

eoſ'k; kaeā; k dsmijkr gksokyh vpØh; rk dk ççdku

eſk iſk iſk dſkj ueh pm] uſk çl m] , l- lſk Jhdkr R; lxx , oa , l vk; Z

Hkk—vuq; & dſæh; xkdk vuq dku l fFku] eſB Nkouh&250 001] mſk çnſk] Hkkj rA

iſr%fnl Ecj 2020

Lohdr% tuojh 2021

I kjk

eoſ'k; kaeā; o Hk ½ea; k dſckn xehzeau vkuk , d e; l eL; k gſ ftl dh otg l si 'kq kydkadksvfkFkd
gkfu mBkuh i Mf h gā orēku v/; ; u eſB {k= dh 18 mPp nſk&mRi kn d l dſj uly fd xk; kō eſk xM/M Hk kaeaf d; k
x; k gſ ftUgkūc; k dſ60&120 fnukadſckn Hk xehz dſl dſr ughafn [kk, FkA l Hk i 'kq/ka dſçtuu vaxkdk xſk&ekxZ
½Per-rectal½ o vYVkl kſkſkQh rduhd }kj v/; ; u fd; k x; k] ftl l s; g i rk pyk fd nſkſkgh fMæ xſFk; kaeaf d l h
Hk çdkj dsmHk ¼ i vdk ; k Y; v; y dſ' kdk, ½ ughagſ ; kfu fd i 'kq/ka d fMæ xſFk , fdVo ughagſ ¼ pduh fMæ xſFk; k½
; k vpØh; gā mi pkj dſçkj Hk ea l Hk i 'kq/ka dſQſk½ktſy ½ fe-xk çr fdysHk ½ uked —feuk'kd nokbZ nh xbZ
ftl dſckn fpyM [kfu t feJ.k ½0 xte /fnu/ tkuoj 30 fnukadſfy, ½fn; k x; kA bl dſvykok] mſga vſkQ, LQku
bat'ku ½b½jſ] @10 feyhyhVj I/M/ i 'kq/ l lrg½pkj l lrg dſfy, fn; k x; kA vſ ea l Hk dſGnRH ¼@5 mL]
Receptal®VET] I/M½dk bat'ku fn; k x; k] vſ mi pkj dsmijkr i 'kq/ka eſn&dſy dk fo' yſk. k fd; k x; kA 18 i 'kq/ka
ea l s13 ¼2-22%½ i 'kq/ka eſn&dſy dſy {k. k 40 fnukadſHk rj fn [kkbZfn; A vr: bl v/; u dk ; g fu" d" kZgſ d C; kus
dsmijkr —feuk'kd nokbZ [kfu t feJ.k dk fu; fer l ou] QkLQk l l flye vſ GnRH bat'ku dſl a çā çHko l s
mPp nſk&mRi kn d eoſ'k; kaeā çl okſk nſk tkusokyh vpØh; rk dſBhd fd; k tk l drk gā bl tkp l s; g Hk
çrfçr çr gſ d QhYM ea i 'kq/ka dſ; gk vſ/kd nſk nſokys i 'kq/ka dh çtuu {kerk dſn {k j [kus dſfy, mſga
vPNso vſ/kd xqkolk okys vſgk dh vko'; drk gſr h gā

'k dſk , l kbfdyfdVh] Hk] i 'kq eoſ'kh] GnRH] çl okſk & vpØh; rka

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Postpartum acyclicity and its management in bovines

Megha Pande*, Suresh Kumar, N. Chand, N. Prasad, S. Saha, S. Tyagi and S. Arya

ICAR-Central Institute for Research on Cattle, Meerut Cantt-250 001, Meerut, Uttar Pradesh, India.

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ABSTRACT

Prolonged ovarian acyclicity after parturition is one of the major problems faced by Bovine (Cattle and Buffalo) owners under field conditions. The present study was conducted on pre-selected 18 healthy and high milk producing crossbred cattle and Murrah graded buffaloes of Meerut region that did not show heat signs for 60-120 days' post-partum. The ultrasonographic studies and gynaecological examination of genitalia further revealed absence of any perceptible follicular or luteal structures (smooth ovaries). The animals were initially dewormed using Fenbendazole (5 mg/Kg Body weight) followed by oral supplementation of chelated mineral mixture (50 g/day/animal for 30 days). Furthermore, they received injection of Tonophosphan (Intervet, @ 10 mL I/M/animal/week) for four weeks. Finally, after completing the above treatment, all were given an injection of GnRH (@ 5 mL I/M, Receptal®VET) and the treated animals were monitored for oestrus detection. The oestrus was induced in 13 out of 18 bovines (72.22 %). Overall, the study revealed that the combined effect of dewormer, mineral supplementation, Tonophosphan and GnRH injection could be used successfully to induce heat and resume cyclicity in high yielding postpartum acyclic bovines. It also reflected the necessity for the need of improvement in the plane of nutrition in high yielding animals.

Key words: Acyclicity, Buffalo, Cattle, GnRH, Post-partum anoestrus.

Corresponding author's E-mail: megha.pande@icar.gov.in

Hkk—vuq; & dſæh; xkdk vuq dku l fFku] eſB Nkouh&250 001] mſk çnſk] Hkkj rA

ICAR-Central Institute for Research on Cattle, Meerut Cantt-250 001, Uttar Pradesh, India.

čLrkouk

C; kar ds mijkar dbz ckj vf/kd nñk nñs okys i 'kq/kaeae&dky dsy{k.k çdV ughagksrA bl fLFkr ea i 'kq/dks xkfHku ughadj i kusdsckj.k l si 'kq/i kydk dks vkfFkd gkfu gksh gA yae l e; rd çl okškj vpØh; rk ds ckj.k C; kar varjky vf/kd gks tkrk gSo i 'kq/ka dh çtuu n{krk eadeh vk tkrh gA ; g fLFkr fo'kš dj mu i 'kq/kaeaeñ[kh xbzgSftudk nñk mRi knu vPNk gksrk gA i wZeafd, x; s'kš/kkads vuđ kj] dñy 30%&50% eošk gh C; kar ds igys 90 fnuka ds nñs ku en&dky fn[kkrs gš o 30% & 40% i 'kq/150 fnuka l svf/kd dsfy, en&ghu gks tkrh gš 1/4 km/h, V- v,y] 2003; , y&fo'kh] 2007/A bl ds çet[k ckj.k dbz gks l drsgš tš sdh vi; klr i qVdk fodkl] C; klr ds mijkar gkekš dk vl rgyu 1/4 kš Vi kVē&, MksØuki škh] i škd rRokadh deh] cNMLadh mi fLFkr] 'kjhj dsotu eadeh] [kjc ekš e vñ çcdku ; k j [k&j [kko eadeh 1/4 nñl vñ [kku] 2010/A

çl o ds ckn i škd rRoka; k [kfut yo.kka dh deh l si 'kq/kaeae fofHku chekfj; k Hkh mRi l u gks l drh gš ftl ds ckj.k i 'kq/en&pØ ea Bhd rjg l sughav i krkA mi jkš l eL; k l sfui Vusvñ i 'kq/kaeae çtuu n{krk ea l kñj djus dsfy, oržeku v/; ; u ejB {kš= ds Qke] Ql & ifj; kstuk ds vñ xñ p; fur xkp eadh xbz FkhA

l kexb ,oa i jh{k.k fof/k

; g 'kš ejB {kš= dh 18 mPp nñk&mRi knu l dñj ul y fd xk; ka o ejkž xMM Hkš kaeafd; k x; k gš ftl gkaus C; kar ds 60&120 fnu chr tkus ds ckn Hkh xehz; k __r&d ky dsl dñr ughafn[kk, FkA l Hkh 18 i 'kq/1Y; yhi j l eošk Fks vFkž, d l svf/kd ckj C; k pñs FkA i 'kq/ka ds 'kjhj dh fLFkr dk Ldkj dk vñ r 3-4 ± 0-5 FkA i 'kq/ka dk vñ r nñk mRi knu 20 fdykšce /fnu l svf/kd FkA l Hkh i 'kq/ka ds çtuu vñka dh tkp xñk&ekxž 1/4 Per-rectal 1/2 , oa vYVñ l kšxšxž Qh }kjk dh xbz FkhA fMēxñFk; kai j l kekl; r% nks gh çdkj ds mHkñ feyrs gš tš s; k rks vñx&vñx vkdkj dh i qVdk; gksh gš; k fQj çkst & Vñku uked g,ekš dks fudkyus okyh xñFk 1/4 dki & Y; fV; e ; k i hr&fi M 1/2 gksh gA ftu i 'kq/kai j v/; ; u gñk mu l Hkh dh fMēxñFk; ka

i j dkbž Hkh mHkñ ughaFk o vñojh Leñk ; k fpduh gks xbz FkhA vpØh; rk dh fLFkr dh i qV dñs dsfy,] nñ jh tkp 10 fnuka ds ckn i q% vYVñ l kmM }kjk dh xbz nñ jh tkp us Hkh fpduh fMēxñFk; ka dh i qV dhA

i 'kq/ka ea çkjñk ea QucMktky 1/5 mg/Kg Body weight 1/2 uked —feuk'kd nokž dk mi ; kš fd; k x; k] ftl ds ckn fpyšM [kfut feJ.k 1/50 xke /fnu /tkuoj 1/2 30 fnuka dsfy, fn; k x; kA bl ds vykok] mlgVñku Q, LQku bat'ku 1/4 joV @ 10 mL I/M /i 'kq l rkg 1/2 pkj l rkg ds fy, fn; k x; k FkA var ej mi jkš mi pkj dñs i jk dñs ds ckn] l Hkh dks GnRH 1/4 @ 5 mL, Receptal @ VET, I/M 1/2 dk bat'ku fn; k x; k vñ mi pkj ds mijkar i 'kq/kaeae&dky dk fo'yš.k fd; k x; kA

ifj.kke o foopuk

18 ea l s13 i 'kq/ka 1/2-22% 1/2 eae&dky dsy{k.k 30&40 fnuka ds Hkñrj fn[kkbž fn; A mPp mRi knu okys vpØh; i 'kq/ka dh —feuk'kd] [kfut vuđ yj d] QkLQkj l l flyeV vñ GnRH bat'ku dsl a qñ çHko ds }kjk Bhd gñž çtuu çn'ku 1/4 jQ, ea 1/2 rkydk l eafn[kkbž xbz gA dšY'k; e vñr; {k : i l s tkuojka ea çtuu dks

çHkfor djrk gA ; g tkuojka dh vl; l qe rRoka dk mi ; kš djus dh {kerk dks Hkh çHkfor djrk gS ftl ckj.k çtuu {kerk ea o; o/kku vñrk gA /kš y vñ xñrk 1/4 986 1/2 us vpØh; tkuojka dh rgyuk ea pØh; i 'kq/ka ea mPp dšY'k; e Lrj dks fjd, MZ fd; k FkA oržeku v/; ; u ds ifj.kke Hkh bl ckr dk l eFkž dñrsgSfd dšY'k; e i 'kq/ka ea l kekl; çtuu n{krk dks cuk, j [kusea, d çet[k Hkñedk fuHkñrk gA

'kgtkn , V- v,y- 1/2 2016 1/2 us l kekl; pØ okys i 'kq/ka dh rgyuk eae&ghu i 'kq/kaeae Q, LQkj l ds Lrj ea dk Qh deh i k; h FkhA dšY'k; e o Q, LQkj l tš s [kfut ka dh [ku eadeh fMēxñFk; kai j Hkh udkj kRed çHko Mkñrh gš ftl l s og l kekl; voLFk l s de fØ; k'khy 1/4 gkbik & QD'kuy 1/2 gks tkrh gA [kfut yo.kka dh deh l s fi Vñ wñh vñ fMēxñFk gkekš 1/4 LVñstu o çkst & Vñku 1/2 ds Lrj Hkh çHkfor gñsgš ftl ckj.k l kekl; çtuu çfØ; k eack/kk i šk gksh gA çd y , V- v,y- 1/4 978 1/2 us crk; k fd

rkydk 1: mPp mRi knu okys çl okškj & vpØh; gks pñs i 'kq/ka dk çtuu çn'ku A

ckj d

C; kar ds fdrus fnu chr tkus ds ckn Hkh i 'kqus xehz dsl dñr ughafn[kk; s

60&120

mi pkj ds fdrus fnuka ds Hkñrj i 'kqus xehz ea vkus dsl dñr fn; s

30&40

fdrus i 'kq mi pkj l senpØ ea vk x,

18 ea l s13 1/2-22% 1/2

QhM ; k vkgkj ea Q,LOqjI ijd feykus l s i 'kq/ka ds
çtuu çn'kū eal qkjk gkrk gā orēku v/; ; u l s ; g Hkh
irk pyrk gsf d Q,LOqjI ijd çl okōkj dsmijkr yās
l e; l svpØh; rk fn [kkusokys i 'kq/ka eal dkj kRed çHko
Mkyrk gā

dſy'k; e o Q,LOqjI dsvykok vl; l ſe [kfut
tſ sdh ftad] eſuhf'k; e] eſuht] vk; ju] d, i j] dkskYV]
i kſ/ſ'k; e] l kſM; e bR; kfn vſſ foVkfēu , j Mh&3 o bſdk
Hkh i 'kq/kadh çtuu {kerk dksuk, j [kuseacgr egRo i wk
; kſnku gkrk gā 'kjhj eabudsvl rgyu dsdkj .k foHku
l eL; k, amRi l u gks l drh gā D; kād vf/kdk k i 'kq/ka ds
j kst kuk yusokysvkgkj eal ſe [kfut o foVkfēu l i; kſr
ek=k ea ughagrs bl fy, blga i jk djs ds fy, [kfut
feJ .k dksvkgkj ea 2% dh ek=k eafeykusdh vko' ; drk
gkrh gſ/dēkj , V- v, y-] 2011/ā 'kjhj ea [kfut kads Lrj
dsvl rgyu dks l gh dj FkkMh l h vfrfj ä ykr eai 'kqds
çtuu çn'kū vſſ LokLF; eal qkjk fd; k tk l drk gſ
/dēkj , V- v, y-] 2011/ā orēku v/; ; u l s Hkh ; g irk
pyrk gsf d çl okōkj dsmijkr yās l e; l svpØh; rk
fn [kkus okys i 'kq/ka eal [kfut & vuq i j d l dkj kRed çHko
Mkyrk gā

GnRH gkeku 'kjhj dsgkbi kſſyel xſF l sfudyrk
gſtksfd ih; ſk xſF l SFSH o LH gkeku dsl ko dksdvl ſy
djrk gā enpØ dsfu; e dks; FkkØe eaj [kusdsfy, ; g
l Hkh gkeku vfuok; Zgkrs gā tc ge ckj l s GnRH gkeku
'kjhj ea yxkrs gſrks og i 'kqfd ih; ſk xſF l SFSH/LH
gkeku dsl ko dks c<k nrs gſft l l s fpduh i Mh gſz
fMæxſFk; ka dks LVHē; ſyl feyrk gſo fQj l s l kbz i Mh
i ſVdk; j tkxr gks tkrh gſvſſ i 'kqen&dky eavkus ds
fy, rſ kj gks tkrk gſ/egjks=k , V- v, y-] 2015/ā

vr: bl v/; ; u l s ; g fu" d" k fudyrk gſfd
C; kusdsmi jkr —feuk' kd nokb] [kfut feJ .k dk fu; fer
l ou] QkLOqjI l flye v vſſ GnRH gkeku dsbat' d' ku ds
l a qā çHko l smPp nſk&mRi kn d eofs' k; kaeçl okōkj nſkh
tkusokyh vpØh; rk dks Bh d fd; k tk l drk gā bl tkp
l s ; g Hkh çfrfcſr gkrk gſdh QhYM eavf/kd nſk/k mRi knu
okys i 'kq/kadh çtuu {kerk dksn {k j [kusdsfy, mlgavPNs
o vf/kd xqkoſk okysvkgkj dh vko' ; drk gkrh gā

vſHkoH—fr

; g dke Hkk—vuqj - &—f'k çſſ kſx dh vuç; kſ
l hFku 1/4/Vkj h j tks&iv] dku i j dsl g; kſ o —f'k foLrkj]

Hkk—vuqj -] KAB&1] i h k] ubz fnYyh }kjk foſk i kſ'kr]
Qke] QkLVZ 1/4Farmer FIRST 1/2 i fj; kst uk 1/4çst ðV uæj
oXX03793 1/2 dsvr xſ ICAR-CIRC ej B] }kjk fd; k x; k
gā yſkd funſkd] Hkk—vuqj & dſæh; xſkāk vuç dku
l hFku] ej B] dsvkHkhj gſft l gkſbl v/; ; u dsl pkyu
grq l Hkh vko' ; d l ſo/kk, al g" k çnku dhA

l mHk

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