# References in order of appearance

1. Brunauer, M., Roch, F.-F., & Conrady, B. (2021). Prevalence of worldwide neonatal calf diarrhoea caused by bovine rotavirus in combination with bovine coronavirus, escherichia coli K99 and cryptosporidium spp.: A meta-analysis. Animals, 11(4), 1014. https://doi.org/10.3390/ani11041014

2. National Youngstock Survey (2020)

3. Gulliksen, S., Jor, E., Lie, K., Løken, T., Åkerstedt, J., & Østerås, O. (2009). Respiratory infections in Norwegian dairy calves.Journal of Dairy Science,92(10), 5139–5146.https://doi.org/10.3168/jds.2009-2224

4. Pardon, B., Hostens, M., Duchateau, L., Dewulf, J., De Bleecker, K., & Deprez, P. (2013). Impact of respiratory disease, diarrhea, otitis and arthritis on mortality and carcass traits in white veal calves. BMC Veterinary Research, 9(1), 79. https://doi.org/10.1186/1746-6148-9-79

5. Heinrichs AJ, Radostits OM (2001) Health and production management of dairy calves and replacement heifers. In: Radostits OM, editor: Herd Health Food Animal Production Medicine 3rd ed. Philadelphia: WB Saunders. pp. 333-473.

6. USDA (1997) Beef, Part II: Reference of Beef Cow-Calf Health & Health Management Practices. USDA-APHISVS,CEAH. National Animal Health Monitoring System, Fort Collins, CO.

7. Couture Y, Major RR (1989) Resultats sur la mortalite des veaux de type boucherie de la region Abitibi-Temiscamingue. Les principaux problemes de sante chez le veau. Quebec: Ministere de l'Agriculture, des Pecheries et de l'Alimentation du Quebec.

8. Schmoldt P, Bilnger U, Pongk J, Kleiner W, Brade W, Motsch T,Kaphengst P, Rotermund H (1979) Einfluss van Erkrankungen auf die Zuwachsleistung sowie die Nahrstoffaufnahme und-verwertung von Trankkalbern. [Effects of diseases on growth, nutrient intake, and nutrient conversion comparison in drinking calf.] Monatsh Veterinaemed; 34: 95.

9. Waltner-Toews D, Martin SW, Meek AH (1986) The effect of early calfhood health status on survivorship and age at first calving. Can J Vet Res; 50(3): 314-7.

10. Correa MT, Curtis CR, Erb HN, White ME. (1988) Effect of calfhood morbidity on age at first calving in New York Holstein herds. Prev Vet Med; 6: 253-62.

11. Hoffman PC, Funk DA (1992) Applied Dynamics of Dairy Replacement Growth and Management. J Dairy Sci; 75(9): 2504-16.

12. Wittum TE, Salman MD, Odde KG, Mortimer RG, King ME (1993) Causes and costs of calf mortality in Colorado beef herds participating in the National Animal Health Monitoring System. J Am Vet Med Assoc; 203: 232–6.

13. Ganaba RC, Bigras-Poulin M, Bdlanger D, Couture Y (1995) Description of cow-calf productivity in Northwestern Quebec and path models for calf mortality and growth Prev Vet Med; 24 (3): l-42.

14. Virtala AMK, Mechor GD, Gröhn YT (1996) The effect of calfhood diseases on growth of female dairy calves during the first 3 months of life in New York State. J Dairy Sci; 79: 1040-9.

15. Donovan GA, Dohoo IR, Montgomery DM, Bennett FL (1998) Calf and disease factors affecting growth in female Holstein calves in Florida, USA. Prev Vet Med; 33: 1 - 10.

16. Gunn GJ and Stott AW (1998) A comparison of economic losses due to calf enteritis and calf pneumonia in Scottish herds. In: Caple IW, editor. Procc XX World Buiatrics Congress. jul 6-10; Sidney, Australia: pp. 357-60.

17. Svensson C, Lundborg K, Emanuelson U, Olsson SO (2003) Morbidity in Swedish dairy calves from birth to 90 days of age and individual calf-level risk factors for infectious diseases. Prev Vet Med; 58: 179-97.

18. Svensson C, Hultgren J (2008) Associations Between Housing, Management, and Morbidity During Rearing and Subsequent First-Lactation Milk Production of Dairy Cows in Southwest Sweden. J Dairy Sci; 91: 1510–18.

19. Gulliksen SM, Lie KI, Løken T, Osterås O (2009) Calf mortality in Norwegian dairy herds. J Dairy Sci; 92(6): 2782-95.

20. Soberon F, Raffrenato E, Everett RW, van Amburg ME (2009) Early life management and long term productivity of dairy calves. Procc Joint Annual Meeting ADSA-CSAS-ASAS p. 130.

21. A Practical Guide to Diagnosis, Bovine Neonatal Diarrhea, MSD Animal Health.

22. De la Fuente R, Luzon M, Ruiz-Santa-Quiteria JA, Garcia A, Cid D, Orden JA, Garcia S, Sanz R, Gomez-Bautista M (1999) *Cryptosporidium* and concurrent infections with other major enterophatogens in 1 to 30-day-old diarrheic dairy calves in central Spain. Vet Parasitol; 80: 179-85.

23. Shaw, H. J:, Innes, E. A., Morrison, L. J., Katzer, F., & Wells, B. (2020). Long-term production effects of clinical cryptosporidiosis in neonatal calves. Internation Journal for Parasitology, 50(5), 371-376. https://doi.org/10.1016/j.ijpara.2020.03.002

24. Gong 2017

25. Trotz-Williams 2008

26. MSD Animal health, prevalence study C. parvum, WBC congress 2018

27. Smith 2014

28. Thompson 2017

29. Silverlas 2009

30. Maddox-Hyttel 2006

31. Kaupke 2015

32. Delafosse 2015

33. MSD Animal health, prevalence study *C. parvum*, WBC congress 2018

34. Soltane 2007

**35.** Singh 2006

**36.** Lombardelli 2019

**37.** McAllister, T. A., Olson, M. E., Fletch, A., Wetzstein, M., & Entz, T. (2005). Prevalence of Giardia and Cryptosporidium in beef cows in southern Ontario and in beef calves in southern British Columbia. *Can Vet J*, *46*, 47–55.

**38.** Atwill, E. R., Johnson, E., & Pereira, M. O. (1999). Association of herd composition, stocking rate, and duration of calving season with fecal shedding of Cryptosporidium parvum oocysts in beef herds. *PubMed*, *215*(12), 1833–1838. https://pubmed.ncbi.nlm.nih.gov/10613218

**39.** Scott, C. A., Smith, H. A., Mtambo, M., & Gibbs, H. (1995). An epidemiological study of Cryptosporidium parvum in two herds of adult beef cattle. *Veterinary Parasitology*, *57*(4), 277–288. https://doi.org/10.1016/0304-4017(94)00694-8

**40.** Castro-Hermida, J. A., González-Losada, Y. A., & Ares-Mazás, E. (2002). Prevalence of and risk factors involved in the spread of neonatal bovine cryptosporidiosis in Galicia (NW Spain). *Veterinary Parasitology*, *106*(1), 1–10. https://doi.org/10.1016/s0304-4017(02)00036-5

**41.** Rieux, A., Paraud, C., Pors, I., & Chartier, C. (2013). Molecular characterization of Cryptosporidium isolates from pre-weaned calves in western France in relation to age. *Veterinary Parasitology*, *197*(1–2), 7–12. https://doi.org/10.1016/j.vetpar.2013.05.001

**42.** Chae, J., Kim, H., Kang, J., Choi, K., Chae, J., Yu, D., Park, B., Oh, Y., Choi, H. J., & Park, J. (2021). The prevalence of causative agents of calf diarrhea in Korean native calves. *Journal of Animal Science and Technology*, *63*(4), 864–871. https://doi.org/10.5187/jast.2021.e63

**43.** Zambriski, J. A., Nydam, D. V., Wilcox, Z., Bowman, D. D., Mohammed, H. A., & Liotta, J. L. (2013). Cryptosporidium parvum: Determination of ID50 and the dose–response relationship in experimentally challenged dairy calves. Veterinary Parasitology, 197(1–2), 104–112. https://doi.org/10.1016/j.vetpar.2013.04.022

**44.** Nydam, D. V., Wade, S. E., Schaaf, S. L., & Mohammed, H. O. (2001). Number of Cryptosporidium parvum oocysts or Giardia spp cysts shed by dairy calves after natural infection. American Journal of Veterinary Research, 62(10), 1612–1615. https://doi.org/10.2460/ajvr.2001.62.1612

**45.** Santín, M. (2020). Cryptosporidium and Giardia in Ruminants. Veterinary Clinics of North America-food Animal Practice, 36(1), 223–238. https://doi.org/10.1016/j.cvfa.2019.11.005

**46.** Thomson, S., Hamilton, C., Hope, J., Katzer, F., Mabbott, N. A., Morrison, L.., & Innes, E. A. (2017) Bovine cryptosporidiosis: impact, host-parasite interaction and control strategies. Veterinary Research, 48(1). https://doi.org/10.1186%2Fs13567-017-0447-0

**47.** Rahman, S. U., Mi, R., Zhou, S., Gong, H., Ullah, M., Huang, Y., Han, X., & Chen, Z. (2021) Advances in therapeutic and vaccine targets for cryptosporidium: Challenges and possible migration strategies. *Acta Tropica*, 226, 106273. https://doi.org/10.1016/j.actatropica.2021.106273