CLAIMS

1. An effective amount of a composition comprising a solution containing 1% to 15% of a bicarbonate salt and an amount greater than zero but less than 1.5 mg/100 ml calcium salt selected from the group consisting of calcium acetate, calcium chloride, calcium gluconate, calcium phosphate, and calcium sulfate for use in relieving pain without numbness in an area of a patient administered with or containing local or regional anesthetic to provide numbing effect.

2. The composition of claim 1, wherein the composition comprises from 4% to 6% sodium bicarbonate.

3. The composition of claim 1, wherein the composition comprises 4.8% sodium bicarbonate.

4. The composition of claim 1, wherein the composition comprises 1.11 mg/100 ml to 1.5 mg/100 ml calcium chloride.

5. The composition of claim 1, wherein the composition comprises 4.8% sodium bicarbonate and 1.11 mg/100 ml calcium chloride.

6. The composition of claim 1, wherein the volume of the composition is administered to the patient in an amount of 1-15 ml.

7. The composition of claim 1, wherein the volume of the composition is administered to the patient in an amount of 2 to 4 ml for a dental procedure.

8. The composition of claim 1, wherein the composition is administered to the patient simultaneously with the local or regional anesthetic agent.

9. The composition of claim 1, wherein the composition is administered concomitantly with the local or regional anesthetic.

10. The composition of claim 1, wherein an analgesic effect without medically significant numbing effect is provided for up to 72 hours.

11. The composition of claim 1, wherein an analgesic effect without medically significant numbing effect is provided for up to 24 hours.

12. The composition of claim 1, wherein the area of the patient is the torso, stomach, chest, head, scalp, neck, face, nose, ear, shoulder, back, arm, leg, thigh, ankle, knee, foot, toe, hand, wrist, finger, buttocks, groin or a joint.

13. The composition of claim 1, wherein the area of the patient is an incision or cut.

14. The composition of claim 1, wherein the composition is administered multiple times.

15. The composition of claim 1, wherein the regional or local anesthetic is administered topically, intradermally, intramuscularly, intravenously, subcutaneously, epidurally, by infusion, or by injection.

16. The composition of claim 1, wherein the buffer composition is administered topically, intradermally, intramuscularly, intravenously, subcutaneously, epidurally, by infusion, or by injection.

17. The composition of claim 1, wherein a ratio of the amount of the composition administered to the amount of regional or local anesthetic agent administered is at least 0.4:1.

18. The composition of claim 1, wherein a ratio of the amount of the composition administered to the amount of regional or local anesthetic agent administered is 1:1, 2:1, 3:1, 4:1, 5:1, 6:1, 7:1, 8:1, 9:1, or 10:1.

19. The composition of claim 1, wherein the composition provides analgesia without the need of an additional opiate, an amide or an amine analgesic.

20. The composition of claim 1, wherein the composition is used in conjunction with an NSAID or opioid analgesic or other analgesic agent.

21. The composition of claim 1, wherein the anesthetic agent is selected from carbocaine, lidocaine and a lidocaine derivative.

22. The composition of claim 21, wherein the anesthetic agent is a lidocaine derivative selected from QX-314, QX-222, or N-beta-phenylethyl lidocaine quaternary ammonium bromide.

23. The composition of claim 21, wherein the local or regional anesthetic is lidocaine.

24. The composition of claim 21, wherein the local or regional anesthetic is lidocaine with epinephrine.

25. The composition of claim 1, wherein the composition has a pH of greater than 7.0.

26. The composition of claim 1, wherein the composition has a pH range from 7.0 to 11.0.

27. The composition of claim 1, wherein the composition has a pH range from 7.6 to 8.6.

28. The composition of claim 1, wherein the composition is administered before, during, or following a surgical or dental procedure selected from: cancer or tumor surgery, trauma surgery, cosmetic surgery, abdominal surgery, head or neck surgery, orthopedic surgery, back or spine surgery, arthroscopic surgery, brain surgery, ear, nose or throat surgery, eye surgery, amputation, liposuction, rhinoplasty, graft or transplant surgery, a biopsy, skin surgery, breast surgery, prosthetic surgery, fetal surgery, gastroenterologic surgery, thoracic surgery, bladder surgery, heart surgery, liver surgery, pancreas surgery, kidney surgery, lung surgery, gallstone surgery, hernia surgery, shoulder, arm, leg, pelvis, hip, knee, elbow or ankle surgery, uterine or routine child birth with epidural, vaginal surgery, cesarean section procedure or episiotomy, blood vessel surgery, prostate surgery, colon or rectal surgery, laser surgery, routine dental procedure, oral surgery, periodontal surgery, dental implant or tooth repair or extraction.

29. The composition of claim 1, wherein the patient is a mammal.

30. The composition of claim 1, wherein the patient is a human.

31. An effective amount of a composition comprising 1% to 15% of a bicarbonate salt in aqueous solution, and an amount greater than zero but less than 1.5 mg/ml calcium salt selected from the group consisting of calcium acetate, calcium chloride, calcium gluconate, calcium phosphate, and calcium sulfate for use in relieving pain without numbness by

reversing a medically significant numbing effect of a local or regional anesthetic agent administered to a patient, without reversing pain relief or pain control effect of the anesthetic agent administered to the patient.

32. A composition for reversing a medically significant degree of numbness resulting from administration of a local or regional anesthetic agent to a patient, without reversing analgesic effect of the anesthetic agent, said composition comprising 1% to 15% of a bicarbonate salt in aqueous solution, and 1.11 to 1.5 mg/100 ml calcium salt selected from the group consisting of calcium acetate, calcium chloride, calcium gluconate, calcium phosphate, and calcium sulfate.

33. The composition of claim 32, wherein the composition is an aqueous solution comprising 4.8% sodium bicarbonate and 1.11 mg/100 ml calcium chloride.

34. The composition of claim 23, wherein the composition has a pH of greater than 7.

35. The composition of claim 23, wherein the pH is from 7 and 11.

36. The composition of claim 23, wherein the pH is from 7.6 to 8.6.

37. A kit for providing in a patient, local or regional analgesia without a medically significant degree of numbness, wherein the area has previously been administered, or contains, a local or regional anesthetic agent, said kit comprising a composition of claim 20.

38. The kit of claim 37, wherein the kit further comprising a device for determining pH of the composition in reconstituted form.

39. The kit of claim 38, wherein the pH-determining device is integral with a container housing the composition.