References on the Administration of Substance P Using ALZET® Osmotic Pumps

Q1997: H. L. Carthew, et al. SUBSTANCE P-INDUCED CHANGES IN CELL GENESIS FOLLOWING DIFFUSE TRAUMATIC BRAIN INJURY. Neuroscience 2012;214(;):78-83
ALZET Comments: Substance P; CSF, artificial; CSF/CNS; Rat; 1003D; 3 days; Controls received mp w/ vehicle; animal info (Sprague Dawley, adult, male, 380 g); ALZET brain infusion kit used; incorrectly listed Model 2001 as 100 ul volume.

ALZET Comments: Substance P; PBS; CSF/CNS (rostral ventromedial medulla); Rat; 1003D; 24 hours; Controls received mp w/ vehicle; animal info (Male Wistar, 275-300 g, STZ induced diabetes); peptides.

ALZET Comments: Substance P; PBS; BSA; CSF/CNS; Rat; 2001; 6 days; Controls received mp w/ vehicle or inactive control peptide; animal info (Male Wistar, 275-300 g, STZ induced diabetes); peptides.

ALZET Comments: Substance P; neurokinin-1 receptor antagonist; Ear (round window); Guinea pig; 2002; Post op. care (piperacillin sodium); animal info (Hartley); pump was connected to a PE catheter filled with artificial perilymph for a 12-hour delayed infusion; tissue perfusion (round window).

ALZET Comments: Thorphan; SR140333; substance P; Ethanol; water, distilled; SC; Rat; 2001; 7 days; Controls received mp w/ vehicle or no treatment; no stress (see pg. 216); enzyme inhibitor (peptidase (NEP/CD10)); immunology; animal info (male, Wistar, 21 days old); 10% EtOH used; "We chose to delivery SP, SR140333, and Thorphan by a continuous route of administration, because this modality closely mimics the pathophysiological state observed in immune-mediated diseases." (p. 216).

ALZET Comments: Substance P; L703,606; CSF, artificial; CSF/CNS; Rat; 2001; 5 days; Controls received mp w/ vehicle; ALZET brain infusion kit used; peptides; ischemia (cerebral); animal info (male, SHR, MCAO, 250-350 g); NK1R antagonist.

ALZET Comments: Substance P; Saline; heparin; IA (femoral); Rat; 2001D; 24 hours; Controls received mp w/ vehicle; good methods (p. 758); animal info (male, Sprague-Dawley, 225-250g); pain.

ALZET Comments: Substance P; SR140333; Water, distilled; DMSO; SC; Rat; 2001; 7 days; Controls received mp w/ vehicle; functionality of mp verified by SP plasma levels; peptides; 1% DMSO used.

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Bibliography

ALZET Comments: Substance P; SR140333; Water, distilled; DMSO; SC; Rat (neonate); 2001; 7 days; Controls received mp w/ one of two vehicles; functionality of mp verified by plasma levels of (sp); dose-response (p.241); peptides; SR140333 (A NK-1R antagonist) was diluted in 1% DMSO distilled water, alone, or in combination with (sp); pups were 28 days old.

ALZET Comments: Transforming growth factor-a; Brain-derived neurotrophic factor; Vasoactive intestinal polypeptide; Peptide, histidine-isoleucine; Gastrin releasing peptide; Substance P; Neuromedin-C; Neurokinin A; Neuropeptide Y; Somatostatin; Antrin; Cholecystokinin; Thyrotropin-releasing hormone; Neurotensin; Neuromedin N;; CSF, artificial; CSF/CNS (third ventricle); hamster; 2002; 18-22 days; peptides.

ALZET Comments: Substance P, [D-Arg1, D-Phe5, D-trp7,9, Leu11]-; PBS; SC; Mice (nude); 1007D; 14 days; controls received mp w/PBS; functionality of mp verified by HPLC quantitation of residual volume; comparison of ip injections vs mp; pumps replaced after 7 days; stability verified for 14 days by in vitro testing at 37C; mp placed near tumor; cancer (lung).

ALZET Comments: Substance P, [D-Arg1, D-Phe5, D-trp7,9, Leu11]-; Substance P(6-11), [Arg6, D-Trp7,9, MePhe8]-; Water, sterile; SC; Mice (nude); 1007D; 7 days; controls received mp w/ water; comparison of ip injections vs. mp; cancer (lung); toxicology; peptides; pump implanted in flank contralateral to tumor; higher dose, with less lethality, could be given via pump.

ALZET Comments: Angiotensin II; Substance P; CSF, artificial; CSF/CNS; Rat; 2002; 1 month; 2 weeks; controls received mp w/a CSF; pumps replaced at 14 days; immunology; peptides.

ALZET Comments: Substance P; Saline; SC; mice; 2001; 7 days; functionality of mp verified by serum levels of substance P; peptides.

ALZET Comments: Substance P; Saline; SC; mice; 2001; 7 days; functionality of mp verified by serum levels; cancer/immunology; peptides.

ALZET Comments: Somatostatin; Substance P; CSF/CNS; Rat; 8 days; portion of tubing connecting mp to icv cannula was externalized to allow shut off of flow; stability of agents verified; concomitant haloperidol admin.; peptides.

ALZET Comments: Neurotensin; Substance P; Thyrotropin-rel. factor; Saline; CSF/CNS; Rat; 8 days; portion of tubing connecting mp to icv cannula was externalized to allow shut off of flow; stability of agents verified; concomitant haloperidol admin.; peptides.

ALZET Comments: Dopamine HBr, 6-hydroxy-; Substance P; CSF/CNS (occipital cortex); cat (kitten); 1 week; comparison of agents effects; ALZET not mentioned but author cites previous mp papers as methods reference; cannot be positive substance P deliv. by mp; peptides.