

CLAIMS

1. A valve repair device for repairing a native valve of a patient, the valve repair device comprising:
 - a first paddle;
 - a second paddle;
 - a pair of clasps disposed between the first paddle and the second paddle;
 - wherein the first paddle, the second paddle, and the pair of clasps are configured to attach the valve repair device to the native valve of the patient;
 - a barrier material extending from the first paddle to the second paddle.
2. The valve repair device of claim 1 wherein the barrier material is configured to prevent regurgitation of blood during the systolic phase.
3. The valve repair device of any one of claims 1-2 further comprising a spacer disposed between the first paddle and the second paddle.
4. The valve repair device of any one of claims 1-3 further comprising a pair of extension members attached to the barrier material.
5. The valve repair device of any one of claims 1-4 wherein the first paddle is attached to a cap, the second paddle is attached to the cap, and the barrier material is attached to the cap.
6. The valve repair device of any one of claims 1-5 wherein the barrier material comprises one or more pieces of a cloth material, a biocompatible material, bovine heart tissue, porcine heart tissue, or a plastic membrane.
7. The valve repair device of any one of claims 1-6 wherein the first paddle, the second paddle, and the pair of clasps are configured to attach the valve repair device to a native mitral valve.
8. A valve repair system for repairing a native valve of a patient, the valve repair system comprising:
 - a delivery sheath;

a valve repair device that is deployable to a native valve of the patient by the delivery sheath;

wherein the valve repair device comprises:

a first paddle;

a second paddle;

a pair of clasps disposed between the first paddle and the second paddle;

wherein the first paddle, the second paddle, and the pair of clasps are configured to attach the valve repair device to the native valve of the patient;

a barrier material extending from the first paddle to the second paddle.

9. The valve repair system of claim 8 wherein the barrier material is configured to prevent regurgitation of blood during the systolic phase.

10. The valve repair system of any one of claims 8-9 further comprising a spacer disposed between the first paddle and the second paddle.

11. The valve repair system of any one of claims 8-10 further comprising a pair of extension members attached to the barrier material.

12. The valve repair system of any one of claims 8-11 wherein the first paddle is attached to a cap, the second paddle is attached to the cap, and the barrier material is attached to the cap.

13. The valve repair system of any one of claims 8-12 wherein the barrier material comprises one or more pieces of a cloth material, a biocompatible material, bovine heart tissue, porcine heart tissue, or a plastic membrane.

14. The valve repair system of any one of claims 8-13 wherein the first paddle, the second paddle, and the pair of clasps are configured to attach the valve repair device to the native mitral valve.