What is claimed is:

1. A vial adapter configured to withdraw a fluid from a fluid container with a syringe, the vial adapter comprising:

a wall having a plurality of prongs extending distally from the wall, at least one of the plurality of prongs having a protruding inner flange configured to lock to a neck of a fluid container;

a stake projecting distally from the wall and defining a length, the stake having at least one inlet extending at least partially along the length of the stake;

a lumen extending from the at least one inlet through the wall, the lumen defining an opening in the wall; the lumen being in fluid communication with the at least one inlet, the lumen being configured to house a needle, the needle extending at least partially through the stake and being in fluid communication with the at least one inlet; and,

an elongated body extending proximally from the wall defining a longitudinal cavity in fluid communication with the lumen, the cavity defining an inner sidewall, an outer sidewall, and a proximal opening, the inner sidewall of the longitudinal cavity having a distal internal bevel to aid insertion of the needle, the elongated body including a connecting member configured to connect to a syringe connecting member.

2. The vial adapter of claim 1 wherein the cavity further defines an inner tapered surface, the inner tapered surface creates an interference fit with a needle hub on the syringe.

3. The vial adapter of claim 1, wherein the lumen and the cavity define an inner channel through which the needle passes through.

4. The vial adapter of claim 3, wherein the needle does not extend beyond the at least one inlet of the stake.

5. The vial adapter of claim 1, wherein the at least one inlet of the stake does not extend beyond a sealing member of the fluid container when the fluid container is fully depressed against the wall and the stake punctures the sealing member when the sealing

member is fully depressed against the wall, causing fluid communication from the fluid container through the at least one inlet and lumen.

6. The vial adapter of claim 1, wherein the at least one inlet of the stake extends beyond a sealing member of the container when the fluid container is fully depressed against the wall.

7. The vial adapter of claim 1, wherein a cross-section of the plurality of protruding inner flanges has a substantially rhombic cross section.

8. The vial adapter of claim 1, wherein the prongs elastically deform when a sealing member of the fluid container is pressed against the stake, the prongs removably locking the fluid container when the fluid container is fully depressed against the wall.

9. The vial adapter of claim 1, wherein the prongs elastically deform when a sealing member of the fluid container is pressed against the stake, the prongs permanently locking the fluid container when the fluid container is fully depressed against the wall.

10. The vial adapter of claim 1, further comprising a removable seal disposed over the prongs.

11. The vial adapter of claim 1, wherein the connecting member of the elongated body comprises a male thread.

12. The vial adapter of claim 11, wherein the connecting member of the elongated body comprise luer fittings.

13. The vial adapter of claim 1, wherein the connecting member of the elongated body comprises a flange configured to receive a twist-locking receptacle of a syringe.

14. A fluid extraction kit comprising a vial adapter, a fluid container and a syringe configured to withdraw a fluid from the fluid container with the syringe

the fluid container having a neck and a sealing member abutting the neck;

the syringe comprising a plunger rod and a barrel, the barrel defining an open proximal end through which the plunger rod is disposed and a distal end, the distal end defining a distal wall, the distal wall having a collar and an integrally formed needle hub through which a needle cannula is disposed within a lumen of the needle hub, the needle cannula and needle hub being in fluid communication with the barrel, the collar having a corresponding connection member;

the vial adapter comprising

a wall having a plurality of prongs extending distally from the wall, at least one of the plurality of prongs having a protruding inner flange configured to lock to the neck of the fluid container;

a stake having a tip projecting distally from the wall defining a length, the stake having at least one inlet extending at least partially along the length of the stake,

a lumen extending from the at least one inlet through the wall, the lumen defining an opening in the wall, the lumen being in fluid communication with the at least one inlet, the lumen being configured to house a needle, the needle extending at least partially through the stake and being in fluid communication with the at least one inlet; and

an elongated body extending proximally from the wall defining a longitudinal cavity, the cavity defining an inner sidewall, an outer sidewall, and a proximal opening, the inner sidewall of the longitudinal cavity having a distal internal bevel to aid insertion of the needle, the elongated body having a connecting member disposed longitudinally along an outer wall of the elongated body, the connecting member configured to removably secure the vial adapter to a syringe connecting member.

15. The fluid extraction kit of claim 14, wherein the cavity further defines an inner tapered surface, the inner tapered surface creating an interference fit with a needle hub on the syringe.

16. The fluid extraction kit of claim 14, wherein the lumen and the cavity define an inner channel through which the needle cannula of the syringe passes through, the needle cannula being non-removably press-fit into the needle hub of the syringe, the cannula not extending beyond the at least one inlet of the stake.

17. The fluid extraction kit of claim 14, wherein the at least one inlet of the stake does not extend beyond the sealing member when the fluid container is fully depressed against the wall and wherein the stake punctures the sealing member when the sealing member is fully depressed against the wall, providing fluid communication from the fluid container through the at least one inlet and lumen.

18. The fluid extraction kit of claim 14, wherein the prongs elastically deform when the sealing member of the fluid container is pressed against the stake, the prongs removably locking the fluid container when the fluid container is fully depressed against the wall.

19. The fluid extraction kit of claim 14, wherein the prongs elastically deform when the sealing member of the fluid container is pressed against the stake, the prongs permanently locking the fluid container when the fluid container is fully depressed against the wall.

20. The fluid extraction kit of claim 14, wherein the connecting member of the elongated body comprises a male thread and syringe connecting member comprises a female thread.