CLAIMS

1. Use of a biocompatible ice slurry in the manufacture of a medicament for providing reversible inhibition of one or more peripheral nerves to a subject in need thereof, wherein the biocompatible slurry is to be provided to the peripheral nerves for a duration sufficient to inhibit the peripheral nerves in the subject, wherein said inhibition is reversible.

2. The use of claim 1, wherein the biocompatible ice slurry comprises ice particles and a lactated Ringer's solution, electrolyte solution or a lactated electrolyte solution.

3. The use of claim 2, wherein the biocompatible ice slurry further comprises hetastarch or dextrose.

4. The use of claim 2, wherein the biocompatible ice slurry further comprises 0.1% to 20% glucose.

5. The use of claim 2, wherein the biocompatible ice slurry further comprises 0.1% to 20% glycerol.

6. The use of claim 2, wherein the biocompatible ice slurry further comprises 0.1% to 6% hetastarch.

7. The use of claim 1, wherein the biocompatible ice slurry comprises ice particles and saline.

8. The use of claim 7, wherein the biocompatible ice slurry further comprises 0.1% to 20% glycerol.

9. The use of claim 7, wherein the biocompatible ice slurry further comprises 0.1 % to 20% dextrose.

10. The use of claim 7, wherein the biocompatible ice slurry further comprises 0.1% to 5% ethanol.

11. The use of claim 7, wherein the biocompatible ice slurry further comprises 0.1% to 10% poly vinyl alcohol.

12. The use of claim 7, wherein the biocompatible ice slurry further comprises at least one sugar, ion, polysaccharide, lipid, oil, lysolecithin, amino acid, caffeine, surfactant, antimetabolite, detergent or a combination thereof.

13. The use of claim 12, wherein the at least one sugar is glucose, mannitol, hetastarch, sucrose, sorbitol or a combination thereof.

14. The use of claim 12, wherein the at least one ion is calcium, potassium, hydrogen, chloride, magnesium, sodium, lactate, phosphate, zinc, sulfur, nitrate, ammonium, carbonate, hydroxide, iron, barium, salts thereof or a combination thereof.

15. The use of claim 12, wherein the at least one oil is canola oil, coconut oil, corn oil, cottonseed oil, flaxseed oil, olive oil, palm oil, peanut oil, safflower oil, soybean oil, sunflower oil or a combination thereof.

16. The use of claim 12, wherein the surfactant is a detergent.

17. The use of claim 12, wherein the detergent is at least one of deoxycholate, sodium tetradecyl sulphate, polidocanol, deoxycholate, sodium tetradecyl sulphate, polidocanol, polysorbate 20 (polyoxyethylen (20) sorbitan monolaurate), polysorbate 40 (polyoxyethylene (20) sorbitan monopalmitate), polysorbate 60 (polyoxyethylene (20) sorbitan monostearate), polysorbate 80 (polyoxyethylene (20) sorbitan monooleate), sorbitan ester, poloxamater or a combination thereof.

18. The use of claim 1, wherein the biocompatible ice slurry comprises a peritoneal dialysis solution.

19. The use of claim 1, wherein the biocompatible ice slurry is provided along the perineural sheath of a peripheral nerve.

20. The use of claim 1, wherein the peripheral nerves are subcutaneous nerves.

21. The use of claim 1, wherein the peripheral nerves are autonomic nerves.

22. The use of claim 21, wherein the autonomic nerves are sympathetic nerves, parasympathetic nerves or enteric nerves.

23. The use of claim 21, wherein the peripheral nerves are somatic nerves.

24. The use of claim 23, wherein the somatic nerves are sensory nerves, motor nerves, cranial nerves, or spinal nerves.

25. The use of claim 1, wherein the biocompatible ice slurry cools the nerves to between 5°C and -40°C.

26. The use of claim 1, wherein the biocompatible ice slurry has a first equilibration temperature of between 4°C and -30°C.

27. The use of claim 1, wherein the biocompatible ice slurry has a second equilibration temperature of between 2°C and -30°C.

28. The use of claim 2, wherein the ice particles are spherical or round with a diameter of 1 mm to 0.01 mm.

29. The use of claim 1, wherein the biocompatible ice slurry further comprises an agent selected from the group consisting of a vasoconstricting agent, corticosteroid, a nonsteroidal antiinflammatory drug (NSAID), anesthetic, glucocorticoid, a lipoxygenase inhibitor, and combinations thereof.

30. The use of claim 29, wherein the vasoconstricting agent is epinephrine or norepinephrine.

31. The use of claim 29, wherein the anesthetic is selected from the group consisting of lidocaine, bupivacaine, prilocaine, tetracaine, procaine, mepivicaine, etidocaine, QX-314 and combinations thereof.

32. The use of claim 1, wherein the biocompatible ice slurry is to be injected.

33. The use of claim 32, wherein the biocompatible ice slurry is to be provided to the peripheral nerves of the subject by injection into or around the nerve or nerves selected from the group consisting of the cutaneous nerve, trigeminal nerve, ilioinguinal nerve, intercostal nerve, interscalene nerve, intercostal nerve, supraclavicular nerve, infraclavicular nerve, axillary nerve, paravertebral nerve, transverse abdominis nerve, genitofemoral nerve, lumbar plexus nerve, femoral nerve, pudental nerve, celiac plexus nerve, and sciatic nerve.

34. The use of claim 1, wherein the biocompatible ice slurry is to be provided to the peripheral nerves of the subject by tumescent pumping of the slurry.