Gilt in Heat
shows vulva development
Gilt in Standing Heat, Ears Erect, Body Rigid
• SUPEROVULATION PROCEDURE
• Observation of first estrus
• Day 16 – Administer 5 ml dose IM PG600 (contains 400 IU Serum Gonadotropin (PMSG) + 200 IU Chorionic (HCG)) Induces fertile estrus.
• Seventy-two hours later administer 1 ml dose (hCG) human chorionic gonadotropin to induce ovulation.
• AI Breed gilts every 12 hours when in heat.
• Surgical recovery of embryos via oviduct or uterus, depending on the desired stage of development.
The Pig is Walked up the Ramp into the Squeeze Chute/Administered 6ml TARK (anesthetic inj. cocktail)
The Pig is Rolled From the Squeeze Chute to the Surgery Cart
Administration of 4ml TARK Into the Ear Vein Via a 21 Gauge Butterfly Cannula
Placement of Endonasal Tubes into the Nares of the Pig
Removal of Body Hair From the Surgical Site
Betadine Scrubs to prepare surgical site/Leg rope restraint
Final Hair Removal with Razor
Cleanse Surgical Site with 70% Alcohol
Hand Scrub prior to surgery
Flushing Media is removed from incubator and poured into syringe
Surgery to Collect Early Stage Embryos
Pig is Maintained with Halothane Anesthesia During the Surgery
Incision is made on abdomen of pig between umbilicus and last pair of teats.
Mid-Lateral 2-3” Incision Puncturing Peritoneum to Expose the Uterus or Oviduct
Expose one horn of the uterus
Passage of Cannula into the Fimbria
Insertion of Oviduct Flushing Cannula into Infundibulum of the Oviduct
Cannula must be into the infundibulum to ensure complete recovery of embryos.
The Cannula is Held into a 50 ml Tube that will Collect the Flushing Media Containing the Embryos
Penetrate uterine lumen and move through utero-tubular junction and into the oviduct with blunt-end needle
Blunt-end needle administering media into the oviduct
15 mls of Flushing Media is Administered the First Few ML contain the embryos
Ovary and numerous corpus luteum, the bloody appearance indicates rupture of the CL at ovulation and release of an egg.
Skin Suture to Close Surgical Site
n=20
18 gilts cycled
Avg – 33 Corpus Luteum/gilt
81% Oviductal Recovery
88% Uterine Recovery (n=2)
50% made it to surgery
(Superovulated)
Surgical Embryo Recovery
The End