in the prior art discussed in the Background section or associated with such subject matter should not be treated as prior art unless expressly stated to be prior art. Instead, the discussion of any subject matter in the Background section should be treated as part of the inventor's approach to the particular problem, which in and of itself may also be inventive.

SUMMARY

[0006] The present disclosure describes the combination of colloidal silver particles and botulinum toxin. In one aspect the present invention refers to a composition comprising botulinum toxin (BTX), colloidal silver particles and water. In another aspect, the present invention refers to a kit comprising a container comprising botulinum toxin (BTX) and a container comprising colloidal silver particles and water. In yet another example, the present invention refers to a cosmetic treatment comprising botulinum toxin (BTX), colloidal silver particles and water to be administered to a subject in need thereof. In a further aspect, the present invention refers to botulinum toxin (BTX), colloidal silver particles and water for use in medical treatment. In some examples, the present disclosure discloses compositions, kits, and methods of use that include both colloidal silver particles and botulinum toxin. For instance, in one example, the present disclosure describes compositions comprising botulinum toxic and colloidal silver particles, including the following examples:

1) A composition comprising botulinum toxin (BTX), colloidal silver particles and water.
2) The composition of embodiment 1 wherein the BTX is botulinum type A neurotoxin.
3) The composition of embodiment 1 wherein the BTX is botulinum type B neurotoxin.
4) The composition of embodiment 1 comprising 100-600 units of BTX.
5) The composition of embodiment 1 comprising a concentration of colloidal silver of 1 to 100 ppm.
6) The composition of embodiment 1 wherein the colloidal silver is characterized by particle size, and more than 50% of the colloidal silver particles have a maximum dimension of less than 0.015 micrometers.
7) The composition of embodiment 6 wherein at least 90% of the colloidal silver particles have diameters between 0.005 micrometers and 0.015 micrometers.
8) The composition of embodiment 1 wherein the colloidal silver particles comprise metal silver of formula Ag(0) and ionic silver of a formula selected from Ag(I), Ag(II), and Ag(III).
9) The composition of embodiment 1 having a total concentration of silver of between about 5 and 40 parts per million, wherein said silver is in the form of a stable and colorless colloidal suspension of silver particles having an interior of

CLAIMS

What is claimed is:

1. A composition comprising botulinum toxin (BTX), colloidal silver particles and water.

2. The composition of claim 1 wherein the BTX is botulinum type A neurotoxin.

3. The composition of claim 1 wherein the BTX is botulinum type B neurotoxin.

4. The composition of claim 1 comprising 100-600 units of BTX.

5. The composition of claim 1 comprising a concentration of colloidal silver of 1 to 100 ppm.

6. The composition of claim 1 wherein the colloidal silver is characterized by particle size, and more than 50% of the colloidal silver particles have a maximum dimension of less than 0.015 micrometers.

7. The composition of claim 6 wherein at least 90% of the colloidal silver particles have diameters between 0.005 micrometers and 0.015 micrometers.

8. The composition of claim 1 wherein the colloidal silver particles comprise metal silver of formula Ag(0) and ionic silver of a formula selected from Ag(I), Ag(II), and Ag(III).

9. The composition of claim 1 having a total concentration of silver of between about 5 and 40 parts per million, wherein said silver is in the form of a stable and colorless colloidal suspension of silver particles having an interior of metallic silver and an exterior surface of ionic silver oxide, wherein at least 75% of the silver particles have diameters between 0.005 micrometers and 0.015 micrometers.

10. A kit comprising a container comprising botulinum toxin (BTX) and a container comprising colloidal silver particles and water.

11. A cosmetic treatment comprising administering botulinum toxin (BTX), colloidal silver particles and water to a subject in need thereof.

12. Botulinum toxin (BTX), colloidal silver particles, and water, for use in a medical treatment.