

What is claimed is:

1. A medical thread insertion apparatus comprising:

an insertion path forming unit which comprises:

a pipe member comprising a pipe that is hollow and forms a path through which a medical thread is to be inserted, and

a support member comprising a support rod that is inserted into the pipe of the pipe member and has stiffness greater than stiffness of the pipe member; and

a medical thread supply unit which supplies a medical thread through the pipe member after the support member is removed from the insertion path forming unit;

wherein the pipe member comprises a coupling unit comprising a mount groove that is hollow and tapered and receives the medical thread supply unit therein,

wherein the medical thread supply unit comprises a medical thread retaining unit comprising a supply pipe that is hollow and retains the medical thread to be inserted therein,

wherein the medical thread retaining unit comprises a connector having a complementary shape to the mount groove of the pipe member, and

wherein the medical thread retaining unit is coupled to the mount groove via the connector.

2. The medical thread insertion apparatus of claim 1, wherein

an inclined insertion unit which is tapered is formed on an outer surface of an end portion of the pipe member.

3. The medical thread insertion apparatus of claim 2, wherein

a two-step inclined portion which is tapered at an angle greater than an angle of the inclined insertion unit is formed on an end portion of the inclined insertion unit.

4. The medical thread insertion apparatus of claim 2, wherein
the inclined insertion unit further comprises at least one cut line that is formed in parallel to an axial direction of the pipe member to branch the end portion of the pipe member.

5. The medical thread insertion apparatus of claim 1, wherein
a medical thread support for fixing the medical thread in the tissue of the living body is formed on an end portion of the medical thread.

6. The medical thread insertion apparatus of claim 5, wherein
the medical thread has a loop shape and the medical thread support is disposed at a position where both ends of the medical thread are adjoined.

7. The medical thread insertion apparatus of claim 5, wherein
the medical thread support has a truncated cone shape whose diameter increases away from a side where the medical thread is inserted toward an opposite side.

8. The medical thread insertion apparatus of claim 1, wherein

a diameter of an end portion of the medical thread at the side where the medical thread is to be inserted is greater than that of an opposite end portion of the medical thread.

9. The medical thread insertion apparatus of claim 1, wherein
the medical thread comprises barbs that obliquely protrude toward an end portion of the medical thread at a side where the medical thread is inserted.

10. The medical thread insertion apparatus of claim 7, wherein
a maximum diameter of the medical thread support is the same as or less than an inner diameter of the supply pipe.

11. The medical thread insertion apparatus of claim 1, wherein
a shoulder portion that protrudes inward in a radial direction is formed on an inner surface of the mount groove.

12. The medical thread insertion apparatus of claim 1, wherein
the pipe member comprises a coupling unit comprising a mount groove that is hollow and tapered and receives the medical thread supply unit therein, and
the medical thread supply unit comprises the medical thread and a medical thread support that is formed on an end portion of the medical thread and fixes the medical thread in the tissue of the living body.

13. A medical thread insertion surgery kit comprising:

the medical thread insertion apparatus according to any one of claims 1 to 12;
and

a push unit that is slidable in the pipe of the pipe member and pushes the medical thread through the pipe of the pipe member.

14. The medical thread insertion surgery kit of claim 13, wherein
the insertion path forming unit further comprises a through-hole forming unit for forming a through hole in a tissue of a living body.

15. The medical thread insertion surgery kit of claim 13, wherein
the push unit comprises a push rod that has a length great enough to pass through and escape from the insertion path forming unit and the medical thread supply unit.