

Complete bibliography

1. Lombard JE, Garry FB, Tomlinson SM, Garber LP. Impacts of dystocia on health and survival of dairy calves. *J Dairy Sci* 2007;90:1751-60.
2. Zaborski D, Grzesiak W, Szatkowska I. Factors affecting dystocia in cattle. *Reprod Dom Anim* 2009;44:540-51.
3. Uzamy C, Kaya I, Ayyilmaz T. Analysis of risk factors for dystocia in a Turkish Holstein herd. *J Anim Vet Advances* 2010;9:2571-7.
4. Meijering A. Dystocia and stillbirth in cattle: a review of causes, relations and implications *Livestock Prod Sci* 1984;11:413-77.
5. Rajala PJ, Grohn YT. Effects of dystocia, retained placenta and metritis on milk yield in dairy cows. *J Dairy Sci* 1998;81:3172-81.
6. Berry DP, Lee JM, Macdonald KA, Roche JR. Body condition score and body weight effects on dystocia and stillbirths and consequent effects on post calving performance. *J Dairy Sci* 2007;90:4201-11.
7. Dematawewa CMB, Berger PJ. Effect of dystocia on milk yield, fertility and cow losses and an economic evaluation of dystocia scores for Holstein cows. *J Dairy Sci* 1997;80:754-61.
8. Gaafar HMA, Shamiah SM, El-Hand MAA, et al. Dystocia in Friesian cows and its effects on postpartum reproductive performances and milk production. *Trop Anim Health Prod* 2011;43:229-34.
9. Berger PJ, Cubas AC, Kochler KJ, Healey MH. Factors affecting dystocia and early calf mortality in Angus multiparous cows and primiparous cows. *J Anim Sci* 1992;70:1775-86.
10. Casas E, Thallman RM, Cundiff LV. Birth and weaning traits in crossbred cattle from Hereford, Angus, Brahman, Boran, Tuli and Belgian Blue sires. *J Anim Sci* 2011;89: 979-87.
11. Jainudeen MR. Reproduction in the water buffalo. In: Morrow DA. Current therapy in Theriogenology. Philadelphia: WB Saunders Company; 1986. pp. 443-449.
12. Kaushik SK, Mathur AC. Time of parturition and incidences of calving abnormalities in Murrah buffaloes. *Indian J Anim Sci* 2005;75:227-8.
13. Khan HM, Bhakat M, Mohanty TK, et al. Peripartum reproductive disorders in buffaloes - an overview. *Vet Scan* 2009;4:1-10.

14. Kodagali SB. Notes on Applied Bovine Reproduction. Part II. In: Kodagali SB. Bovine Obstetrics. Anand, Gujarat, India: Indian Society for Study of Animal Reproduction; 2003.
15. Agarwal SK, Tomer OS. Reproductive Technologies in the buffalo. Izatnagar, India: Indian Veterinary Research Institute Karnal India; 1998.
16. Mody M, Chauhan RAS, Shukla SP. Process of parturition in buffaloes. Indian J Anim Reprod 2002;23:141-3.
17. Ramasamy M, Singh M. A comparative study on normal and abnormal parturition in Karan fries cattle and Murrah buffaloes. In: Reproductive technologies for augmentation of fertility in livestock: Annual convention and national symposium, Nov.14-16,2002. Izatnagar: IVRI; 2002. pp148-149.
18. Bendixen PH, Vilson B, Ekesbo I, Ekstrand DB. Disease frequencies in Swedish dairy cows. I Dystocia. Prev Vet Med 1986;4:307-16.
19. Johanson JM, Berger PJ. Birth weight as a predictor of calving ease and perinatal mortality in Holstein cattle. J Dairy Sci 2003;86:3745-55.
20. Mee JF, Berry DP, Cromie AR. Risk factors for calving assistance and dystocia in pasture-based Holstein Friesian heifers and cows in Ireland. Vet J 2011;187:189-94.
21. Holland MD, Speer NC, Lefever DG. Factors contributing to dystocia due to fetal malpresentation in beef cattle. Theriogenol 1993;39:899-908.
22. Nix JM, Spitzer JC, Grimes LW, et al. A retrospective analysis of factors contributing to calf mortality and dystocia in beef cattle. Theriogenol 1998;49:1515-23.
23. Sloss V, Johnston DE. The causes and treatment of dystocia in beef cattle in Western Victoria. Aust Vet J 1967;43:13- 20.
24. Majeed AF, Ali JB, Taha MB. A preliminary study on dystocia in local breed Iraqi cattle. Prev Vet Med 1989;7:219-23.
25. Ximenes FHB, Leite CR, Moscardini ARC, et al. Retrospective study of cases of dystocia in cattle at Veterinary Hospital of University of Brasilia from 2002 to 2009. Available from: <http://www.originalprocess.it/wbc2010/AbstractCD/pdf/1196.pdf>
26. Phogat JB, Bugalia NS, Gupta SL. Incidence and treatment of various forms of dystocia in buffaloes. Indian J Anim Reprod 1992;13:69-70.
27. Purohit GN, Mehta JS. Dystocia in cattle and buffaloes. A retrospective analysis of 156 cases. Vet Practitioner 2006;7:31-4.

28. Ali AM. Studies on calving related disorders (dystocia, uterine prolapse and retention of fetal membranes) of the river buffalo (*Bubalus bubalis*) in different agro ecological zones of Punjab Province Pakistan. PhD Thesis Univ of Agic Pakistan. 2008. Available from: prr.hec.gov.pk/Thesis/203S.pdf
29. Smith GM, Laster DB, Gregory KE. Characterization of biological types of cattle 1. Dystocia and preweaning growth. *J Anim Sci* 1976;43:27-36.
30. Nelson LA, Beavers GD. Beef X beef and dairy X beef females mated to Angus and Chorolais sires. I Pregnancy rate, dystocia and birth weight. *J Anim Sci* 1982;54:1138-49.
31. Van Wagoner HC, Ansotegui RP, Ropp MD, Lipsey RJ. The ease of heifers bred to Angus and Simmental sires selected for decreased dystocia. *Proc Western Section Am Soc Anim Sci* 2003;54:23-8.
32. Mc Clintock S, Poole R, Beard K, Goddard M. Cross breeding in dairy cattle: The effect on calving ease. Proceedings SLU. 2004. Available from: <http://www-interbull.slu.se/bulletins/bulletin32/McClintock.pdf>
33. Mee JF. Prevalence and risk factors for dystocia in dairy cattle: A review. *Vet J* 2008;176:93-101.
34. Rutter LM, Ray DE, Roubicek CB. Factors affecting and prediction of dystocia in Charolais heifers. *J Anim Sci* 1983;57:1077-83.
35. Hickson RE, Morris ST, Kenyon PR, Lopez-villalobos N. Dystocia in beef heifers: a review of genetic and nutritional influences. *N Z Vet J* 2006; 54: 256-64.
36. Price TD, Wiltbank JN. Dystocia in cattle a review and implications. *Theriogenol* 1978;9:195-219.
37. Anderson P. Minimizing calving difficulty in beef cattle. 1992. Available from: <http://www.thebeefsite.com/arm/cattle/minimizing/calving/difficulty/in/beef/cattle>.
38. Bellows RA, Genho PC, Moore SA, Chase CC. Factors affecting dystocia in Brahman cross heifers in sub tropical South Eastern United States. *J Anim Sci* 1996;74:1451-6.
39. Paschal JC, Sanders JO, Kerr JL. Calving and weaning characteristics of Angus, Gray Brahman, Gir, Indu-Brazil, Nellore and Red-Brahman sired F calves. *J Anim Sci* 1991;69:2395-402.
40. Meyer CL, Berger PJ, Koehler KJ, et al. Phenotypic trends in incidence of still birth for Holstein in the United States. *J Dairy Sci* 2001;84:515-23.
41. Ettema JF, Santos JEP. Impact of age at calving on lactation, reproduction health and income in first parity Holstein on commercial farms. *J Dairy Sci* 2004;87:2730-42.

42. Ritchie HD, Anderson PT. Calving difficulty in Beef cattle: Part I. 2011. Available from:
<http://www.iowabeefcenter.org>
43. Khammas DJ, Al-Hamedawi TM. Clinical investigation of bovine dystocia in Iraq. Indian Vet J 1994;71:464-8.
44. Wehrend A, Reinic T, Herfen K, Bostedt H. Fetotomy in cattle with special references to post operative complications: an evaluation of 131 cases. Dtsch Tierarztl Wochenschr 2002;109:56-61.
45. Bennett GL, Gregory KE. Genetic (co) variances for calving difficulty score in composite and parental populations of beef cattle: 1. Calving difficulty score, birth weight, weaning weight and postweaning gain. J Anim Sci 2001;79:45-51.
46. Garrousi TM. Effects of different factors in dystocia due to foetal disposition. 23rd World Buiatrics Congr Canada. 2004. pp 1598. Available from:http://www.ivis.org/proceedings/wbc/wbc2_004/abstr_601_700.pdf
47. Youngquist RS. Parturition and dystocia. In: Youngquist RS. Current therapy in large animal theriogenology. Philadelphia: W.B. Saunders Co.;1997. pp.309-324.
48. Zhang WC, Nakao T, Moriyoshi M, et al. Relationship of maternal plasma progesterone and estrone sulfate to dystocia in Holstein Friesian heifers and calves. J Vet Med Sci 1999;61:909-13.
49. Momont H. Bovine reproductive emergencies. Vet Clin Food Anim Pract 2005;21:711-27.
50. Laster DB, Glimp HA, Cundiff LV, Gregory KE. Effects of Early Weaning on Postpartum Reproduction of Cows. J Anim Sci 1973;36:695.
51. Arthur GH, Noakes DE, Pearson H, Parkinson TJ. Veterinary Reproduction and Obstetrics. Philadelphia: W.B. Saunders Co. Limited; 1999.
52. Ménissier F. General survey of the effect of double muscling on cattle performance. In: Ménissier F, King JWB. Muscle hypertrophy of genetic origin and its use to improve beef production. The Hague: Martinus Nijhoff Publishers; 1982. pp. 23-53.
53. Fiems LO, de Campeneere W, Van Caelenbergh, Bougue CV. Relationship between dam and calf characteristics with regard to dystocia in Belgian Blue double-muscled cows. Anim Sci 2001;72:389-94.
54. Sane CR, Luktuke SN, Deshpande BR, et al. A text book of reproduction in farm animals (Theriogenology). India; Varghese Publishing House; 1982.
55. Nelson L A, Huber DA. Factors influencing dystocia in Hereford dams. J Anim Sci 1971;33:1137.

56. Cole JB, Goodling RC, Wiggams GR, van Raden PM. Genetic evaluation of calving ease for Brown swiss and Jersey bulls from purebred and crossbred calvings. *J Dairy Sci* 2005;88:1529-39.
57. Young LE, Sinclair KD, Wilmut I. Large offspring syndrome in cattle and sheep. *Rev Reprod* 1998;3:155-63.
58. Maxfield EK, Sinclair KD, Dolman DF, et al. In vitro culture of sheep embryos increases weight, primary fibre size and secondary to primary fibre ratio in fetal muscle at day 61 of gestation. *Theriogenol* 1997;47:376.
59. Hyttel P, Viuff D, Laurincik J. Risks of in vitro production of cattle and swine embryos: aberrations in chromosome numbers, ribosomal RNA gene activation and perinatal physiology. *Human Reprod* 2000;15:87-97.
60. Nanda AS, Brar PS, Prabhakar S. Enhancing reproductive performance in dairy buffalo: major constraints and achievements. *Reprod Suppl* 2003;61:27-36.
61. Srinivas M, Sreenu M, Lakshmi RN, et al. Studies on dystocia in graded Murrah buffaloes: a retrospective study in a cow. *Buff Bull* 2007;26:40-5.
62. Ocampo AR. Further studies on the breeding habbits of the carabao. *Phillip Agric* 1989;28:286-307.
63. El-Sheikh AS. The reproductive performance of the buffalo in the UAE. *Indian J Dairy Sci* 1967;20:89-95.
64. Arya VV, Desai RN. Growth rate and its relationship with weight and age at first calving in buffaloes maintained on military farms. *Indian Vet J* 1996;46:61-8.
65. Fahimuddin M. Reproduction in the water buffalo. In: Fahimuddin M. Domestic water buffalo. New Delhi: Oxford and IBH;1975. pp 227-283.
66. Tonhati H, Vasconcellos FB, Albuquerque LG. Genetic aspects of productive and reproductive traits in a Murrah buffalo herd in Sao Paulo Brazil. *J Anim Breed Genetics* 2000;117:331-6.
67. Seno LO, Cardoso VL, El Faro L, et al. Genetic parameters for milk yield, age at first calving and interval between first and second calvings in milk of Murrah buffaloes. *Livestock Res Rural Dev* 2010. Available from: <http://www.lrrd.org/lrrd22/2/seno22038.htm>
68. Thiruvenkadan AK, Panneerselvam S, Rajendran R. Non genetic and genetic factors influencing growth performance in Murrah buffaloes. *South Afr J Anim Sci* 2009;39:102-6.
69. Newman S, Mac Neil MD, Reynolds WL, et al. Fixed effects in the formation of a composite line of beef cattle: I experimental design and reproductive performance. *J Anim Sci* 1993;71:2026-32.
70. Correa MT, Erb H, Scarllet J. Path analysis for seven post partum disorders of Holstein cows. *J Dairy Sci* 1993;76:1305-12.

71. Heins BJ, Hansen LB, Seykora AJ. Calving difficulty and still births of pure Holstein versus crossbreds of Holstein with Normande, Montbeliarde and Scandinavian Red. *J Dairy Sci* 2006;89:2805-10.
72. Gregory KE, Echternkamp SE, Dickerson JE. Twining in cattle III. Effects of twinning on dystocia, reproductive traits, calf survival, calf growth and low productivity. *J Anim Sci* 1990;68:3133-44.
73. Hossein-Zadeh NG. The effect of twinning on milk yield, dystocia, calf birth weight and open days in Holstein dairy cows of Iran. *J Anim Physiol Anim Nutr (Berl)* 2010;94:780-7.
74. Gregory KE, Echternkamp SE, Cundiff LV. Effects of twinning on dystocia, calf survival, calf growth, carcass traits and cow productivity. *J Anim Sci* 1996;74:1223-33.
75. Echternkamp SE, Gregory KE. Effects of twinning on gestation length, retained placenta and dystocia. *J Anim Sci* 1999;77: 39-47.
76. Rao KS, Rao KB, Raju KGS. Birth of heterozygous twins in an Ongole crossbred cow. *Indian J Anim Res* 2000;34:67-72.
77. Kirkpatrick BW. Management of twinning cow herds. *J Anim Sci* 2002;80:14-8.
78. Cobanoglu O. Twinning in cattle: Desirable or undesirable? *J Biol Environ Sci* 2010;4:1-8.
79. Bicalho RC, Galvao KN, Cheong SH, et al. Effect of stillbirths on cow survival and reproduction performance in Holstein dairy cows. *J Dairy Sci* 2007;90:2797-803.
80. Phogat JB, Singh P, Gupta SL. Observations on dystocia due to emphysematous fetuses in buffaloes. *Indian J Anim Reprod* 1993;14:65.
81. Craig JF. Fleming's Veterinary Obstetrics. Fourth Edition. Bailliere. London: Tindall and Cox; 1930.
82. Singla VK, Sharma RD. Analysis of 188 cases of dystocia in buffaloes. *Indian Vet J* 1992;69:563-4.
83. Laughton KW, Fisher KRS, Halina WG, Partlow GD. Schistosoma reflexus syndrome : a heritable defect in ruminants. *Anat Histol Embryol* 2005;34:312-8.
84. Citek J, Rehout V, Hajkova J. Congenital disorders in the cattle population of the Czech Republic. *Czech J Anim Sci* 2009;54:55-64.
85. Knight RP. The occurrence of schistosomus reflexus in bovine dystocia. *Aust Vet J* 1996;73:105-7.
86. Morton DH, Cox JE. Bovine dystocia: a survey of 200 cases met within general practice. *Vet Rec* 1968;82:530-7.

87. Cavalieri J, Farin PW. Birth of a Holstein freemartin calf co twinned to a schistosomus reflexus fetus. Theriogenol 1999;52:815-26.
88. Sarma RB. A case of schistosoma reflexus in a calf. Indian Vet J 1949;25:217-8.
89. Szonyi S. Bovine monstrosity. Can J Comp Med 1956;20:343-4.
90. Fatimah I, Bangso TA, Chooi KF. Schistosomus reflexus in a bovine calf: a case report. J Vet Malays 1981;13:40-2.
91. Bugalia NS, Verma SK, Khar SK, Khan MZ. Schistosomus reflexus in a Haryana cow. Haryana Vet 1982;21:38-40.
92. Higham DA. Schistosmus reflexus Vet Rec 1987;121:455.
93. Holt K. Schistosomus reflexus: a cluster of cases Vet Rec 1987;121:155.
94. Jackson PG. Schistosomous reflexus Vet Rec 1987;121:235-6.
95. Balasubramaniam S, Thilagar S, Kathiresan D, Pattabiraman SR. A case report on schistosoma reflexus with brachyggnathia inferior in a calf. Indian Vet J 1991;68:567-8.
96. Paolichhi FA. A case of Schistosoma reflexus in an Aberdeen Angus calf. Indian Vet J 1992;69:738-41.
97. Bezek DM, Frazer GS. Schistosomus reflexus in large animals. Compend Contin Edu Vet Pract 1994;16:1393-4.
98. Jana D, Ghosh M. Dystocia due to fetal monster with schistosoma reflexus and ectopic viscera - A case report. Indian Vet J 2001;78:333-4.
99. Rao AVN, Sreemannarayana O. Schistosoma reflexus in a buffalo conjoined twin. A case report. Indian Vet J 1984;61:80.
100. Sastry JS, Murthy S. Incidence of Schistosoma reflexus monstrosity in Indian water buffalo. Indian Vet J 1984;61:1084.
101. Bishnoi BL, Gupta AK, Kohli IS. A case report of schistosomus reflexus in Indian buffaloes. Indian Vet J 1987;11:119.
102. Murthy KK, Murthy PRK, Prasad V, et al. Dystocia due to schistosoma reflexus in a she-buffalo - a case report. Indian Vet J 1999;76:733-4.

103. Chandolia RK, Chander S, Kumar A, Singh P. Sistocormus fissipinalis monster in a buffalo. Indian J Anim Reprod 2003;24:176.
104. Herr S. Techniques for fetotomy on schistosomus reflexus calves. Vet Med Small Anim Clin 1979;74:1009-12.
105. Bugalia NS, Chander S, Chandolia RK, et al. Monstrosities in buffaloes and cows. Indian Vet J 1990;67:1042-3.
106. Bezek DM, Williams JF, Biller DS. What is your diagnosis? Perosomus elumbis in a bovine fetus. J Am Vet Med Assoc 1994;205:1685-6.
107. Son JM, Yong HY, Lee DS, et al. A case of perosomus elumbis in a Holstein calf. J Vet Med Sci 2008;70:521-3.
108. Kulasekar K, Chandrahasan C, Seshagiri VN. Dystocia due to persomus elumbis monster in a she-buffalo (*Bubalus bubalis*). Indian J Anim Reprod 1996;17:68.
109. Jana D, Mousumi J. Dystocia due to Perosomus elumbis foetal monster with breech presentation in a buffalo. Indian J Field Vet 2010;6:73-5.
110. Whitlock BK, Kaiser L, Maxwell HS. Heritable bovine fetal abnormalities. Theriogenol 2008;70:535-49.
111. Gadgil BA. Dicephalous monstrosity in a buffalo. Indian Vet J 1967;44:255.
112. Saxena OP, Prakash P. Thoracopagus conjoined twins in cattle - a case report. Indian Vet J 1986;63:470-2.
113. Pandey GS, Shandoma MN. A case report of bovine conjoined twins. Indian Vet J 1989;66:869-70.
114. Bakshi SA, Tandle MK, Aher VD, et al. Dicephalic monster in a cross bred cow. Indian J Anim Reprod 1992;13:93.
115. Bakshi BL, Sharma SS, Gupta AK. Dicephalus monster in a buffalo calf (*Bubalus bubalis*) Indian J Anim Reprod 1992;13:95.
116. Bishnoi BL, Sharma SS, Gupta AK, et al. Dicephalus monster in a buffalo calf. Indian Vet J 1992;13:95.
117. Thakre AG, Sarode DB, Sahare JS, Kaikini AS. Dicephalus diphysus monster in a Nagpuri buffalo. Indian J Anim Reprod 1992;13:200.
118. Chauhan KS, Verma HK. A case of dystocia due to diplopagus monster in a buffalo. Indian J Anim Reprod 1995;16:75.
119. Kumar S, Prasad S, Sharma V. Dicephalus tetrapus tetrabrachius monster in a graded Murrah buffalo. Indian J Anim Reprod 1999;20:171.

120. Bugalia NS, Biswas RK, Sharma RD. Dicephalus monster in an Indian water buffalo (*Bubalus bubalis*). Indian J Anim Reprod 2001;22:196-7.
121. Kasiraj R, Mutharao MS, Ranga Reddy NS, Misra AK. Conjoined monozygotic twins in a buffalo - A case study. Indian J Anim Reprod 2001;22:191.
122. Chandrahasan L, Krishna KK, Selvaraju M, et al. Dystocia due to dicephalus monostomus monster in a cross bred cow. Indian J Anim Reprod 2003;24:175.
123. Roberts SJ. Veterinary Obstetrics and Genital Diseases. New Delhi: Indian ed CBS Publishers; 1986.
124. Sinha SN, Akhtar MH, Roy GP, Kumar Y. Dystocia in a buffalo due to foetal monster (conjoined twin). Indian Vet J 1984;61:1085.
125. Sharma RD, Dhaliwal GS, Prabhakar S. Fetotomy in dystocias due to monstrosities in buffaloes. Indian J Anim Reprod 1992;13: 188-190.
126. Sahu S. A cephalothoracopagus disymmetros buffalo calf. Indian Vet J 1968;46:1046-7.
127. Sreemannarayana O, Cristopher KJ, Raju G, Narsimhamurti N. Double faced (Diprosopus) buffalo calf. Indian Vet J 1980;57:512-3.
128. Bahr C, Beineke A, Drogemuller C, Distt O. Diprosopus in calves of different breeds. *Dtsch Tierarztl Wochenschr* 2004;111: 154-58.
129. Sharma A, Sharma S, Vasistha NK. A diprosopus buffalo neonate: A case report. Buff Bull 2010;29:62-63.
130. Parikh MC. Double headed foetus. Indian Vet J 1931;7:262-3.
131. Subbarayundie MV. Double headed monstrosity. Indian Vet J 1934;10:241.
132. Eichler VB, Krogh JK. Development abnormalities of a new born two headed calf, with special reference to the anterior vessels and compound heart. Vet Pathol 1985;22:189-91.
133. Mc Ginn WJ, Partlow GD, Fisher KR. Two headed, two necked conjoined twin calf with partial duplication of thoracoabdominal structures. Role of blastocyst hatching. Anat Rec 1987;217:196-202.
134. Wakuri H, Mori T, Mutoh K. Arnold-Chiari malformation and associated abnormalities in dicephalic newborn calf. Okajimas Folia Japonica 1990;67:339-50.

135. Adsul PB, Velhankar RD, Dhande PL. Dicephalic dicardiac monster in a Dangi cow. Indian J Anim Reprod 1192;13:201-2.
136. Madarame H, Ito N, Takai S. Dicephalus Arnold-chiari malformation and spina bifida in a Japanese black calf. Zentralbl Veterinarmed A 1993;40:155-60.
137. Madarame H, Takai S, Ito N. Two headed, two necked conjoined twin calf with Arnold-chiari malformation in a Japanese calf. Anat Histol Embryol 1994;23:275-80.
138. Saha S, Sirkar CR, Jewari M. Dicephalus ischiopagus monster in a cross bred cow. Indian J Anim Reprod 1996;17:77.
139. Khan MZ, Islam R, War BA. Dystocia due to dicephalus distomus monster in a crossbred Jersey cow. Indian J Anim Reprod 2007;28:86-7.
140. Khasatiya CT, Patel DM, Dabhi DM, Chaudhari PP. Dystocia due to Dicephalus Dipagus monster in a Dangi cow. Indian J Anim Reprod 2008;29:224-5.
141. Buck BC, Zoeller M, Baumgartner W, Distt O. A rare occurrence of dicephalus scoliosis and complex heart anomalies in a male black and white German Holstein calf. Berl Munch Tierarztl Wochenschr 2009;122:116-20.
142. Rekhi BS. An unusual fetus in a buffalo cow. Indian Vet J 1939;15:426.
143. Reddy DS, Balasubramanyan R. A case of Bicephalus monstrosity in a buffalo calf. Indian Vet J 1950;26:421-2.
144. Jothi RS. Freak of nature. Indian Vet J 1956;32:304-5.
145. Majeed MA, Hussain SS, Har G. The structure of a double headed buffalo calf (Dicephalus dipus dibrachius) Vet Rec 1971;88:393-5.
146. Rao AVN, Sastry S, Joseph G, et al. Incidence of monosomian monstrosity in Indian water buffalo. Indian Vet J 1971;48:67-8.
147. Rao V, Jagannatha N, Kottaya K. Incidence of Isosomian monstrosity in Indian water buffaloes. Indian Vet J 1976;53:728.
148. Bishnoi BL, Kohli IS, Singh K. A case of double monstrosity in a she-buffalo. Indian Vet J 1984;61:901-2.
149. Dhingra SO, Hukeri VB, Deshpande BR. A study on double monster and its internal organs in a buffalo. Indian Vet J 1984;61:346.

150. Markandeya NM, Pargaonkar DR, Bakshi SA. Dicephalus monster in a Murrah buffalo - a case report. Indian J Anim Reprod 1989;19:176-8.
151. Panchal KM, Bhayani DM, Pandya S, et al. A note on dicephalic monster in a Surti buffalo. Indian J Anim Reprod 1990;11:160-2.
152. Bhayani DM, Panchal KM, Pandya S, Bage AS. An anatomical note on skeleton of dicephalic monster of Surti buffalo. Indian Vet J 1991;68:987-8.
153. Tandle MK, Suresh SH. A monostomus dicephalus male buffalo calf monster. Indian J Anim Reprod 1993;14:128.
154. Sharma A, Singh M, Sood P. Dystocia due to fetal monster in a buffalo - A case report. Indian J Anim Reprod 1996;17:74.
155. Suresh K, Prasad S, Sharma V. Dicephalus tetrapus tetrabrachius monster in a graded Murrah buffalo. Indian J Anim Reprod 1999;2:171.
156. Raju KGS, Rao KS, Reddy VSC, Sharma GP. Dicephalus bialanticus monster in a buffalo. Indian J Anim Reprod 2000;21:81.
157. Thirumalish T, Azeemulla HR. Dicephalus dibrachius monster in a buffalo - A case report. Indian Vet J 2001;78:355-6.
158. Dass J. Double headed monstrosity. Indian Vet J 1931;7:260-1.
159. Otonari S, Nakai M, Yamaguchi R, et al. Five cases of cranial duplication in a calf. J Vet Med Sci 1993;55:493-5.
160. Rao MN, Murthy TSN. A case report of bovine conjoined twin. Indian Vet J 1994;71:1242.
161. Kumar D, Dilip Muralikrishna BV, Ramakrishna V. Dystocia due to foetal lipomatosis in a she-buffalo. Indian Vet J 1997;74:687-8.
162. Tacal JV. Cephalic dichotomy in a carabao (*Bubalus bubalis*) calf. Indian Vet J 1967;44:256.
163. Rao VN, Prakash P, Joshi HC. Conjoined twins in a bovine foetus. Indian Vet J 1986;63:871-2.
164. Abraham J, Bihu S, Raj IV, Lakshmanan B. Dicephalic monster in a heifer Indian J Anim Reprod 2007;28:109-11.
165. Saleem M, Dadke RS, Dharmadhikari VG. Dicephalus monster in a buffalo – A case report. Indian Vet J 1996;73:1181-2.

166. Padile RD, Yadav GV, Aher VD, et al. Epitheliogenesis imperfecta in a Murrah buffalo calf - A case report. Indian Vet J 1961;78:658.
167. El-Shiekh H, Hegab AO, Zaabel SM. Dicephalus Atlodysmus monster associated with hydrops amnii in a buffalo cow. Vet Res 2010;3:46-8.
168. Velhankar DP, Deshpande BR, Hadi MA, et al. Occurrence of Gastrothoracodidymus octopes twin monsters in buffaloes. Indian Vet J 1968;45:823-9.
169. Nauriyal DC, Pandey NN. Bovine double monster in a buffalo. Indian Vet J 1979;56:976.
170. Urankar RM, Chhonker SV, Gangaprai PM. Conjoined twin monstrosity in a buffalo. Indian J Anim Reprod 1994;15:165.
171. Krishnakumar K, Napolean RE, Chandrahasan (2009). Conjoined monster in a Murrah buffalo. *Indian Vet J* 86: 92.
172. Pandey AK, Saini GS, Chander RN, Chaudhary P, Jakhar M, Singh SS, Yadav S (2010). Dystocia due to abnormal calf in a buffalo: A case report. *Buff Bull* 29: 315-16.
173. Kohli RN, Kumar V, Rama Prasad B, et al. Successful surgical correction of a female double monster buffalo calf. Indian Vet J 1980;57:416-8.
174. Naidu RS, Suresh Kumar RV, Kumar BVD. A case of sternophagus buffalo fetuses. Indian Vet J 1996;73:881-2.
175. Selvaraju M, Kathiresan D, Veerapandian C. Dystocia due to conjoined twin monster in a buffalo - A case report. Indian Vet J 2002;79:721-2.
176. Jerome A, Sarath T, Arunmozi N. Dystocia due to conjoined twin monster in a buffalo. Buff Bull 2010;29:229-30.
177. Mahalingam S. Conjoined buffalo twins. Indian Vet J 1968;42:1047-8.
178. Kondala Rao PD, Rao AVN, Sreemannarayanan O. A symmetrical conjoined twin with three parasitic limbs in a Zebu calf. Indian Vet J 1997;74:256.
179. Schulze U, Distl O. Case Report: Arhinia and Cyclopia in a German Fleckvieh calf. Dtsch Tierarztl Wochenschr 2006;113: 236-9.
180. Thakur SB. Dipygus monstrosity in a calf. Indian Vet J 1988;65:440.

181. Bugalia NS, Saigal RP, Sharma RD, Dugwekar YG. Diplopagus sternopagus monster in an Indian water buffalo (*Bubalus bubalis*). Indian J Anim Reprod 1985;6:102-4.
182. Antoine D, Murugavel K, Alphonse RMBD, et al. Monocephalus dipygus monster in a buffalo: a case report. Indian J Anim Reprod 1997;8:166.
183. Markandeya NM, Panchabhai VS, Salunke VM, Bhikane AV. A case of dystocia due to campylorrhachis monster in a cow. Indian J Anim Reprod 1998;19:163.
184. Chidester FE. Cyclopia in mammals. The Anat Rec 1914;8:355-66.
185. Mohanty BV. Congenital malformation in bovines. Incidence of cyclopia. Indian Vet J 1968;45:526-7.
186. Chakraborti A, Ganguli JL. Incidence of cyclopia prostomus arrhynchus in an indigenous cow (*Bos indicus*). Indian Vet J 1977;54:327-8.
187. Venu R, Reddy PCS, Dhanalakshmi N. Cyclopia in a Jersey cross bred calf - a case report. Indian Vet J 2001;78:657.
188. Ozcan K, Gurbulack K, Takci I, et al. A typical cyclopia in a brown Swiss cross calf: a case report. Anat Histol Embryol 2006;35:152-4.
189. Schulze U, Distt O. Case Report: Arhinia and Cyclopia in a German Fleckvieh calf. Dtsch Tierarztl Wochenschr 2006;113:236-9.
190. Ayyar AR. A case of congenital hydrocephalic monstrosity. Indian Vet J 1934;10:241-2.
191. Raju VS. A case of monstrosity in a calf. Indian Vet J 1939;16:648.
192. Srinivasan V. Breech presentation of a Megalocephalus monster in a cow. Indian Vet J 1940;17:160-1.
193. Allen JG. Congenital cerebellar hydroplasia in Jersey calves. Aust Vet J 1977;54:173-5.
194. Cristoferson LA, Leech RW, Hazen GA. Bovine hydrocephalus in North Dakota: a survey and morphologic study. Surg Neurol 1977;7:165-70.
195. Mouli SP. Surgical correction of congenital external hydrocephalus in a bull calf. Indian Vet J 1987;64:696-8.
196. Kumar RV, Ramakrishnan O. An unusual case of Meningocele in a day old calf. Indian Vet J 1996;73:1078-9.
197. Balasubramaniam S, Ashokan SA, Seshagiri VN, Pattabiraman SR. Congenital internal hydrocephalus in calf. Indian Vet J 1997;74:446-7.

198. Sharda R, Ingole SP. Congenital bilateral hydrocephalus in a Jersey cow calf - a case report. Indian Vet J 2002;79:965-6.
199. Kumaresan A, Garg A, Mahapatra US, et al. Dystocia due to hydrocephalus in a buffalo calf. Indian J Anim Reprod 2003;24:82.
200. Purohit GN, Gaur M, Sharma A. Dystocia in Rathi cows due to congenital hydrocephalus. Indian J Anim Reprod 2006;27:98-9.
201. Windsor PA, Cavanagh TA, Tammen I. Hydrops fetalis associated with pulmonary hydroplasia in Dexter calves. Aust Vet J 2006;84:278-81.
202. Singh AK, Brar PS. Hydrocephalus fetus: a rare case of fetal dystocia in a cow. Indian J Anim Reprod 2008;29:124.
203. Buck BC, Schnek H, Imbschweiler I, et al. A case of congenital high grade hydrocephalus internus and Dandy-Walker syndrome in a black and white German Holstein calf. Dtsch Tierarztl Wochenschr 2009;116:220-26.
204. Smolec O, Kos J, Vnuk D, et al. Multiple congenital malformation in a Simmental female calf: a case report. Veterinarni Medicina 2010;55:194-8.
205. Rao CRV, Sreeramula P, Krishnamurthy C, Rao AVR. A buffalo hydrocephalus calf removed by caesarean section under field conditions. Indian Vet J 1975;52:586-8.
206. Bhandari RM, Kadu MS, Belorkar PM, Marudwar SW. Obstetrical management of hydrocephalic foetus in buffaloes: a report of two cases. Indian Vet J 1978;55:1001-2.
207. Salunke SP, Amle MB, Zambre PC. Dystocia due to hydrocephalus in Pandharpuri buffalo. Indian J Anim Reprod 2001;22:96.
208. Nandakumar S, Ramachandra KM, Mohan S, Anil Kumar TV. Pathology of bovine congenital external hydrocephalus. Indian Vet J 1999;76:847-9.
209. Vidya Sagar P, Veni K, Sai Krishna KS, Vadde KS. Dystocia due to fetal ascites with wry neck in a graded murrah buffalo. A case report. Buff Bull 2010;29:73-4.
210. Gallagher DS, Lewis BC, De Donato M, et al. Autosomal trisomy 20 in a malformed bovine fetus. Vet Pathol 1999;36:448-51.
211. Shukla SP, Nema SP, Pandey AK, Garg UK. Dystocia due to bull dog calf in a she buffalo. Buff Bull 2007;26:104-5.

212. Singh B, Singh SV, Singh KP. Dystocia due to fetal anasarca in a buffalo. Indian J Anim Reprod 2007;28:90-1.
213. Prasad MC, Srivastava SC, Yadav KP, Mohan K. Foetal hydrops in cattle. Indian Vet J 1968;45:995-6.
214. Pandit RK, Singh V. Dystocia caused by severe fetal hydroperitoneum in a local cow. Indian J Anim Reprod 1990;11:76-7.
215. Rajasundaram RC, Selvaraju S, Ayyappan S. Dystocia due to fetal ascites in cow - a case report. Indian Vet J 1998;75:165-7.
216. Honparkhe M, Kumar A, Gandotra VK. Dystocia due to accumulation of fluid in peritoneal cavity and intestines of fetus in a cross bred cow. Indian J Anim Reprod 2003;24:83-4.
217. Iyengar RK. A case of dystocia due to ascites of the fetus. Indian Vet J 1943;19:326-7.
218. Shastry AP, Rao RL, Christopher KJ. Foetal dystocia in buffalo. Indian Vet J 1975;52:728-9.
219. Iyer MRK. Hydro allantois in a she-buffalo caused due to dropsy of the fetus. A case report. Indian J Anim Reprod 1986;7:144-5.
220. Devanathan TG, Asokan SA, Veerapandian, Sheshagiri VN. A note on fetal ascites with mild anasarca in buffalo. Indian J Anim Reprod 1990;11:68.
221. Nanda AS, Nowshahri MA, Sharma RD. Some studies on an ascitic fetus causing dystocia in a buffalo. Indian J Anim Reprod 1991;12:105-6.
222. Phogat JB, Bugalia NS, Bhardwaj RM. Dystocia due to fetal hydroperitoneum in a Murrah buffralo. Indian J Anim Reprod 1991;12:104-5.
223. Chaudhary S, Singh H, Sharma VK, Dabas YPS. Dystocia due to foetal ascites in a Murrah buffalo. A case report. Indian J Anim Reprod 1996;17:71-2.
224. Subramaniam A, Sundar Singh JSD. Dystocia due to cystic enlargement of fetus in a buffalo. Indian Vet J 1986;62:70.
225. Shanta YG, Phay CP. Monstrosity in a calf. Indian Vet J 1936;13:158-9.
226. Sitaramamurty G. A case of abnormal fetal development. Indian Vet J 1946;22:352.
227. Gupta PP, Pathak MP, Singh B. A note on an unusual case of monstrosity in a calf. Indian Vet J 1978;55:350.

228. Maiti SK, Das A, Samanta D. Bull dog foetal monster in cattle. Indian Vet J 1994;71:193-4.
229. Kumar A, Honparkhe M, Dhaliwal GS. Dystocia due to bull dog calf in a crossbred cow. Indian J Anim Reprod 2007;28:84-5.
230. Rao Narshimha AV, Janakiramayya M. Achondroplasia in buffalo species. Indian Vet J 1995;72:992-3.
231. Singh J, Mideksa B, Pawde AM, Deori S. Fetal arthrogryposis causing dystocia in a pluriparous buffalo. Buff Bull 2008;27:263-4.
232. Mee JF. Holocardius amorphous totalis in two Friesian cows carrying natural and induced twins. Vet Rec 1990;127:304-7.
233. Mohan CM, Mada-Balasubramaniam S, Subramaniam A. Obstetrical management of camphyllorachis foetal monstrosity in a cow - a case report. Indian Vet J 1996;73:1076-7.
234. Vyas KN, Mudholkar DR. A case of acephalus acardiacus monstrosity in an Indian buffalo. Indian Vet J 1971;48:619-20.
235. Phogat JB, Singh S, Bugalia NS, Gupta SL. Holocardius amorphous in corpus uteri of a buffalo. Indian J Anim Reprod 1992;13:198-99.
236. Dhami AJ, Panchal MT, Kavani FS. Dystocia due to holoacardius acephalic (assymetrical conjoined twin) monster in a buffalo. Indian J Anim Reprod 2000;21:162-4.
237. Prabhakar S, Singh P, Nanda AS, Rana JS. Muscular pseudohypertrophy in a buffalo fetus - A case report. Indian Vet J 1995;72:997-8.
238. Prabhakar S, Gandotra VK, Honoparkhe M. Dystocia due to muscular hypertrophy and excessive accumulation of abdominal fat in a buffalo fetus. Indian J Anim Reprod 2003;24:80-1.
239. Ghuman SPS, Nazir G, Ganie MA, Phawa B. Delivery of arthrogryposis-scoliosis fetus in a buffalo through partial fetotomy. Indian J Anim Reprod 2009;30:92.
240. MacLachlan NJ, Osburn BI. Blue tongue virus induced Hydranencephaly in cattle. Vet Pathol 1983;20:563-73.
241. Yeruham I, Michael M, Perl S. An unusual congenital malformation in a calf with serological evidence of fetal bovine viral diarrhea virus infection. Acta Vet Scand 2001;42:425-8.
242. Charan K, Gill BS, Ramuru M, Parihari NS. Mesothelioma in a bovine fetus associated with dystocia in the cow. Indian Vet J 1974;51:572-3.

243. Vandeplassche M. Dystocia. In: McKinnon AD, Voss J. Equine Reproduction. Philadelphia: Lea and Febiger; 1993. pp 578-587.
244. Frazer GS. Dystocia and fetotomy. In: Samper JC, Pycock JF, Mc Kinnon AO. Current therapy in equine reproduction. Missouri: Saunders Elsevier; 2007. pp 417-434.
245. Scanlon PF. Orientation of cattle fetuses in utero in relation to stage of pregnancy. J Dairy Sci 1975;58:571-3.
246. Menard L. The use of clenbuterol in large animal obstetrics: manual correction of Bovine dystocias. Can Vet J 1994;35:289-92.
247. Mudasir Q, Shukla SP, Noma SP, et al. Dystocia due to lateral deviation of the head and fetal emphysema in a she buffalo. Buffalo Bull 2010;29:78-80.
248. Purohit GN, Barolia Y, Shekher C, Kumar P. Maternal dystocia in cows and buffaloes: a review. Open J Anim Sci 2011;1:41-53.
249. Purohit GN, Barolia Y, Shekhar C, Kumar P. Diagnosis and correction of uterine torsion in cattle and buffaloes. Raksha Techn Rev 2011;1:11-7.