CLAIMS

1. A device to couple a vascular access device to a medical device, the device comprising:

a housing;

a body partially disposed within the housing, wherein the body comprises a distal end, a proximal end, and a lumen extending through the distal end and the proximal end, wherein the proximal end comprises a connector,

wherein the housing and the body are configured to slide axially towards each other to move the device from a retracted position in which the connector is enclosed within the housing to a projected position in which the connector is exposed proximal to the housing; and

a spring, wherein the spring comprises a distal end and a proximal end, wherein the distal end of the spring is coupled to the body, wherein the proximal end of the spring urges the housing proximally,

wherein the housing comprises a flap, wherein when the device is in the retracted position, the flap covers the connector, wherein in response to the housing moving distally from the retracted position, the flap opens.

2. The device of claim 1, wherein the flap comprises an antimicrobial compound, wherein when the device is in the retracted position, the antimicrobial compound contacts the connector.

3. The device of claim 1, wherein the distal end of the body comprises a luer connector.

4. The device of claim 1, further comprising a support structure comprising an elongated guide, wherein the housing comprises a flange, wherein in response to movement of the housing distally from the retracted position, the flange is configured to move along the elongated guide in a distal direction.

5. The device of claim 4, wherein the elongated guide comprises a stop, wherein the flange is configured to move along the guide in the distal direction when the flange is proximal to and spaced apart from the stop, wherein in response to movement of the housing in the distal direction from the retracted position and the flange contacting the stop, the housing and the support structure are configured to move together in the distal direction.

6. The device of claim 1, wherein the device is configured to lock in the projected position.

7. The device of claim 6, wherein in response movement of the body to a proximal position beyond the projected position, the device is configured to unlock and return to the retracted position.

8. A device to couple a vascular access device to a medical device, the device comprising:

a housing;

a body partially disposed within the housing, wherein the body comprises a distal end, a proximal end, and a lumen extending through the distal end and the proximal end, wherein the proximal end comprises a connector,

wherein the housing and the body are configured to slide axially towards each other to move the device from a retracted position in which the connector is enclosed within the housing to a projected position in which the connector is exposed proximal to the housing; and

a support structure comprising an elongated guide, wherein the housing comprises a flange, wherein in response to movement of the housing from distally from the retracted position, the flange is configured to move along the elongated guide in a distal direction, and

wherein the housing comprises a flap, wherein when the device is in the retracted position, the flap covers the connector, wherein in response to the housing moving distally from the retracted position, the flap opens.

9. The device of claim 8, wherein the elongated guide comprises a stop, wherein the flange is configured to move along the guide in the distal direction when the flange is proximal to and spaced apart from the stop, wherein in response to movement of the housing in the distal direction from the retracted position and the flange contacting the stop, the housing and the support structure are configured to move together in the distal direction.

10. The device of claim 8, further comprising a spring, wherein the spring comprises a distal end and a proximal end, wherein the distal end of the spring is coupled to the body, wherein the proximal end of the spring urges the housing proximally.

11. The device of claim 8, wherein the flap comprises an antimicrobial compound, wherein when the device is in the retracted position, the antimicrobial compound contacts the connector.

12. The device of claim 8, wherein the distal end of the body comprises a luer connector.

13. The device of claim 8, wherein the device is configured to lock in the projected position.

14. The device of claim 13, wherein in response movement of the body proximally beyond the projected position, the device is configured to unlock and return to the retracted position.