METHODS OF ESTRUS SYNCRONISATION FOR FACILITATING SWINE
ARTIFICIAL INSEMINATION.

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I. The following abbreviations are used:

AI - artificially inseminate
PMS - pregnant mare serum gonadotrophin
HCG - human chorionic gonadotrophin
SC - subcutaneous injection
IM - intramuscular injection
IU - international unit
Regu-Mate - trade name for progesterone
PGF2α - prostaglandin F2α sold under trade names
Estrumate and Lutalyse

II. Weaned Sows

a) PMS 750-1000 IU SC within 12 hr post weaning
   HCG 500-1000 IU IM 72-96 hr post PMS
   AI twice - 24 and 36 hr post HCG
   or
   AI once - liquid 26-32 hr post HCG
   - frozen 30-34 hr post HCG
   Can also use only PMS and AI 24 and 36 hr post first
   standing estrus.

b) PGF2α (400 IU PMS and 200 HCG) single IM injection
   within 12 hr post weaning.
   AI 24 and 36 hr post first standing estrus.

c) PMS treatment. PMS plus HCG or PGF2α also helpful in
   preventing breeding slumps during hot months and with
   first litter gilt nursing large litters.

III. Lactating Sows

a) PMS 1000 IU SC
   HCG 1000 IU IM 72-96 hr post PMS
   AI twice 24 and 36 hr post HCG
   or
   AI once - liquid 26-32 hr post HCG
   - frozen 30-34 hr post HCG
   PMS treatment should not begin prior to 15 days post-
   partum and preferably 20 days for maximum conception
   rate.

IV. Non-cycling Gilts or Sows

a) PMS 500-1000 IU SC
   HCG 500-750 IU IM 72-96 hr post PMS
   AI twice - 24 and 36 hr post HCG
   or
   AI once - liquid 26-32 hr post HCG
   - frozen 30-34 hr post HCG
Can utilise only PMS and AI 12 and 24 hr post first standing estrus for gilts
or
24 and 36 hr for sows.
b) PG600 (400 IU PMS and 200 IU HCG) single injection IM.
   AI 12 and 24 hr post first standing estrus for gilts
   or 24 and 36 hr for sows.

V. Cycling Gilts or Sows

a) Feed Regu-Mate at rate of 14mg/day for gilts or
   30mg/day for sows for 18 days. (Regu-Mate not USDA
   approved for swine)
   1) Remove Regu-Mate from feed
      AI 12 and 24 hr post first standing estrus for
      gilts or 24 and 36 hr for sows.
   2) Remove Regu-Mate from feed
      PMS 500-1000 IU SC 24 hr post last Regu-Mate
      feeding
      HCG 500-750 IU IM 72-96 hr post PMS
      AI twice - 24 and 36 hr post HCG
      or
      AI once - liquid 28-32 hr post HCG
      - frozen 30-34 hr post HCG
   3) Remove Regu-Mate from feed
      PMS 500-1000 IU SC 24 hr post last Regu-Mate
      feeding
      AI 12 and 24 hr post first standing estrus for
      gilts or
      24 and 36 hr for sows.

b) Breed Cycling Gilts or Sows at Natural Estrus
   Abort at 13-40 days pregnancy
   10-15mg Lutalyse or 175-250 mcg Estrumate IM
   5-10mg Lutalyse or 75-175 mcg Estrumate IM 12 hr
   post first Lutalyse or Estrumate injection.
   500-1000 IU PMS SC 12 hr post Lutalyse or
   Estrumate
   500-1000 IU HCG IM 72-84 hr post PMS
   AI twice - 24 and 36 hr post HCG
   or
   AI once - liquid 28-32 hr post HCG
   - frozen 30-34 hr post HCG

PMS and/or HCG optional in which case AI 24 and 36 hr post
first standing estrus.