

Chemical and physical laboratory data¹⁻⁴

Hydromorphone +

Bupivacaine^c

Dimenhydrinate^d

Lorazepam^d

Ondansetron^c

Prochlorperazine^d

Dexamethasone sodium phosphate^e (incompatible at high concentrations of both drugs)

Physical laboratory data only^{5,6}

Hydromorphone +

Atropine

Diazepam

Diphenhydramine

Glycopyrronium^e

Haloperidol

Hyoscine hydrobromide

Hydroxyzine

Ketorolac

Levomepromazine (methotrimeprazine)

Metoclopramide

Midazolam

Phenobarbital

Observational data only^{7,8}

Hydromorphone + (2 other drugs)

Cyclizine and octreotide^f

Haloperidol and hyoscine hydrobromide

Hyoscine hydrobromide and octreotide

Ketamine and midazolam^c

Metoclopramide and midazolam^c

Metoclopramide and ondansetron

Hydromorphone + (3 other drugs)

Cyclizine, haloperidol and midazolam^f

Glycopyrronium, haloperidol and promethazine

Glycopyrronium, haloperidol and octreotide

Glycopyrronium, metoclopramide and octreotide

Hyoscine hydrobromide, metoclopramide and octreotide

Ketamine, metoclopramide and midazolam^c

Haloperidol, hyoscine hydrobromide and promethazine (incompatible)

a. includes two reports of *incompatibility (in italics)*

b. diluent = 5% glucose unless otherwise stated

c. diluent = 0.9% saline

d. diluent = none

e. diluent = unknown

f. diluent = water for injection (WFI).

- 1 Christen C *et al.* (1996) Stability of bupivacaine hydrochloride and hydromorphone hydrochloride during simulated epidural coadministration. *American Journal of Health-System Pharmacy.* **53**: 170–173.
- 2 Walker S *et al.* (1993) Stability and compatibility of combinations of hydromorphone and dimenhydrinate, lorazepam or prochlorperazine. *Canadian Journal of Hospital Pharmacy.* **46**: 61–65.
- 3 Trissel LA *et al.* (1994) Compatibility and stability of ondansetron hydrochloride with morphine sulfate and with hydromorphone hydrochloride in 0.9% sodium chloride injection at 4, 22, and 32 degrees C. *American Journal of Hospital Pharmacy.* **51**: 2138–2142.
- 4 Walker SE *et al.* (1991) Compatibility of dexamethasone sodium phosphate with hydromorphone hydrochloride or diphenhydramine hydrochloride. *American Journal of Hospital Pharmacy.* **48**: 2161–2166.
- 5 Ingallinera TS *et al.* (1979) Compatibility of glycopyrrolate injection with commonly used infusion solutions and additives. *American Journal of Hospital Pharmacy.* **36**: 508–510.
- 6 Chandler S *et al.* (1996) Combined administration of opioids with selected drugs to manage pain and other cancer symptoms: initial safety screening for compatibility. *Journal of Pain and Symptom Management.* **12**: 168–171.
- 7 Dickman A *et al.* (2002) *The Syringe Driver: Continuous Subcutaneous Infusions in Palliative Care.* OUP, Oxford.
- 8 www.pallcare.info Syringe Driver Compatibility Database accessed 01/06.