CLAIMS

What is claimed is:

1. A method for mitigating risk of transmission of an infectious disease comprising:

providing a substantially transparent shield component, wherein the substantially transparent shield component comprises a magnifying aspect;

providing a chamber component; and

providing a suctioning component for suctioning aerosol attached to the interior surface of said shield component out of the space between said shield component and an individual occupying an object over which the shield component has been placed;

wherein the chamber component is located approximately two-thirds of the distance from a distal end of the shield component to a proximal end of the shield component, such location approximating the mouth and nasal region of the individual; and

wherein the chamber component comprises diodes emitting ultraviolet light capable of disinfecting aerosols entering the chamber component from the space between said shield component and an individual occupying the object.

2. The method of claim 1, wherein the substantially transparent shield component is operatively attached to a dolly and is extendable from said dolly over the object.

3. The method of claim 1, wherein the substantially transparent shield component is operatively attached to a chair and is extendable over an individual occupying the chair.

4. The method of claim 1, wherein the substantially transparent shield component is operatively attached to a ceiling in a room and is extendable downward from said ceiling over an individual located in said room.

5. The method of claim 1, wherein the substantially transparent shield component is operatively attached to a seat in an aircraft and is extendable over an individual occupying said seat.

6. The method of claim 1, wherein the substantially transparent shield component is operatively attached to a seat in an automobile and is extendable over an individual occupying said seat.

7. The method of claim 1, wherein the substantially transparent shield component is operatively attached to a bed and is extendable over an individual occupying said bed.

8. The method of claim 1, wherein the magnifying aspect consists of one or more of the following: magnifying glass, light emitting diodes, and a camera communicatively connected to a display screen.

9. The method of claim 8, wherein said display screen comprises a liquid crystal display.

10. The method of claim 1, wherein the substantially transparent shield component, the chamber component, and the suctioning component comprise a single integrated unit.

11. The method of claim 10, wherein the integrated unit further comprises storage for replacement substantially transparent shields.

12. The method of claim 1, further comprising a docking station for providing electrical power to the substantially transparent shield component, the chamber component, and the suctioning component.

13. A method for mitigating risk of transmission of an infectious disease comprising:

providing a single integrated unit comprising:

a substantially transparent shield component, wherein the substantially transparent shield component comprises a magnifying aspect,

a chamber component, and

a suctioning component for suctioning aerosol attached to the interior surface of said substantially transparent shield component out of the space between said shield component and an individual occupying an object over which the shield component has been placed,

wherein the chamber component is located approximately two-thirds of the distance from a distal end of the shield component to a proximal end of the shield component, such location approximating the mouth and nasal region of the individual,

wherein the chamber component comprises diodes emitting ultraviolet light capable of disinfecting aerosols entering the chamber component from the space between said shield component and an individual occupying the object.

14. The method of claim 13, wherein the integrated unit is mountable to a wall.

15. The method of claim 13, wherein the magnifying aspect consists of one or more of the following: magnifying glass, light emitting diodes, and a camera communicatively attached to a display screen.

16. The method of claim 13, wherein the substantially transparent shield component is placed approximately 10 inches from the individual's face.

17. A system for mitigating risk of transmission of an infectious disease comprising:

a substantially transparent shield component, wherein the substantially transparent shield component comprises a magnifying aspect;

a chamber component: and

a suctioning component for suctioning aerosol attached to the interior surface of said shield component out of the space between said shield component and an individual occupying an object over which the shield component has been placed;

wherein the chamber component is located approximately two-thirds of the distance from a distal end of the shield component to a proximal end of the shield component, such location approximating the mouth and nasal region of the individual;

wherein the chamber component comprises diodes emitting ultraviolet light capable of disinfecting aerosols entering the chamber component from the space between said shield component and an individual occupying the object.

18. The system of claim 17, wherein the substantially transparent shield component is operatively attached to a dolly and is extendable from said dolly over an object.

19. The system of claim 17, wherein the substantially transparent shield component is operatively attached to a chair and is extendable over an individual occupying the chair.

20. The system of claim 17, wherein the substantially transparent shield component is operatively attached to a ceiling in a room and is extendable downward from said ceiling over an individual located in said room.

21. The system of claim 17, wherein the substantially transparent shield component is operatively attached to a seat in an aircraft and is extendable over an individual occupying said seat.

22. The system of claim 17, wherein the substantially transparent shield component is operatively

attached to a seat in an automobile and is extendable over an individual occupying said seat.

23. The system of claim 17, wherein the substantially transparent shield component is operatively attached to a bed and is extendable over an individual occupying said bed.

24. The system of claim 17, wherein the suctioning component comprises a device capable of creating a vacuum, wherein said device comprises an air filter.

25. The system of claim 17, further comprising a light source located on an interior surface of the substantially transparent shield component.

26. The system of claim 17, wherein the substantially transparent shield component, the chamber component, and the suctioning component comprise a single integrated unit.

27. The system of claim 26, wherein the integrated unit further comprises storage for replacement substantially transparent shields.

28. The system of claim 17, further comprising a docking station for providing electrical power to the system.

29. A system for mitigating risk of transmission of an infectious disease comprising:

a single integrated unit comprising:

a substantially transparent shield component,

a chamber component, and

a suctioning component for suctioning aerosol attached to the interior surface of said substantially transparent shield component out of the space between said shield component and an individual occupying an object over which the shield component has been placed,

wherein the chamber component is located approximately two-thirds of the distance from a distal end of the shield component to a proximal end of the shield component, such location approximating the mouth and nasal region of the individual,

wherein the chamber component comprises diodes emitting ultraviolet light capable of disinfecting aerosols entering the chamber component from the space between said shield component and an individual occupying the object.

30. The system of claim 29, wherein the integrated unit is mountable to a wall.

31. The system of claim 29, wherein the substantially transparent shield component comprises magnifying material.

32. The system of claim 29, further comprising lighting located on an interior surface of the substantially transparent shield component.

33. The system of claim 29, further comprising a docking station wherein the docking station provides power to the system.

34. A system for mitigating risk of transmission of an infectious disease comprising:

a substantially transparent shield component wherein said substantially transparent shield component further comprises a camera communicatively connected to a display screen;

a chamber component: and

a suctioning component for suctioning aerosol attached to the interior surface of said shield component out of the space between said shield component and an individual occupying a chair over which the shield component has been placed;

wherein the chamber component is located approximately two-thirds of the distance from a distal end of the shield component to a proximal end of the shield component, such location approximating the mouth and nasal region of the individual;

wherein the chamber component comprises diodes emitting ultraviolet light capable of disinfecting aerosols entering the chamber component from the space between said shield component and an individual occupying the object.

35. The system of claim 34, wherein the substantially transparent shield component is operatively attached to the chair by a mechanical arm.

36. The system of claim 35, wherein said mechanical arm is collapsible and extendable.

37. The system of claim 34, wherein said display screen is located within the substantially transparent shield component.

38. The system of claim 37, wherein said display screen comprises a liquid crystal display screen.

39. The system of claim 34, wherein the suctioning component comprises a hose connected to the substantially transparent shield component.

40. The system of claim 34, wherein the substantially transparent shield component comprises a dental tray.

41. The system of claim 34, wherein the substantially transparent shield component is connected to a dental lamp.

42. The system of claim 34, wherein the substantially transparent shield component comprises glass or plastic.

43. The system of claim 34, wherein the substantially transparent shield component, the chamber component, and the suctioning component, comprise a single integrated unit.

44. The system of claim 34, wherein the substantially transparent shield component is between approximately four feet and approximately four feet, six inches in length.

45. The system of claim 34, wherein the substantially transparent shield component comprises material on each of the left-hand side and the right-hand side of the shield component extending from the surface of the shield component toward the chair so as to at least partially enclose an occupant of the chair.

46. The system of claim 35, wherein the mechanical arm is:
operatively attached to a ceiling; and
extends downward from said ceiling;
and wherein said arm is connected to, and extends alongside, a dental lamp.

47. The system of claim 34, wherein the substantially transparent shield component comprises light emitting diodes exuding light toward the interior of the individual's mouth.

48. The system of claim 43, wherein said integrated unit is mountable to a wall.

49. The system of claim 42, wherein the substantially transparent shield component comprises plastic and wherein said plastic is selected from the group consisting of: polymethyl methacrylate, cellulose acetate butyrate, polycarbonate, and glycol modified polyethylene terephthalate.

50. The system of claim 45, wherein:

the substantially transparent shield component further comprises an aperture on each of the left-hand and right-hand sides of the substantially transparent shield component extending from the surface of the shield component toward the chair.

51. A system for mitigating risk of transmission of an infectious disease comprising:

a substantially transparent shield component:

a chamber component; and

a suctioning component for suctioning aerosol attached to the interior surface of said shield component out of the space between said shield component and an individual occupying a seat in an aircraft over which the shield component has been placed;

wherein the substantially transparent shield component is operatively attached to said seat; and

wherein said suctioning component comprises a hose extending from said substantially transparent shield component to a ventilation system existing within the aircraft;

wherein the chamber component is located approximately two-thirds of the distance from a distal end of the shield component to a proximal end of the shield component, such location approximating the mouth and nasal region of the individual;

wherein the chamber component comprises diodes emitting ultraviolet light capable of disinfecting aerosols entering the chamber component from the space between said shield component and an individual occupying the seat.

52. The system of claim 51, further comprising a release mechanism for detaching the substantially transparent shield component from the seat.