References on the Administration of Cholecystokinin Using ALZET® Osmotic Pumps


ALZET Comments: Amylin, Cholecystokinin-8, AC3174, AC170236, AC170222; DMSO, water; SC; Rat; 14 or 28 days; Controls received mp w/ vehicle; animal info (Diet-induced Obese Rats); functionality of mp verified by plasma levels; Vehicle was 50% DMSO:50% water; Multiple pumps per animal (2); AC170236 is a CCK2R-selective agonist; Therapeutic indication (Obesity); Dose: amylin (50 μg/kg/day), AC3174 (10 μg/kg/day), CCK-8 (100 μg/kg/day).


ALZET Comments: Cholecystokinin octapeptide; Saline; SC; Rat; 8 weeks; Controls received mp w/ vehicle; animal info (Sprague Dawley, male, 6 wks old, STZ induced diabetes); pumps replaced after 4 weeks; peptides; cholecystokinin octapeptide also known as CCK-8S; long-term study.


ALZET Comments: Cholecystokinin-8S; cholecystokinin-8; gastrin-17; SC; Mice; 2,6 days; Comparison of single SC gastrin-17 injection vs. mp; peptides; mp incubated overnight in 0.9% NaCl at room temperature prior to implantation.


ALZET Comments: Cholecystokinin-8; Saline; BSA; SC; Rat; 1003D; 72-74 hours; Peptides.


ALZET Comments: Cholecystokinin; peptides; review article: pump mentioned on p. 399.


ALZET Comments: Cholecystokinin-8S; BSA; SC; Rat; 2001; 2002; 2ML 2; 36 hours, 3, 7, 28 days; controls received mp w/ saline or DMSO; peptides.


ALZET Comments: Cholecystokinin-8S; Devazepide; Albumin, bovine serum; DMSO; SC; Rat; 2001; 2002; 2ML2; 1003D; 36 hours, 3, 7, 28 days; controls received mp w/ saline or DMSO; peptides.

**ALZET Comments:** Cholecystokinin-8; Devazepide; Cholecystokinin-8S; DMSO; Albumin, bovine serum; SC; Rat; 2001; 2002; 2ML2; 1003D; 3, 7, 28 days; 36 hrs; controls received mp w/NaCl or DMSO; pumps replaced after 14 days; peptides.

**P3671:** P. E. Mann, et al. Investigation into the role of cholecystokinin (CCK) in the induction and maintenance of maternal behavior in rats. Horm. Behav 1995;29(392-406

**ALZET Comments:** Cholecystokinin-8; Saline, physiological; IP; CSF/CNS; Rat (pregnant); 2001; no duration posted; controls received saline; peptides; non-pregnant rats were ovariectomized.


**ALZET Comments:** Cholecystokinin-8; cholecystokinin-4; cholecystokinin-4 analogs; IP; mice; 2001; 8 days; controls received no surgery or mp with saline; functionality of mp verified by residual volume; peptides.


**ALZET Comments:** Cholecystokinin-8; MK-329; Albumin; Saline; DMSO; SC; Rat; 2002; 10 days; peptides; devazepide is a cholecystokinin receptor antagonist, aka L-364,718 and MK-329.


**ALZET Comments:** MK-329; Cholecystokinin 8-sulfate; DMSO; Water; Albumin, bovine serum; Saline; SC; Rat; 2002; 7 weeks, 4-7 hours; long-term study, pumps replaced every 10th day; peptides; devazepide is L-364, 718 or MK-329 and is a CCK-A receptor antagonist.


**ALZET Comments:** Gastrin; Pentagastrin; Cholecystokinin-8S; Tiotidine; Saline; SC; Guinea pig; 2001; 7 days; peptides.

**P3235:** A. Linden, et al. Relationship between the concentration of cholecystokinin-like immunoreactivity in plasma and food intake in male rats. Physiol. Behav 1990;48(8):859-863

**ALZET Comments:** Cholecystokinin-8; IP; 2001; no duration posted; controls received mp with saline; comparison of injections vs. mp; peptides; infusion produced more physiological levels than did injection.


**ALZET Comments:** Cholecystokinin antagonist; DMSO; Water; SC; Guinea pig; 2001; 72 hours; agent is L364,718; 'L364,718 given an a constant infusion... successfully ameliorated the progression of acute 'traumatic pancreatitis.' ' (p. 56).


**ALZET Comments:** Cholecystokinin-8; L-364,718; Albumin, human serum; DMSO; SC; Rat; 2002; 2ML2; 7 weeks; controls received mp w/ DMSO only or no treatment; long-term study, pumps replaced every 12 days; peptides; 80% DMSO used; L-364,718 is a CCK antagonist; 2 mps used - one with CCK, one with L364,718.


**ALZET Comments:** Atrial natriuretic factor; cholecystokinin; Granulocyte-colony stimulating factor.; glucagon; insulin; interleukin-2; interleukin-3; melatonin; nerve growth factor; neurotensin; prolactin; theophylline; CSF/CNS; IA (femoral); intrasplenic; IP; SC; no duration posted; peptides; ALZA-authored, review of peptide delivery issues and applications; tissue perfusion (spleen).
ALZET Comments: Cholecystokinin-8; Saline; IP; Rat; 2001; no duration posted; controls received mp with saline; peptides.

ALZET Comments: Cholecystokinin octapeptide; Saline; CSF/CNS; Rat; 2001; 8 days; peptides.

ALZET Comments: Cholecystokinin octapeptide; Saline; IV (jugular); Rat; 2ML1; 7 days; controls received mp w/ saline; 2 doses of agent infused; peptides.

ALZET Comments: Cholecystokinin octapeptide; Saline; SC; Rat; 2001; 7 days; controls received mp w/ saline; 2 doses of agent infused; peptides.

ALZET Comments: Acetylcholine chloride; Cefalotin; Cholecystokinin tetrapeptide; Epinephrine HCl; Bombesin; Endorphin; Enkephalin, methionine-; Norepinephrine HCl; Saline; Sodium bisulfite; CSF/CNS (hypothalamus); Rat; 2002; 5-20 weeks; Cholinergic agent; pumps replaced periodically; mp connected to perm. steel cannula in hypothalamus; cannula fitted w/removable protector; (see p.217); agents infused sep. (cefalotin infused w/each agent); long-term study; peptides.

ALZET Comments: Cholecystokinin octapeptide-8-sulfate; Saline; CSF/CNS; Rat; 2001; 5 days; controls received mp w/ saline; study of effects of CCK on sleep; stability of CCK-8S verified; peptides.

ALZET Comments: Cholecystokinin, glutaryl-; Cholecystokinin, pyroglutamyl-; Cholecystokinin octapeptide; HCl; Saline; Sodium bicarbonate; CSF/CNS (suprachiasmatic nucleus); Rat; 1701; 7 days; controls received mp w/saline; mp connected to catheter in SCN; peptides.

ALZET Comments: Cholecystokinin octapeptide; Saline; CSF/CNS; Rat; 2001; no duration posted; mp connected to cannula in left ventricle; comparison of ICV injections via microsyringe vs. mp infusion; peptides.

ALZET Comments: Cholecystokinin octapeptide; Glucagon; Saline; SC; Rat; 2002; 14 days; controls received mps w/ saline; peptides.

ALZET Comments: Cholecystokinin-33; Water; SC; Rat; no duration posted; 2 + 2 days; pump in 1 rat for 2 days, removed & implanted in 2nd rat for 2 days; peptides.

ALZET Comments: Cholecystokinin 8-sulfate; Saline; IP; Rat; 2001; 2002; 1 or 2 weeks; peptides.
ALZET Comments: Cholecystokinin octapeptide; Saline; SC; mice; 2002; 2, 7 days; peptides.

ALZET Comments: Cholecystokinin; SC; Rat; 2 days; preliminary experiment listed @end of Gen. Disc.; peptides.