

References

- [1] Childs, T. "X disease in cattle - Saskatchewan." *Can J Comp Med* 10 (1946):316-319. Quoted by: Goens, D. “The evolution of bovine viral diarrhea: a review.” *Can Vet J.* 2002 Dec;43(12):946-54
- [2] Olafson P, MacCallum AD, Fox A. "An apparently new transmissible disease of cattle." *Cornell Vet* 36 (1946): 205-213. Quoted by: Goens, D. “The evolution of bovine viral diarrhea: a review.” *Can Vet J.* 2002 Dec;43(12):946-54
- [3] Ramsey, F. K., and Chivers, W. H. "Mucosal disease of cattle." *North American Veterinarian* (1953): 629-633. Quoted by: Goens, D. “The evolution of bovine viral diarrhea: a review.” *Can Vet J.* 2002 Dec;43(12):946-54
- [4] Underdahl NR, Grace OD, Hoerlein AB. "Cultivation in tissue culture of cytopathogenic agent from bovine mucosal disease." *Proc Soc Biol Med* 94 (1957): 795. Quoted by: Goens, D. “The evolution of bovine viral diarrhea: a review.” *Can Vet J.* 2002 Dec;43(12):946-54
- [5] Lee KM, Gillespie JH. "Propagation of virus diarrhea virus of cattle in tissue culture." *Am J Vet Res* 18 (1957): 952. Quoted by: Goens, D. “The evolution of bovine viral diarrhea: a review.” *Can Vet J.* 2002 Dec;43(12):946-54
- [6] Gillespie JH, Baker JA, McEntee K. "A cytopathogenic strain of virus diarrhea virus." *Cornell Vet* 50 (1960): 73-79. PubMed Quoted by: Goens, D. “The evolution of bovine viral diarrhea: a review.” *Can Vet J.* 2002 Dec;43(12):946-54
- [7] Coggins L, Gillespie JH, Robson DS, et al. "Attenuation of virus diarrhea virus (Strain Oregon C24V) for vaccine purposes." *Cornell Vet* 51 (1961): 539-545. PubMed Quoted by: Goens, D. “The evolution of bovine viral diarrhea: a review.” *Can Vet J.* 2002 Dec;43(12):946-54
- [8] Johnson DW, Muscoplat CC. "Immunologic abnormalities in calves with chronic bovine viral diarrhea." *Am J Vet Res* 34 (1973): 1139-1141. PubMed Quoted by: Goens, D. “The evolution of bovine viral diarrhea: a review.” *Can Vet J.* 2002 Dec;43(12):946-54
- [9] Brownlie J, Clarke MC, Howard CJ. "Experimental production of fatal mucosal disease in cattle." *Vet Rec* 114 (1984): 535-536. PubMed
- [10] Collett MS, Larson R, Belzer SK, Retzel E. "Proteins encoded by bovine viral diarrhea virus: the genomic organization of a pestivirus." *Virology* 165.1 (1988): 200-208. PubMed
- [11] Wengler, G. "Family Flaviviridae. "Classification and nomenclature of viruses: Fifth Report of the International Committee on Taxonomy of Viruses; Ed. Franki, R. I. B., Fauquet, C. M. Knudson, D. L. & Brown Berlin: Springer Verlag, 1991. 223-233.
- [12] Carman S, van Dreumel T, Ridpath J, et al. "Severe acute bovine viral diarrhea in Ontario, 1993-1995." *J Vet Diagn Invest* 10 (1998): 27-35. PubMed
- [13] Ridpath JF, Bolin SR, Dubovi EJ. "Segregation of bovine viral diarrhea virus into genotypes." *Virology* 205 (1994): 66-74. PubMed
- [14] Wolf G. "BVD/MD als Herdenproblem." ITB-Schriftenreihe München: Verlag Hieronymus, 1997
- [15] Wentink GH, Dijkhuizen AA. "Economic consequences of an infection with the bovine diarrhea virus (BVD virus) in 15 dairy farms." *Tijdschr Diergeneeskdt.* 115.22 (1990): 1031-1040. PubMed
- [16] Stelwagen J, Dijkhuizen AA. "BVD outbreak can be costly: a case report." *Tijdschr Diergeneeskdt.* 123.9 (1998): 283-286. PubMed
- [17] Chi J, VanLeeuwen JA, Weersink A, Keefe GP. "Direct production losses and treatment costs from bovine viral diarrhoea virus, bovine leukosis virus, *Mycobacterium avium* subspecies paratuberculosis, and *Neospora caninum*." *Prev Vet Med.* 55.2 (2002): 137-153. PubMed
- [18] Gunn GJ, Stott AW, Humphry RW. "Modelling and costing BVD outbreaks in beef herds." *Vet J.* 167.2 (2004): 143-149. PubMed

- [19] Harkness JW. "The control of bovine viral diarrhoea virus infection." Ann Rech Vet. 18.2 (1987): 167-174. PubMed
Quoted by: University of Reading, Department of Agricultural and Food Economics
(<http://www.apd.rdg.ac.uk/AgEcon/livestockdisease/cattle/bvd.htm>)
- [20] Spedding CRW, Bennett RM, Done JT. "Control of BVDV: A case for SCBA?." CEC Program of Coordination of Research on Animal Husbandry Brussels, Belgium: 1987. 253-273. Quoted by: University of Reading, Department of Agricultural and Food Economics (<http://www.apd.rdg.ac.uk/AgEcon/livestockdisease/cattle/bvd.htm>)
- [21] Novartis. "The Fundamentals of BVD" (<http://www.livestock.novartis.com>) and reference therein
- [22] Houe H. "Economic impact of BVDV infection in dairies." Biologicals 31.2 (2003): 137-143. PubMed … and references therein
- [23] Niskanen R, Emanuelson U, Sundberg J, Larsson B, Alenius S. "Effects of infection with bovine virus diarrhoea virus on health and reproductive performance in 213 dairy herds in one county in Sweden." Prev. Vet. Med. 23.3 - 4 (1995): 229-237. PubMed
- [24] University of Prince Edward Island. "Relationship between milk production and subclinical infection with bovine viral diarrhoea virus at the herd level in Maritime dairy herds." Unpublished report. Quoted by: [17]
- [25] Bennett RM, Christiansen K, Clifton-Hadley RS. "Modelling the impact of livestock diseases on production - case studies of non-notifiable diseases of farm animals in Great Britain." Animal Science 68 (1999): 681-689. Quoted by: [17]
- [26] Rufenacht J, Schaller P, Audige L, Knutti B, Kupfer U, Peterhans E. "The effect of infection with bovine viral diarrhea virus on the fertility of Swiss dairy cattle." Theriogenology 56.2 (2001): 199-210. PubMed
- [27] Kelling CL. "Evolution of bovine viral diarrhea virus vaccines." Vet Clin North Am Food Anim Pract. 20.1 (2004): 115-129. PubMed
- [28] Barber DM, Nettleton PF, Herring JA. "Disease in a dairy herd associated with the introduction and spread of bovine virus diarrhoea virus." Vet Rec. 117.18 (1985): 459-464. PubMed
- [29] BVET, 2005
- [30] Becher P, Orlich M, Shannon AD, Horner G, Konig M, Thiel HJ. "Phylogenetic analysis of pestiviruses from domestic and wild ruminants." J Gen Virol. 78.6 (1997): 1357-1366. PubMed
- [31] van Rijn PA, van Gennip HG, Leendertse CH, Bruschke CJ, Paton DJ, Moormann RJ, van Oirschot JT. "Subdivision of the pestivirus genus based on envelope glycoprotein E2." Virology 237.2 (1997): 337-348. PubMed
- [32] Nakamura S, Sakamoto K, Sakoda Y, Shimazaki T, Inoue Y, Ogawa N, Fukusho A. "Variation from cytopathogenic biotype to non-cytopathogenic biotype is correlated with the deletion of cellular sequence from bovine viral diarrhea viruses." J Vet Med Sci. 59.5 (1997): 361-370. PubMed
- [33] Tautz N, Elbers K, Stoll D, Meyers G, Thiel HJ. "Serine protease of pestiviruses: determination of cleavage sites." J Virol. 71.7 (1997): 5415-5422. PubMed
- [34] Boulanger D, Waxweiler S, Karelle L, Loncar M, Mignon B, Dubuisson J, Thiry E, Pastoret PP. "Characterization of monoclonal antibodies to bovine viral diarrhoea virus: evidence of a neutralizing activity against gp48 in the presence of goat anti-mouse immunoglobulin serum." J Gen Virol. 72.5 (1991): 1195-1198. PubMed
- [35] Harada T, Tautz N, Thiel HJ. "E2-p7 region of the bovine viral diarrhea virus polyprotein: processing and functional studies." J Virol. 74.20 (2000): 9498-9506. PubMed
- [36] Wiskerchen M, Belzer SK, Collett MS. "Pestivirus gene expression: the first protein product of the bovine viral diarrhea virus large open reading frame p20, possesses proteolytic activity." J. Virol. 65.8 (1991): 4508-4514. PubMed
- [37] Rümenapf T, Unger G, Strauss JH, Thiel HJ. "Processing of the envelope glycoproteins of pestiviruses." J Virol. 67.6 (1993): 3288-3294. PubMed
- [38] Gu B, Liu C, Lin-Goerke J, Maley DR, Gutshall LL, Feltenberger CA, Del Vecchio AM. "The RNA helicase and nucleotide triphosphatase activities of the bovine viral diarrhea virus NS3 protein are essential for viral replication." J Virol. 74.4 (2000): 1794-1800. PubMed
- [39] Becher P, Thiel HJ, Collins M, Brownlie J, Orlich M. "Cellular Sequences in Pestivirus Genomes Encoding Gamma-

Aminobutyric Acid (A) Receptor-Associated Protein an Golgi-Associated ATPase Enhancer of 16 Kilodaltons." J Virol. 76.24 (2002): 13069-13076. PubMed

[40] Agapov EV, Murray CL, Frolov I, Qu L, Myers TM, Rice CM. "Uncleaved NS2-3 Is Required for Production of Infectious Bovine Viral Diarrhea Virus." J Virol. 78.5 (2004): 2414-2425. PubMed

[41] Qu L, McMullan LK, Rice CM. "Isolation and characterization of noncytopathic pestivirus mutants reveals a role for nonstructural protein NS4B in viral cytopathogenicity." J Virol. 75.22 (2001): 10651-10662. PubMed

[42] Maurer, K. "Identifizierung eines zellulären Rezeptors für das Virus der bovinen viralen Diarrhöe (BVDV): Reinigung, Klonierung und Expression des bovinen CD46 (MCP)." Institut für Virologie Giessen: Justus-Liebig-Universität, 2002.

[43] Naniche D, Varior-Krishnan G, Cervoni F, Wild TF, Rossi B, Rabourdin-Combe C, Gerlier D. "Human membrane cofactor protein (CD46) acts as a cellular receptor for measles virus." J Virol. 67.10 (1993): 6025-6032. PubMed

[44] Santoro F, Kennedy PE, Locatelli G, Malnati MS, Berger EA, Lusso P. "CD46 is a cellular receptor for human herpesvirus 6." Cell. 99.7 (1999): 817-827. PubMed

[45] Kallstrom H, Liszewski MK, Atkinson JP, Jonsson AB. "Membrane cofactor protein (MCP or CD46) is a cellular pilus receptor for pathogenic Neisseria." Mol Microbiol. 25.4 (1997): 639-647. PubMed

[46] Okada N, Liszewski MK, Atkinson JP, Caparon M. "Membrane cofactor protein (CD46) is a keratinocyte receptor for the M protein of the group A streptococcus." Proc Natl Acad Sci U S A 92.7 (1995): 2489-2493. PubMed

[47] Agnello V, Abel G, Elfahal M, Knight GB, Zhang QX. "Hepatitis C virus and other flaviviridae viruses enter cells via low density lipoprotein receptor." Proc Natl Acad Sci U S A 96.22 (1999): 12766-12771. PubMed

[48] Xue W, Minocha HC. "Identification of the cell surface receptor for bovine viral diarrhoea virus by using anti-idiotypic antibodies." J Gen Virol. 74.1 (1993): 73-79. PubMed

[49] Grummer B, Grotha S, Greiser-Wilke I. "Bovine viral diarrhoea virus is internalized by clathrin-dependent receptor-mediated endocytosis." J Vet Med B Infect Dis Vet Public Health 51.10 (2004): 427-432. PubMed

[50] Fields Virology, 3. Edition (1996), Chapter 30 (The Pestiviruses)

[51] Bayerisches Landesamt für Gesundheit und Lebensmittelsicherheit. " Bovine Virusdiarrhoe/Mucosal Disease (BVD/MD)." 2004.

[52] Liess B, Frey HR, Trautwein G, Peters W. "Frequency of appearance of persistent BVD virus infections and their effects on the cattle population." Dtsch Tierärztl Wochenschr. 94.10 (1987): 583-585. PubMed

[53] Falcone E, Cordioli P, Sala G, Tarantino M, Tollis M. "Genotyping of bovine viral diarrhoea viruses isolated from cattle in northern Italy." Vet Res Commun. 25.2 (2001): 161-167. PubMed

[54] Houe H. "Epidemiological features and economical importance of bovine virus diarrhoea virus (BVDV) infections." Vet Microbiol. 64.2 - 3 (1999): 89-107. PubMed

[55] Vega S, Bayon M C, Jiminez T, Asensio A, Mirat F, Cid D, de la Fuente R. "Prevalence of bovine viral diarrhoea virus in the cattle population of Comunidad de Madrid (Spain)." Ed. Edwards S, Paton D J, Wensvoort G: 3rd ESVV Symp Pestivirus Infections, Lelystad, The Netherlands: 1997. 116-119.

[56] Paton DJ, Christiansen KH, Alenius S, Cranwell MP, Pritchard GC, Drew TW. "Prevalence of antibodies to bovine virus diarrhoea virus and other viruses in bulk tank milk in England and Wales." Vet Rec. 142.15 (1998): 385-391. PubMed

[57] Beer M, Wolf G. "Selection of BVDV genotype II isolates using a monoclonal antibody and FACS analysis." Berl Munch Tierarztl Wochenschr. 112.9 (1999): 345-350. PubMed

[58] Barkema HW, Bartels CJ, van Wuijckhuise L, Hesselink JW Holzhauer M, Weber MF, Franken P, Kock PA, Bruschke CJ, Zimmer GM. "Outbreak of bovine virus diarrhea on Dutch dairy farms induced by a bovine herpesvirus 1 marker vaccine contaminated with bovine virus diarrhea virus type 2." Tijdschr Diergeneesk. 126.6 (2001): 158-165. PubMed

[59] Letellier C, Kerkhofs P, Wellemans G, Vanopdenbosch E. "Detection and genotyping of bovine diarrhea virus by reverse transcription-polymerase chain amplification of the 5' untranslated region." Vet Microbiol. 64.2 - 3 (1999): 155-

167. PubMed

- [60] Traven M, Alenius S, Fossum C, Larsson B. "Primary bovine viral diarrhoea virus infection in calves following direct contact with a persistently viraemic calf." *Zentralbl Veterinarmed B.* 38.6 (1991): 453-462. PubMed
- [61] Meyling A, Jensen AM. "Transmission of bovine virus diarrhoea virus (BVDV) by artificial insemination (AI) with semen from a persistently-infected bull." *Vet Microbiol.* 17.2 (1988): 97-105. PubMed
- [62] Kirkland PD, Richards SG, Rothwell JT, Stanley DF. "Replication of bovine viral diarrhoea virus in the bovine reproductive tract and excretion of virus in semen during acute and chronic infections." *Vet Rec.* 128.25 (1991): 587-590. PubMed
- [63] Lang-Ree JR, Vatn T, Kommisrud E, Loken T. "Transmission of bovine viral diarrhoea virus by rectal examination." *Vet Rec.* 135.17 (1994): 412-413. PubMed
- [64] Gunn HM. "Role of fomites and flies in the transmission of bovine viral diarrhoea virus." *Vet Rec.* 132.23 (1993): 584-585. PubMed
- [65] Niskanen R, Lindberg A. "Transmission of bovine viral diarrhoea virus by unhygienic vaccination procedures, ambient air, and from contaminated pens." *Vet J.* 165.2 (2003): 125-130. PubMed
- [66] Bolin SR, Matthews PJ, Ridpath JF. "Methods for detection and frequency of contamination of fetal calf serum with bovine viral diarrhea virus and antibodies against bovine viral diarrhea virus." *J Vet Diagn Invest.* 3.3 (1991): 199-203. PubMed
- [67] Tarry DW, Bernal L, Edwards S. "Transmission of bovine virus diarrhoea virus by blood feeding flies." *Vet Rec.* 128.4 (1991): 82-84. PubMed
- [68] Bitsch V, Ronsholt L. "Control of bovine viral diarrhea virus infection without vaccines." *Vet Clin North Am Food Anim Pract.* 11.3 (1995): 627-640. PubMed
- [69] Mars MH, Bruschke CJ, van Oirschot JT. "Airborne transmission of BHV1, BRSV, and BVDV among cattle is possible under experimental conditions." *Vet Microbiol.* 66.3 (1999): 197-207. PubMed
- [70] Braun U, Schönmann M, Ehrensperger F, Hilbe M, Strasser M. "Intrauterine infection with Bovine Virus Diarrhea virus on alpine communal pastures in Switzerland." *Zentralbl. Veterinärmed. A* 46.1 (1999): 13-17. Pubmed
- [71] Greiser-Wilke I, Grummer B, Moennig V. "Bovine viral diarrhoea eradication and control programmes in Europe." *Biologicals* 31.2 (2003): 113-118. PubMed
- [72] Lindberg AL, Alenius S. "Principles for eradication of bovine viral diarrhoea virus (BVDV) infections in cattle populations." *Vet Microbiol.* 64.2 - 3 (1999): 197-222. PubMed
- [73] Collen T, Morrison WI. "CD4(+) T-cell responses to bovine viral diarrhoea virus in cattle." *Virus Res.* 67.1 (2000): 67-80. PubMed
- [74] Howard CJ, Clarke MC, Sopp P, Brownlie J. "Immunity to bovine virus diarrhoea virus in calves: the role of different T-cell subpopulations analysed by specific depletion in vivo with monoclonal antibodies." *Vet Immunol Immunopathol.* 32.3 - 4 (1992): 303-314. PubMed
- [75] Donis RO. "Molecular biology of bovine viral diarrhea virus and its interactions with the host." *Vet Clin North Am Food Anim Pract.* 11.3 (1995): 393-423. PubMed
- [76] Lambot M, Douart A, Joris E, Letesson JJ, Pastoret PP. "Characterization of the immune response of cattle against non-cytopathic and cytopathic biotypes of bovine viral diarrhoea virus." *J Gen Virol.* 78.5 (1997): 1041-1047. PubMed
- [77] Munoz-Zanzi CA, Thurmond MC, Johnson WO, Hietala SK. "Predicted ages of dairy calves when colostrum-derived bovine viral diarrhea virus antibodies would no longer offer protection against disease or interfere with vaccination." *J Am Vet Med Assoc.* 221.5 (2002): 678-685. PubMed
- [78] Schelp C, Greiser-Wilke I. "BVD diagnosis: an overview." *Berl Munch Tierarztl Wochenschr.* 116.5 - 6 (2003): 227-233. PubMed
- [79] "Easy and reliable detection of Bovine Viral Diarrhea Virus." Electronic Source: <http://www.idexx.com>

- [80] Potgieter LN. "Immunology of bovine viral diarrhea virus." *Vet Clin North Am Food Anim Pract.* 11.3 (1995): 501-520. PubMed
- [81] Chase CC, Elmowalid G, Yousif AA. "The immune response to bovine viral diarrhea virus: a constantly changing picture." *Vet Clin North Am Food Anim Pract.* 20(1) (2004): 95-114. PubMed
- [82] Brownlie J, Clarke MC, Howard CJ, Pocock DH. "Pathogenesis and epidemiology of bovine virus diarrhoea virus infection of cattle." *Ann Rech Vet.* 18.2 (1987): 157-166. PubMed
- [83] Brodersen BW, Kelling CL. "Effect of concurrent experimentally induced bovine respiratory syncytial virus and bovine viral diarrhea virus infection on respiratory tract and enteric diseases in calves." *Am J Vet Res.* 59.11 (1998): 1423-1430. PubMed
- [84] Brownlie J. "The pathways for bovine virus diarrhoea virus biotypes in the pathogenesis of disease." *Arch Virol Suppl.* 3 (1991): 79-96. PubMed
- [85] Sentsui H, Nishimori T, Kirisawa R, Morooka A. "Mucosal disease induced in cattle persistently infected with bovine viral diarrhea virus by antigenically different cytopathic virus." *Arch Virol.* 146.5 (2001): 993-1006. PubMed
- [86] Fritzemeier J, Haas L, Liebler E, Moennig V, Greiser-Wilke I. "The development of early vs. late onset mucosal disease is a consequence of two different pathogenic mechanisms." *Arch Virol.* 142.7 (1997): 1335-1350. PubMed
- [87] "Vademecum IVV." Electronic Source: <http://www.dlvb.unibe.ch>
- [88] Saliki JT, Dubovi EJ. "Laboratory diagnosis of bovine viral diarrhea virus infections." *Vet Clin North Am Food Anim Pract.* 20.1 (2004): 69-83. PubMed
- [89] Zimmer GM, Van Maanen C, De Goey I, Brinkhof J, Wentink GH. "The effect of maternal antibodies on the detection of bovine virus diarrhoea virus in peripheral blood samples." *Vet Microbiol.* 100.3 - 4 (2004): 145-149. PubMed
- [90] Frey HR, Eicken K, Moennig V, Flebbe U. "Untersuchungen zur Sicherheit und zum Antikörperverlauf nach Vakzination tragender Rinder mit einem temperatursensitiven BVD-Vakzine-Virus (Rispoval BVD/MD)." *Praktischer Tierarzt* 80.11 (1999): 996-1004.
- [91] Lobmann M, Charlier P, Klaassen CL, Zygraich N. "Safety of a temperature-sensitive vaccine strain of bovine viral diarrhea virus in pregnant cows." *Am J Vet Res.* 47.3 (1986): 557-560. PubMed
- [92] Patel JR, Shilleto RW, Williams J, Alexander DC. "Prevention of transplacental infection of bovine foetus by bovine viral diarrhoea virus through vaccination." *Arch Virol.* 147.12 (2002): 2453-2463. PubMed
- [93] Vilcek S, Drew TW, McGoldrick A, Paton DJ. "Genetic typing of bovine pestiviruses from England and Wales." *Vet Microbiol.* 69.4 (1999): 227-237. PubMed
- [94] Vilcek S, Paton DJ, Durkovic B, Strojny L, Ibata G, Moussa A, Loitsch A, Rossmanith W, Vega S, Scicluna MT, Paifi V. "Bovine viral diarrhoea virus genotype 1 can be separated into at least eleven genetic groups." *Arch Virol.* 146.1 (2001): 99-115. PubMed