What is Claimed is:

1. A therapeutic composition comprising:

a) a chloride salt;

b) a source of bicarbonate;

~~c) a source of hypochlorite; and,~~

~~d~~c) an antimicrobial agent selected from the group consisting of biguanides, bisbiguanides, triguanides and analogs thereof; and

d) an oxygen producing compound;

wherein the concentration of the chloride salt in the composition is in the range of from about 0.3M to about 0.8M;

wherein the concentration of the source of bicarbonate in the composition is from about 0.5M to about 1.2M;

wherein the composition is alkaline; and,

wherein the ratio of the concentration of the source of bicarbonate to the concentration of the chloride salt is greater than 2.

~~wherein the amount of the chloride salt in the composition is sufficient to render the composition hypertonic; and, wherein the composition is alkaline.~~

2. The composition of claim 1, wherein the concentration of the antimicrobial agent is in the range of from about 0.1% (w/v) to about 1% (w/v).

3. The therapeutic composition of claim 1 or 2, wherein the concentration of the oxygen-producing compound is in the range of about 0.001% (v/v) to about 0.01% (v/v).

~~2. The composition of claim 1, wherein~~

~~the concentration of the chloride salt in the composition is at least 200 mM;~~

~~the concentration of carbonate in the composition is at least 4.9M;~~

~~the concentration of the source of hypochlorite is at least 0.5% (w/w); and,~~

~~the concentration of the antimicrobial agent is at least 0.5% (w/w).~~

~~3~~4. The composition of any one of claims-1-3, wherein the chloride salt is selected from the group consisting of sodium chloride and potassium chloride.

~~4~~5. The composition of any one of claims 1-4, wherein the source of bicarbonate is selected from the group consisting of sodium bicarbonate, calcium bicarbonate, ammonium bicarbonate and sodium percarbonate.

~~5. The composition of claim 1, wherein the source of hypochlorite is N-chloro-tosylamide.~~

6. The composition of any one of claims 1 to 5, wherein the antimicrobial agent is chlorhexidine.

7. The composition of any one of claims 1 to 6, comprising a source of hypochlorite at a concentration in the range of from about 0.05% (w/v) to about 0.3% (w/v).

8. The composition of claim 7, wherein the source of hypochlorite is N-chloro-tosylamide.

~~7~~9. The therapeutic composition of any one of claims ~~claim~~ 1 to 8, wherein the composition ~~further~~ comprises at least one compound selected from the group consisting of a ~~compound that produces oxygen, a~~ poloxamer, a surfactant and a polyhydroxy acid.

10. The therapeutic composition of claim 9, wherein the concentration of poloxamer is in the range of from about 0.6% (w/v) to about 1.2% (w/v);

the concentration of surfactant is in the range of from about 001% (w/v) to about 0.1% (w/v); and;

the concentration of polyhydroxy acid is in the range of about 0.05% (w/v) to about 0.2% (w/v).

~~8. The therapeutic composition of claim 7, wherein~~

~~the concentration of the oxygen-producing compound in the composition is in the range of about 0.1% (v/v) to about 1% (v/v);~~

~~the concentration of poloxamer in the composition is at least 4% (w/w);~~

~~the concentration of surfactant in the composition is at least about 0.1% (w/w);~~

~~the concentration of polyhydroxy acid in the composition is at least about 0.2% (w/w); and,~~

~~the concentration of surfactant in the composition is at least 0.1% (w/w).~~

~~9~~11. The composition of any one of claims 1 to 10, wherein the pH of the composition is in the range of about 7.2 to about 9.5.

~~10. A therapeutic composition comprising:~~

~~a) a salt selected from sodium chloride and potassium chloride;~~

~~b) a source of carbonate selected from the group consisting of sodium bicarbonate, potassium bicarbonate, calcium bicarbonate and ammonium bicarbonate;~~

~~c) N-chloro tosylamide;~~

~~d) chlorhexidine;~~

~~e) a source of peroxide selected from hydrogen peroxide, carbamide peroxide and sodium percarbonate;~~

~~f) poloxamer 237;~~

~~g) lauramine oxide; and,~~

~~h) gluconolactone.~~

1~~1~~2. A therapeutic composition comprising:

a) a chloride salt;

b) a source of bicarbonate;

~~c) a source of hypochlorite; and,~~

~~d~~c) an antimicrobial agent selected from the group consisting of biguanides, bisbiguanides, triguanides and analogs thereof; and

d. an oxygen-producing compound;

wherein the concentration of the chloride salt in the composition is in the range of about 4M to about 8M;

wherein the concentration of the source of bicarbonate in the composition is in the range of from about 8M to about 11.5M;

wherein the ratio of the concentration of the source of bicarbonate to the concentration of the chloride salt is greater than 2; and,

wherein the composition is alkaline.

~~wherein the amount of the chloride salt in the composition is sufficient to render the composition hypertonic; and, wherein the composition is alkaline, for use in the manufacture of a medicament for the treatment of a wound, a bacterial infection, a viral infection, a fungal infection, an inflammation, angiogenesis, or pain reduction.~~

13. The composition of claim 12, wherein the chloride salt is selected from the group consisting of sodium chloride and potassium chloride.

14. The composition of any one of claims 12 or 13, wherein the source of bicarbonate is selected from the group consisting of sodium bicarbonate, calcium bicarbonate, ammonium bicarbonate and sodium percarbonate.

15. The composition of any one of claims 12 to 14, wherein the antimicrobial agent is chlorhexidine.

16. The composition of any one of claims 12 to 15, wherein the concentration of the antimicrobial agent is in the range of from about 1% (w/v) to about 10% (w/v).

17. The composition of any one of claims 12-16, wherein the concentration of the oxygen-producing compound is in the range of from about 0.01% (v/v) to about 0.1% (v/v).

18. The composition of any one of claims 12 to 17, comprising a source of hypochlorite at a concentration of from about 0.5% (w/v) to about 3% (w/v).

19. The composition of claim 18, wherein the source of hypochlorite is N-chloro-tosylamide.

20. The composition of any one of claims 12 to 19, wherein the composition comprises at least one compound selected from the group consisting of a poloxamer, a surfactant, and a polyhydroxy acid.

21. The composition of claim 20, wherein the concentration of poloxamer is in the range of from about 6% (w/v) to about 12% (w/v);
the concentration of surfactant is in the range of from about 0.1% (w/v) to about 1% (w/v); and;
the concentration of polyhydroxy acid is in the range of from about 0.5% (w/v) to about 2% (w/v).

22. The composition of any one of claims 12 to 21, wherein the pH of the composition is in the range of about 7.2 to about 9.5.

23. The composition of any one of claims 1 to 22, wherein the composition is formulated as a liquid, a paste, a gel, a putty, a foam, an ointment, a cream, a spray, a toothpaste, or in the form of an oral care composition.

24. A medical device comprising the composition of any one of claims 1 to 23.

25. An implantable material comprising the composition of any one of claims 1 to 23.

26. A biomaterial scaffold product comprising the composition of any one of claims 1 to 23.

27. The composition of any one of claim 1 to 23, the medical device of claim 24, the implantable material of claim 25 or the biomaterial scaffold product of claim 26, for use in the manufacture of a medicament for the treatment of a wound, a bacterial infection, a viral infection, a fungal infection, an inflammation, angiogenesis, or pain reduction.

28. Use of the composition of any one of claims 1 to 23, the medical device of claim 24, the implantable material of claim 25, or the biomaterial scaffold product of claim 26, for the treatment of a wound, a bacterial infection, a viral infection, a fungal infection, inflammation, angiogenesis, or pain reduction.

29. Use of the composition of any one of claims 1 to 23, the medical device of claim 24, the implantable material of claim 25, or the biomaterial scaffold product of claim 26, in a dental procedure, a surgical procedure or a dermatological procedure.

~~12. Use of a therapeutic composition comprising:~~

~~a) a chloride salt;~~

~~b) a source of bicarbonate;~~

~~c) a source of hypochlorite; and,~~

~~d) an antimicrobial agent selected from the group consisting of biguanides, bisbiguanides, triguanides and analogs thereof;~~

~~for the treatment of a wound, a bacterial infection, a viral infection, a fungal infection, inflammation, angiogenesis, or pain reduction.~~