calves.
J Am Vet Med Assoc 226(9). S. 1547-54.

Gröhn, Y. T.; Gonzalez, R. N.; Wilson, D.; Hertl, J. A., et al. (2005):
Effect of pathogen-specific clinical mastitis on herd life in two New York State dairy herds.
Preventive Veterinary Medicine 71(1-2). S. 105-125.

Gröhn, Y. T.; Wilson, D. J.; Gonzalez, R. N.; Hertl, J. A., et al. (2004):
Effect of pathogen-specific clinical mastitis on milk yield in dairy cows.
J Dairy Sci 87(10). S. 3358-74.

Hamann, J. (1992):
Zum Einfluss von Stresssituationen auf die Anzahl somatischer Zellen der Milch.
Der Praktische Tierarzt 73. S. 38-41.

Hamann, J.; Fehlings, K. (2002):
Bekämpfungsrelevante Aspekte der Mastitis des Rindes als Bestandsproblem.
In: Leitlinien zur Bekämpfung der Mastitis des Rindes als Bestandsproblem. / J. Hamann, and
K. Fehlings (Hrsg.).
Gießen: Verlag der DVG Service GmbH. - ISBN: 3-935747-14-4. - S. 4, 11.

Heinrichs, A. J. (1993):

Raising dairy replacements to meet the needs of the 21st century.

J Dairy Sci 76(10). S. 3179-87.

Heinrichs, A. J.; Wells, S. J.; Hurd, H. S.; Hill, G. W., et al. (1994):

The National Dairy Heifer Evaluation Project: a profile of heifer management practices in the United States.

J Dairy Sci 77(6). S. 1548-55.

Huxley, J. N.; Greent, M. J.; Green, L. E.; Bradley, A. J. (2002):

Evaluation of the efficacy of an internal teat sealer during the dry period.

J Dairy Sci 85(3). S. 551-61.

IDF (1995):

Milk - Enumeration of somatic cells

Joint IDF/ISO Standard

Description/principle: microscopic or Coulter counter or fluoro-opto-electronic.

International Dairy Federation Standard 148A. S. 8.

IDF (1997):

Recommendations for presentation of mastitis-related data; guideline for evaluation of the milking process.

Bulletin of the International Dairy Federation 321.

Jamaluddin, A. A.; Carpenter, T. E.; Hird, D. W.; Thurmond, M. C. (1996):

Economics of feeding pasteurized colostrum and pasteurized waste milk to dairy calves.

J Am Vet Med Assoc 209(4). S. 751-6.

Keil, N. M.; Audige, L.; Langhans, W. (2000):

Factors associated with intersucking in Swiss dairy heifers.

Prev Vet Med 45(3-4). S. 305-23.

Klaas, I. C. (2000):

Untersuchung zum Auftreten von Mastitiden und zur Tiergesundheit in 15 Milchviehbetrieben Schleswig-Holsteins.

Berlin, Freie Universität Berlin. Fachbereich Veterinärmedizin, Dissertation. 193 S.

Köster, G.; Tenhagen, B. A.; Scheibe, N.; Heuwieser, W. (2006):

Factors associated with high milk test day somatic cell counts in large dairy herds in brandenburg. II. Milking practices.

J Vet Med A 53(4). S. 209-214.

Kreienbrock, L.; Schach, S. (2005):

Epidemiologische Studien.

In: Epidemiologische Methoden. / L. Kreienbrock, and S. Schach (Hrsg.).

München: Elsevier, Spektrum Akademischer Verlag. - ISBN: 3-8274-1528-4. - S. 58-59.

Land und Forst (2006):

Euterentzündungen gezielt bekämpfen. 25.08.2006

Deutscher Landwirtschaftsverlag.

<http://www.landundforst.de/sro.php?redid=106882>

Leitner, G.; Yadlin, N.; Lubashevsky, E.; Ezra, E., et al. (2003):

Development of a Staphylococcus aureus vaccine against mastitis in dairy cows. II. Field trial.

Vet Immunol Immunopathol 93(3-4). S. 153-8.

LFGB (2006):

Lebensmittel-und Futtermittelgesetzbuch i. d. F. v. 26.04.2006

Bundesgesetzblatt Teil 1, Nr. 55 §10.

LKV Brandenburg (2004):

Jahresbericht 2004.

Landeskontrollverband Brandenburg. S. 31 und 34.

LKV Brandenburg (2005):

Jahresbericht 2005.

Landeskontrollverband Brandenburg. S. 37.

Lukas, J. M.; Hawkins, D. M.; Kinsel, M. L.; Reneau, J. K. (2005):

Bulk tank somatic cell counts analyzed by statistical process control tools to identify and monitor subclinical mastitis incidence.

J Dairy Sci 88(11). S. 3944-52.

Mallard, B. A.; Dekkers, J. C.; Ireland, M. J.; Leslie, K. E., et al. (1998):

Alteration in immune responsiveness during the peripartum period and its ramification on dairy cow and calf health.

J Dairy Sci 81(2). S. 585-95.

Mantysaari, E. A.; Grohn, Y. T.; Quaas, R. L. (1991):

Clinical ketosis: phenotypic and genetic correlations between occurrences and with milk yield.

J Dairy Sci 74(11). S. 3985-93.

Mehrzad, J.; Dosogne, H.; Meyer, E.; Heyneman, R., et al. (2001):

Respiratory burst activity of blood and milk neutrophils in dairy cows during different stages of lactation.

J Dairy Res 68(3). S. 399-415.

Middleton, J. R.; Timms, L. L.; Bader, G. R.; Lakritz, J., et al. (2005):

Effect of prepartum intramammary treatment with pirlimycin hydrochloride on prevalence of early first-lactation mastitis in dairy heifers.

J Am Vet Med Assoc 227(12). S. 1969-74.

Milch G-VO (2003):

Verordnung über die Güteprüfung und Bezahlung der Anlieferungsmilch.

Bundesgesetzblatt Teil1, Nr. 2170 §3, Absatz 3

§1 und §7 Nr.3 und Nr. 7.

Milch-VO (2004):

Verordnung über Hygiene- und Qualitätsanforderungen an Milch und Erzeugnisse auf Milchbasis.

Bundesgesetzblatt Nr. 2791 §3, Absatz 3, Nr 1 und Anlage 4

§17, Nr. 1 und 2

§18, Nr. 2, Absatz 1 und Anlage 1 Nr. 1.1 bis 1.4.

Myllys, V.; Rautala, H. (1995):

Characterization of clinical mastitis in primiparous heifers.

J Dairy Sci 78(3). S. 538-45.

Nickerson, S. C. (1985):

Immune mechanisms of the bovine udder: an overview.

J Am Vet Med Assoc 187(1). S. 41-5.

Nickerson, S. C.; Owens, W. E.; Boddie, R. L. (1995):

Mastitis in Dairy Heifers.

Journal of Dairy Science 78(7). S. 1607-1618.

Nonnecke, B. J.; Kimura, K.; Goff, J. P.; Kehrl, M. E., Jr. (2003):

Effects of the mammary gland on functional capacities of blood mononuclear leukocyte populations from periparturient cows.

J Dairy Sci 86(7). S. 2359-68.

Ohm, B. (1958):

Infektionen des infantilen Rindereuters.

Institut für Tiergesundheit der Landwirtschaftskammer Schleswig- Holstein, Veterinär-Medizinische Fakultät Gießen. Dissertation. 37 S.

Oliver, S. P.; Gillespie, B. E.; Ivey, S. J.; Lewis, M. J., et al. (2004):

Influence of prepartum pirlimycin hydrochloride or penicillin-novobiocin therapy on mastitis in heifers during early lactation.

J Dairy Sci 87(6). S. 1727-31.

Oliver, S. P.; Sordillo, L. M. (1988):

Udder health in the periparturient period.

J Dairy Sci 71(9). S. 2584-606.

O'Reilly, K. M.; Green, M. J.; Peeler, E. J.; Fitzpatrick, J. L., et al. (2006):

Investigation of risk factors for clinical mastitis in British dairy herds with bulk milk somatic cell counts less than 150,000 cells/ml.

Vet Rec 158(19). S. 649-53.

Owens, W. E.; Nickerson, S. C.; Boddie, R. L.; Tomita, G. M., et al. (2001):

Prevalence of mastitis in dairy heifers and effectiveness of antibiotic therapy.

J Dairy Sci 84(4). S. 814-7.

Paape, M.; Mehrzad, J.; Zhao, X.; Detilleux, J., et al. (2002):

Defense of the Bovine Mammary Gland by Polymorphonuclear Neutrophil Leukocytes.

Journal of Mammary Gland Biology and Neoplasia 7(2). S. 109-121.

Pankey, J.; Pankey, P.; Barker, R.; Williamson, J., et al. (1996):

The prevalence of mastitis in primiparous heifers in eleven Waikato dairy herds.

New Zealand Veterinary Journal 44(2). S. 41-44.

Persson Waller, K.; Westermarck, T.; Ekman, T.; Svennersten-Sjaunja, K. (2003):

Milk leakage--an increased risk in automatic milking systems.

J Dairy Sci 86(11). S. 3488-97.

Rajala-Schultz, P. J.; Grohn, Y. T. (1999a):

Culling of dairy cows. Part III. Effects of diseases, pregnancy status and milk yield on culling in Finnish Ayrshire cows.

Prev Vet Med 41(4). S. 295-309.

Rajala-Schultz, P. J.; Grohn, Y. T.; McCulloch, C. E.; Guard, C. L. (1999b):

Effects of clinical mastitis on milk yield in dairy cows.

J Dairy Sci 82(6). S. 1213-20.

Rensburg, v. (1942):

Streptococcus mastitis in heifers.

The journal of the South African Veterinary Medical Association 13(37).

Roberson, J. R.; Fox, L. K.; Hancock, D. D.; Gay, J. M., et al. (1998):

Sources of intramammary infections from *Staphylococcus aureus* in dairy heifers at first parturition.

J Dairy Sci 81(3). S. 687-93.

Rodrigues, A. C.; Caraviello, D. Z.; Ruegg, P. L. (2005):

Management of Wisconsin dairy herds enrolled in milk quality teams.

J Dairy Sci 88(7). S. 2660-71.

Sanford, C. J.; Keefe, G. P.; Dohoo, I. R.; Leslie, K. E., et al. (2006):

Efficacy of using an internal teat sealer to prevent new intramammary infections in nonlactating dairy cattle.

J Am Vet Med Assoc 228(10). S. 1565-73.

Saran, A. (1995):

Disinfection in the dairy parlour.

Rev Sci Tech 14(1). S. 207-24.

Schalm, O. W.; Woods, G. M. (1953):

The mastitis complex.

J Am Vet Med Assoc 122(915). S. 462-7.

Schreiner, D. A.; Ruegg, P. L. (2003):

Relationship between udder and leg hygiene scores and subclinical mastitis.

J Dairy Sci 86(11). S. 3460-5.

Schukken, Y. H.; Grommers, F. J.; Van de Geer, D.; Erb, H. N., et al. (1990):

Risk factors for clinical mastitis in herds with a low bulk milk somatic cell count. 1. Data and risk factors for all cases.

J Dairy Sci 73(12). S. 3463-71.

Schukken, Y. H.; Grommers, F. J.; van de Geer, D.; Erb, H. N., et al. (1991):
Risk factors for clinical mastitis in herds with a low bulk milk somatic cell count. 2. Risk factors for *Escherichia coli* and *Staphylococcus aureus*.
J Dairy Sci 74(3). S. 826-32.

Schukken, Y. H.; Weersink, A.; Leslie, K. E.; Martin, S. W. (1993):
Dynamics and regulation of bulk milk somatic cell counts.
Can J Vet Res 57(2). S. 131-5.

Skrzypek, R.; Wojtowski, J.; Fahr, R. D. (2004):
Factors affecting somatic cell count in cow bulk tank milk--a case study from Poland.
J Vet Med A Physiol Pathol Clin Med 51(3). S. 127-31.

Slettbakk, T.; Jorstad, A.; Farver, T. B.; Hird, D. W. (1990):
Impact of Milking Characteristics and Teat Morphology on Somatic-Cell Counts in 1st-Lactation Norwegian Cattle.
Preventive Veterinary Medicine 8(4). S. 253-267.

Statistisches Jahrbuch der DDR (1990):
Statistisches Jahrbuch der Land,- Forst, und
Nahrungsgüterwirtschaft der DDR 1990.

Svensson, C.; Nyman, A. K.; Persson Waller, K.; Emanuelson, U. (2006):
Effects of housing, management, and health of dairy heifers on first-lactation udder health in southwest Sweden.
J Dairy Sci 89(6). S. 1990-9.

Tenhagen, B. A. (2006):
Melkzeugzwischeninfektion- Möglichkeiten und Grenzen.
In: Tagung des Arbeitskreises "Eutergesundheit". / J. Hamann, and K. Fehling (Hrsg.).
Gießen: Verlag der DVG Service GmbH. - ISBN: 3-938026-92-8. - S. 96-103.

Tenhagen, B. A.; Edinger, D.; Baumgartner, B.; Kalbe, P., et al. (2001):

Efficacy of a herd-specific vaccine against *Staphylococcus aureus* to prevent post-partum mastitis in dairy heifers.

J Vet Med A Physiol Pathol Clin Med 48(10). S. 601-7.

Tenhagen, B. A.; Koster, G.; Wallmann, J.; Heuwieser, W. (2006):

Prevalence of mastitis pathogens and their resistance against antimicrobial agents in dairy cows in Brandenburg, Germany.

J Dairy Sci 89(7). S. 2542-51.

Trinidad, P.; Nickerson, S. C.; Adkinson, R. W. (1990a):

Histopathology of staphylococcal mastitis in unbred dairy heifers.

J Dairy Sci 73(3). S. 639-47.

Trinidad, P.; Nickerson, S. C.; Alley, T. K. (1990b):

Prevalence of intramammary infection and teat canal colonization in unbred and primigravid dairy heifers.

J Dairy Sci 73(1). S. 107-14.

Uhlenbrock, F.; Spohr, M.; Geringer, M. (2006):

Halbeuterversuch zur Melkzeugzwischeninfektion.

In: Tagung des Arbeitskreises "Eutergesundheit". / K. Fehlings, and J. Hamann (Hrsg.).

Gießen: Verlag der DVG Service GmbH. - S. 96-103.

Waage, S.; Mork, T.; Roros, A.; Aasland, D., et al. (1999):

Bacteria associated with clinical mastitis in dairy heifers.

J Dairy Sci 82(4). S. 712-9.

Waage, S.; Odegaard, S. A.; Lund, A.; Brattgjerd, S., et al. (2001):

Case-control study of risk factors for clinical mastitis in postpartum dairy heifers.

J Dairy Sci 84(2). S. 392-9.

Waage, S.; Skei, H. R.; Rise, J.; Rogdo, T., et al. (2000):

Outcome of clinical mastitis in dairy heifers assessed by reexamination of cases one month after treatment.

J Dairy Sci 83(1). S. 70-6.

Waage, S.; Sviland, S.; Odegaard, S. A. (1998):

Identification of risk factors for clinical mastitis in dairy heifers.

J Dairy Sci 81(5). S. 1275-84.

Wanner, J. M.; Rogers, G. W.; Kehrli, M. E.; Cooper, J. B. (1999):

Clinical mastitis in primiparous Holsteins: comparisons of bovine leukocyte adhesion deficiency carriers and noncarriers.

J Dairy Sci 82(11). S. 2517-23.

Watson, D. L.; McColl, M. L.; Davies, H. I. (1996):

Field trial of a staphylococcal mastitis vaccine in dairy herds: clinical, subclinical and microbiological assessments.

Aust Vet J 74(6). S. 447-50.

Weiher, O. (2004):

Reproduktionsraten im Auge behalten.

Nutztierpraxis Aktuell Ausgabe 8, März 2004

<http://www.ava1.de/pdf/artikel/rinder/weiher2.pdf>

Weingarte, M. (1998):

Eutergesundheitsstörungen bei der Färsen im peripartalen Zeitraum- Ätiologie, Klinik, Therapie, Ökonomie. Freie Universität Berlin. Fachbereich Veterinärmedizin, Dissertation. 123 S.

Wilson, D. J.; Gonzalez, R. N.; Hertl, J.; Schulte, H. F., et al. (2004):

Effect of clinical mastitis on the lactation curve: a mixed model estimation using daily milk weights.

J Dairy Sci 87(7). S. 2073-84.

Yagi, Y.; Shiono, H.; Chikayama, Y.; Ohnuma, A., et al. (2004):

Transport stress increases somatic cell counts in milk, and enhances the migration capacity of peripheral blood neutrophils of dairy cows.

J Vet Med Sci 66(4). S. 381-7.

Zadoks, R. N.; Allore, H. G.; Barkema, H. W.; Sampimon, O. C., et al. (2001):
Analysis of an outbreak of *Streptococcus uberis* mastitis.
J Dairy Sci 84(3). S. 590-9.