

PMSG

|| 1061

' || y~ y н
~ н Â PMSG ~
~ PMSG ã ã è y Â
' PMSG
y ã y н ì y н Â y "
^ ã ã ã ã ã ã
~
y
~ y^[1] Â

(Pregnant mareserum gonadotropin, PMSG) y , ò
ì PMSG , ^ 60 120 ~ Â
Э, PMSG é FSH () LH () ~ è
~ ã || ~ FSH ~
[2] Â ý 1930 Cole Hart^[3] PMSG ,PMSG è
|| Э Â

1 ã

1.1

(Oestrus Synchronization) y ~ y н
Â ~ y
[4] ~ ~
~ л н ~
y ~ Â
20 40 Â 1948 ~ Christian 14
, y, ý "l [5] Â

1.2

y ю, Э ì Ь :w √ ' Ŷ LH
' ŷ LH [6] Â ||
~ √ y~
~ ì y "Ω Â
y Â y y ~
è Э ~ y Â ~ Э ì
è ~ ã ~ ì юу y
"Ω Â y a " ~ || || ~

1.3

18-

FSH → PMSG → HCG → LH LHRH

2 → PMSG

2.1

PMSG

+PMSG+PG 72h 82.5%^[10]

HCG 30 d 55.6%

(PMSG)+ (PG)

+PMSG+PG

(2008)

LRH-A3 PMSG

PGc+PMSG

$\text{æ}^{\sim}$ "H Ю $\sim$ $\text{æ}^{\sim}$ y a
 $\parallel$ $\parallel$ ^[17] PMSG ^[18] $\hat{A}$ $\sim$
 PMSG 1000 IU $\sim$ й 1% ψ $\downarrow$ ' PMSG 1 250 IU
 Э $\sim$ 5% 3% $\downarrow$ $\sim$ $\downarrow$ Ю $\text{æ}'$ 1 3 $\sim$
^[18] $\hat{A}$
 PMSG $\sim$ è $\sim$
 a $\sim$ a $\hat{A}$ $\sim$
 $\sim$ PMSG è $\downarrow$ $\sim$
 й $\downarrow$ $\hat{A}$

2.2

y $\sim$ 16~20 d $\downarrow$ й
 70%(Smith 1973) $\parallel$ $\sim$ $\hat{A}$
 1963 $\sim$ $\sim$ π $\sim$ й
^[19] $\hat{A}$ Mukuerjee(y 1(1992) й PMSG $\downarrow$
 FSH^[20] $\hat{A}$ y (1988) PMSG $\downarrow$ 18- $\downarrow$ $\sim$ è
 18- $\sim$ $\downarrow$ PMSG 97.6%^[21] $\hat{A}$
 $\sim$ a FSH (I)
 й 42.2%(19/45)' FSH 25IU (ñ) й 64.0%(32/50)' FSH33IU (h)
 й 60.7%(37/61) I æ ñ h P(<0.05) б a (p>0.05) ÿ æ
^[22] $\hat{A}$ $\sim$ $\downarrow$ $\sim$ a $\downarrow$
 y a $\downarrow$ $\downarrow$ FSH PMSG $\hat{A}$ $\sim$ PMSG
 $\hat{A}$
 A kaike 600 mg MAP PMSG 600 IU й 48% $\hat{A}$
 cordon cole(1973) FGA $\sim$ à PMSG à MAP()+PMSG à
 $\sim$ 34% 64% $\downarrow$ $\hat{A}$ Lubbadeh 2 4 Э
 12 d y 600IU PMSG $\sim$ a PMSG $\sim$ 24h $\sim$
 è й 100% 70% $\hat{A}$ 1978 $\sim$ Boland PMSG $\downarrow$ PG $\sim$ $\hat{A}$
^[23] $\sim$ 11d PMSG()400IU " 2
 ("H) $\sim$ a $\sim$
 à $\hat{A}$
 90 PMSG ÿ $\downarrow$ è $\hat{A}$ Das.G.K.(1998) à
 Forcada.F.(1999) Belibasaki,S.(2000) Ungerfeld,R.(2000) AL-Merestani M.R.(1999)
 +PMSG $\sim$ ^[24]
 Scudmaoer ,Thompson $\sim$ PRID 12-14 d 4sh

PMSG 200-400IU^{25,26} 55h ˆ
 1993 ˆ G..Martemucci ˆ 30mg FGA 12d
 ˆ 1000IU PMSG ˆ 1999 ˆ
 ˆ 14d PMSG
 550IU ˆ 53% ˆ 66% ˆ 20% ˆ 55%^[27] ˆ
 15d MAP 2d PMSG300~500IU ˆ ˆ
 ˆ2003 ˆ ˆ
 ˆ 30mg ˆ 78.79% PMSG
 ˆ 85.71%^[28] ˆ^[29] 2005 ˆ +PMSG 383 ˆ
 350 ˆ ˆ 91.38% ˆ ˆ 2007^[30]
 a ˆ ˆ Ю a ˆ a CIDR 12d+PMSG
 200IU ˆ ˆ ˆ
 87.61% ˆ 84.17% ˆ 92.5% 84.6% 72 ˆ 100% ˆ
 æ ˆ 8 ˆ 12 ˆ PMSG 200IU
 ˆ ˆ ˆ
 ˆ ˆ ˆ ˆ
 PMSG ˆ ˆ ˆ ˆ
 ˆ ˆ +MPA+PRID+PMSG 273 ˆ 14d ˆ ˆ
 100% ˆ ˆ 7%^[31] ˆ1999 ˆ ˆ
 1 ˆ ˆ 0.05mg ˆ ˆ 300IU PMSG LRH-A2 100mg
 ˆ ˆ 96h ˆ 100% ˆ2003^[32] ˆ
 ˆ ˆ ˆ 99 36 (ˆ 25-35d)
 ˆ ˆ 99 24h 81.8 ˆ 48h ˆ 89.9 ˆ 36
 24h ˆ 48h 80.6 ˆ 250 IU
 ˆ 90.0 ˆ 330IU 68.8 ˆ a
 ˆ PMSG ˆ
 ˆ ˆ ˆ ˆ a ˆ
 a ˆ a ˆ a ˆ ˆ ˆ
 ˆ ˆ a ˆ ˆ Fukui ˆ
 MAP CIDR 9d ˆ PMSG ˆ a
 ˆ ˆ a ˆ a ˆ

2.3

ˆ ˆ a ˆ ˆ ˆ^[33] ˆ
 ˆ ˆ 10d ˆ ˆ æ ˆ

1951 Kvashickii $\hat{A}$ 20 60 ,
 $\hat{A}$ PMSG+HCG
 [34] $\hat{A}$ [35]
 PMSG ЮPMSG
 $\hat{A} \uparrow$ [36] 2~3
 PMSG PMSG
 $\hat{A}$ PMSG $\hat{A}$
 Юл - - Ю $\hat{A}$
 (1993) 72 1000 У 2000
 PMSG. 2 У 3 95.83% $\downarrow$ $\hat{A}$ 97.1%
 $\downarrow$ $\hat{A}$ 97.1%. 9.09 / $\hat{A}$ Ю
 1000 PMSG 7 82.1%
 36.9 a $\downarrow$ (1994) [38] $\hat{A}$
 PMSG $\hat{A}$ У $\hat{A}$ 2000
 a У PMSG $\hat{A}$ 2000
 $\hat{A}$ (PMSG) PMSG+ (HCG) Б
 $\hat{A}$ 90.23% $\hat{A}$ 98.15% $\hat{A}$ 99.33% б 46.70%
 Б [39] $\hat{A}$ [40]
 2005 4 $\hat{A}$ (PMSG) $\hat{A}$ PMSG+
 (HCG) ^ PMSG 600IU+HCG 200 IU ^ (PMSG HCG $\hat{A}$ ~
 $\hat{A}$ ' $\downarrow$
 80.40% 85.96% $\hat{A}$ 2001 PMSG+HCG
 $\hat{A}$ 81.25% 87.50% [41] $\hat{A}$
 PMSG HCG $\hat{A}$ $\hat{A}$ a ~
 PMSG $\hat{A}$ Э $\hat{A}$ a ~ [42] PMSG+HCG ~
 PG/PMSG+HCG ~ PG/PG+PMSG+HCG Б ~ $\hat{A}$
 66.7% 90.2% 100% $\hat{A}$ Б $\hat{A}$ Ю PG/PMSG+HCG $\hat{A}$
 $\hat{A}$ [43] PMSG+Б $\hat{A}$ м $\hat{A}$ $\hat{A}$ ~
 18 ~ 42-72h ~ ld ~ $\hat{A}$ У , :
 $\hat{A}$ PG/PMSG+HCG
 $\hat{A}$
 Э ~ PMSG $\hat{A}$
 ~ æ У ~ $\hat{A}$

2.4

PMSG é è y a

Â PMSG a

y || PMSG a

é || a Â

1993 15 " 15PGF2

8 10d Â y 15PGF2 PMSG500

1250IU/ Â 5d 100 Â ' 2003

[44] 26 CIDR 15d CIDR PMSG

500IU à 250IU à 200IU à 150IU 100IU è 80 à 75 à 80 à 50 à 100

Â † 2005 [45] (PG) (PMSG) y ,

A è 8 PG+PG+PMSG, B è 8 PG+PMSG Â ' A à B 5 d

(8 93 · 3% 86 · 7%) (P<0 · 05) 2 a

(P>0 · 05) 2007 [46] PMSG+PGc(n)

PMSG+PGc+HCG(LRH-A3)(0) , 62.96% 61.54% PMSG(Ñ

) PMSG+HCG(LRH-A3)(ñ) (P<0.01) Ñ à ñ ~ n à 0

(P>0.05) Â PMSG+PGc 1 é PMSG

[47] 2008 Б К

y' П PMSG ' ' CIDR+PMSG ' Б' PG+PG+PMSG

Â è 81.8%(36/44) à 92%(46/50) à 42.1%(8/19) a

(P>0.05) PG+PG Â y

é è PG PMSG a

3

à ~ П

й y~ Â PMSG y

æ ~ è 1 Â н ~ PMSG

~ y

PMSG П Â

|| PMSG ||

PMSG é || Э Â ~

|| ~ || PMSG

А ПМСГ а || ~ а н ~ А

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