References on the Administration of Follicle Stimulating Hormone Using ALZET® Osmotic Pumps

ALZET Comments: Follicle stimulating hormone, porcine; Saline; Mice (nude); 2004; 13 days; Dose (porcine FSH (62.5 or 125 U/ml); animal info (Female nude mice (Crlj:CD1-Foxn1nu));

ALZET Comments: Follicle stimulating hormone, porcine; mice; 2004; 13 days; Controls were non-grafted; replacement therapy (Estradiol); Therapeutic indication (Follicular development, oocyte maturation, fertilization); Dose (62.5 U/mL);

ALZET Comments: Follicle stimulating hormone, porcine; SC; Sheep; 1003D; Animal info (aoudad, aka Barbary, female); multiple pumps used (2); "the traditional procedures for superovulation in domestic ruminants are complicated and difficult to perform in wild females because the procedure requires many physical contact and repetitive procedures, i.e., the administration of FSH two times per day. Thus, we choose to deliver FSH using osmotic pumps to minimize such manipulations... and we considered that it was the best approach for wild ruminant females and most likely represents a more "physiological" delivery method, with the continuous administration of FSH rather than blood level spikes." pg 152-153.

ALZET Comments: Follicle stimulating hormone, porcine; Mice; 2004; 2 weeks; animal info (5-6 weeks); Therapeutic indication (xenografting); Dose (62.5 U/mL);

ALZET Comments: Follicle stimulating hormone, human, recomb.; SC; Rat; 2001; 2 weeks; Animal info (LBNF1, male); pumps replaced after 1 week.

ALZET Comments: Follicle stimulating hormone; Saline; SC; Rat; 1003D; animal info (60–70 g immature female rats); post op. care (Buprenorphine analgesic); “We achieved the best results using immature females and continuous diffusion of FSH by Alzet osmotic minipumps implanted sub-cutaneously.” Pg. 142;

ALZET Comments: Follicle stimulating hormone; SC; Rat; Animal info (Sprague-Dawley, female, 28-30 days old).

ALZET Comments: Follicle stimulating hormone; Saline; SC; Mice; 2004; 30 days; Controls received mp w/ vehicle; post op. care (buprenorphine); animal info (male, C57BL/6J, 16 wks old).

ALZET Comments: Follicle stimulating hormone, recomb. human; PBS; SC; Rat; 2001; 2 weeks; Controls received sham implant; pumps replaced every week; animal info (male LBNF1, 9-12 wk old); testes irradiated.

ALZET Comments: Follicle stimulating hormone, porcine; SC; Rat; 1003D; Comparison of SC injections vs. mp; peptides; animal info (female, Sprague-Dawley CD, 4-6 wk old).

ALZET Comments: Follicle stimulating hormone; SC; Rat; 2001; Comparison of PMSG by IP injections vs. mp; peptides; animal info (female Lewis, Wistar-Kyoto, SHRSP, Sprague-Dawley, 28-35 days old).

ALZET Comments: Follicle stimulating hormone; SC; Rat; 2001;

ALZET Comments: Follicle stimulating hormone; Saline; SC; Rat; 1003D; 3 days; Detailed procedures for priming and surgery.

P5095: P. S. Duggal, et al. Effects of leptin administration and feed restriction on thecal leucocytes in the preovulatory rat ovary and the effects of leptin on meiotic maturation, granulosa cell proliferation, steroid hormone and PGE(2) release in cultured rat ovarian follicles. REPRODUCTION 2002;123(891-898
ALZET Comments: Follicle stimulating hormone; Saline; SC; Rat; 3 days; human FSH used; endocrinology.

ALZET Comments: Follicle stimulating hormone; SC; Rat; 54-60 hours; Comparison of ip injections vs. mp; endocrinology.

ALZET Comments: Chorionic gonadotropin hormone, human; follicle stimulating hormone; Monkey (baboon); 5 days; animal info (normally cycling adult female baboon);

ALZET Comments: Follicle stimulating hormone, human;; Saline;; SC;; Rat;; 3 days;; Controls received mp w/ vehicle; functionality of mp verified by plasma progesterone and estradiol levels (result of FSH administration); peptides;

ALZET Comments: Follicle stimulating hormone; SC; rabbit; 1003D; 3 days; functionality of mp verified by serum levels; peptides.

ALZET Comments: Follicle stimulating hormone, porcine; pig; 2ML1; 7 days; controls received mp w/ saline.

ALZET Comments: Follicle stimulating hormone, recomb. human; PBS; Rat; 7 days; controls received mp w/saline; replacement therapy (hypophysectomy); peptides.
ALZET Comments: Follicle stimulating hormone, recombinant; Rat; 48 hours; replacement therapy (hypophysectomy); peptides.

ALZET Comments: Follicle stimulating hormone, human; Luteinizing hormone; PBS; Albumin, bovine serum; SC; hamster; 2001; 4 days; controls received mp w/ vehicles only; agents infused alone and in combination; human LH used.

ALZET Comments: Luteinizing hormone; ACTH, human; Thyroid-stimulating hormone, rat; Follicle stimulating hormone, rat; Growth hormone, rat; Prolactin, ovine; SC; mice; 2001; 7 days; controls received mp w/ vehicles; replacement therapy (hypophysectomy); peptides.

ALZET Comments: Follicle stimulating hormone; SC; Rat; no duration posted; replacement therapy (hypophysectomy); peptides.

ALZET Comments: Follicle stimulating hormone; SC; cattle; 7 days; no comment posted.

ALZET Comments: Follicle stimulating hormone; PBS; SC; Rat; 7 days; replacement therapy (hypophysectomy).

ALZET Comments: Follicle stimulating hormone; Gonadotrophin, human chorionic; SC; Rat; 2001; 3, 4, 7 days; peptides.

ALZET Comments: Follicle stimulating hormone; Gonadotrophin, human chorionic; Saline; SC; Rat; 2001; 1 day; pumps removed and reimplanted into different animals.

ALZET Comments: Luteinizing HRH; Follicle stimulating hormone, ovine; SC; Rat; 2002; 2 weeks; peptides; ovine LHRH used.

ALZET Comments: Luteinizing hormone; Follicle stimulating hormone; SC; Rat; 2001; 72 hours; FSH-P, Folltropin, Oragen, Folligon; horse and porcine LH used.

ALZET Comments: Follicle stimulating hormone; SC; Rat; 76 hours; no comment posted.

**ALZET Comments:** Follicle stimulating hormone, ovine; Albumin, bovine serum; PBS; IP; Rat; 2001; no duration posted; dose-response; functionality of mp verified by plasma levels.


**ALZET Comments:** Follicle stimulating hormone, porcine; Gonadotrophin, human chorionic; Saline, sterile; SC; Rat; 2001; 72 hours; comparison of sc PMSG injections vs. mp; peptides.


**ALZET Comments:** Follicle stimulating hormone, ovine; Luteinizing hormone; Saline; IP; hamster; 2001; 8 days; controls left untreated; dose-response (graph); peptides; ovine LH used.


**ALZET Comments:** Follicle stimulating hormone; Rat; 2001; 60 hours; comparison of bid sc injections vs. mp; 'short half-life of FSH-A requires... continuous infusion... results establish the efficacy of FSH in causing superovulation when infused continuously.' (p.517).


**ALZET Comments:** Follicle stimulating hormone; Saline; SC; cattle; 2ML1; 7 days; comparison of im injections vs. mp infusion; peptides.

P0520: F. Garza, et al. Luteinizing hormone increases the number of ova shed in the cyclic hamster and guinea-pig. J. Endocrinol 1984;101(289-298

**ALZET Comments:** Gonadotrophin, pregnant mare serum; Luteinizing hormone; Follicle stimulating hormone, ovine; Gonadotrophin, human chorionic; Albumin, bovine serum; PBS; SC; Guinea pig; hamster; mice; Rat; 2001; 2-5 days; comparison of agents effects; replacement therapy (hypophysectomy); agents admin. singly; peptides; bovine, ovine, & human LH used.


**ALZET Comments:** Follicle stimulating hormone; Growth hormone, ovine; Luteinizing hormone; Prolactin, ovine; Thyroid-stimulating hormone; Borate; Peanut oil; SC; Rat; 5 days; replacement therapy (hypophysectomy); simultaneous infusion of testosterone & estradiol implants w/ mp infusion of polypeptides; pulsed delivery of agents (intermittent w/ vehicle); peptides; ovine LH used.


**ALZET Comments:** Enkephalin analog DADLE; Follicle stimulating hormone; Growth hormone, bovine; Growth hormone, rat; Pituitary extract; Prolactin, bovine; Prolactin, rat; Thyroid-stimulating hormone; Water; SC; Rat; 1701; 1 week; peptides.