



References on the Administration of Deoxycorticosterone Using ALZET® Osmotic Pumps

Q9022: M. Tian, *et al.* Adiponectin attenuates kidney injury and fibrosis in deoxycorticosterone acetate-salt and angiotensin II-induced CKD mice. *American Journal of Physiology Renal Physiology* 2018;315(3):F558-F571

Agents: Angiotensin II; Deoxycorticosterone acetate **Vehicle:** Saline; **Route:** SC; **Species:** Mice; **Pump:** 1002; **Duration:** 3 weeks;

ALZET Comments: Dose (1 ng/min/g); animal info (Transgenic Mice); Blood pressure measured via tail cuff method; 120 mmHg - 145 mmHg; Angiotensin II aka Ang II, Deoxycorticosterone acetate aka DOCA; dependence;

Q6066: D. J. Morris, *et al.* Glucocorticoids and gut bacteria: "The GALF Hypothesis" in the metagenomic era. *Steroids* 2017;125(1-13)

Agents: Chenodeoxycholic acid, progesterone, 11b-hydroxy-, corticosterone, deoxy-, corticosterone, 3 α ,5 α -TH-, progesterone, 3 α ,5 α -TH-11 β -hydroxy- **Vehicle:** Not Stated; **Route:** SC; **Species:** Rat; **Pump:** Not Stated; **Duration:** Not Stated;

ALZET Comments: steroidal derivatives of corticosterone; Review presents the role of gut microbial metabolism of endogenous adrenocorticosteroids as a contributing factor in the etiology of essential hypertension.

P3238: M. J. Lobo, *et al.* Effect of chronic intravenous injection of steroid hormones on body weight and composition of female rats. *Biochem. Molec. Biol. Intl* 1993;29(2):349-358

Agents: Progesterone; Cortisol; Cortisone; Corticosterone; Dehydroepiandrosterone; Androstenedione, 4-; Androstendiol, 5-; Testosterone; Nortestosterone, 19-; Estradiol, B-; Estrone; Estriol; Deoxycorticosterone **Vehicle:** PEG 400; **Route:** IV (lower cava); **Species:** Rat; **Pump:** 2002; **Duration:** 15 days;

ALZET Comments: controls received mp with PEG; no stress (see pg. 351); pumps placed into peritoneal cavity and sutured to musculature; surgical wound sprinkled with sulphathiazol

P0612: R. Phillips, *et al.* Effect of mineralocorticoids and glucocorticoids on compensatory adrenal growth in rats. *American Journal of Physiology Endocrinology and Metabolism* 1985;248(4):E450-E456

Agents: Aldosterone; Fluorocortisol acetate, 9a-; Corticosterone; Deoxycorticosterone; Dexamethasone **Vehicle:** Ethanol; Propylene glycol; Water; **Route:** SC; **Species:** Rat; **Pump:** 2001; **Duration:** 3 days;

ALZET Comments: replacement therapy (unilateral adrenalectomy); each mp used twice, 3 days in one animal, then 3 days in another; cannot tell if stability/concentration of ald. determined by RIA before or after exp

P0194: P. Komanicky, *et al.* Hypertensinogenic potencies of aldosterone and deoxycorticosterone in the rat. *Hypertension* 1982;4(1):140-145

Agents: Aldosterone acetate; Deoxycorticosterone acetate **Vehicle:** Ethanol; Propylene glycol; Water; **Route:** SC; **Species:** Rat; **Pump:** 1701; **Duration:** 3 weeks;

ALZET Comments: additional pump implanted after 7 and 14 days adjacent to the 'spent' pumps

P0182: J. Carroll, *et al.* The relationship between plasma 18-hydroxy-11-deoxycorticosterone levels and production of hypertension in the rat. *J. Steroid Biochem* 1981;14(989-995)

Agents: Deoxycorticosterone, 18-OH-; Deoxycorticosterone acetate, 11- **Vehicle:** Ethanol; Propylene glycol; Water; **Route:** SC; **Species:** Rat; **Duration:** 3 weeks; 2 days;

ALZET Comments: Pumps replaced on days 7 & 14 in Exp. 1

P0140: J. Carroll, *et al.* 5 α -dihydro-11-deoxycorticosterone: effect on blood pressure in the rat. *Steroids* 1981;37(1):111-120

Agents: Deoxycorticosterone acetate; Deoxycorticosterone acetate, 11-; Deoxycorticosterone, 5 α -dihydro-; Deoxycorticosterone, 5 α -dihydro-11- **Vehicle:** Ethanol; Propylene glycol; **Route:** SC; **Species:** Rat; **Duration:** 7 days;

ALZET Comments: no comment posted



P0061: P. C. Will, *et al.* Polyethylene glycols as solvents in implantable osmotic pumps. *Journal of Pharmaceutical Sciences* 1980;69(6):747-749

Agents: Aldosterone; Corticosterone; Deoxycorticosterone acetate; Dexamethasone acetate; Estradiol, 17B-; Hydrocortisone; Progesterone; Spironolactone; Testosterone **Vehicle:** PEG; PEG 400; PEG 600; **Route:** IP; **Species:** Rat; **Pump:** 1701; **Duration:** Not Stated;

ALZET Comments: 3-7 days aldosterone, 6 days PEG only; replacement therapy (adrenalectomy)