CLAIMS

1. A medical vacuum sealing drainage device, comprising:

a porous foam soft pad (1); and

a drainage tube (2) arranged in the porous foam soft pad (1) and provided with a tail end extending outside the porous foam soft pad (1);

characterized in that

an elastic sealing rubber film (3) is arranged on the outer side of the porous foam soft pad (1);

a sealing opening (3a) for allowing the drainage tube (2) to extend out is formed on the elastic sealing rubber film (3);

the diameter of the opening part of the sealing opening (3a) is less than the outer diameter of a corresponding extending pipe.

2. The device of claim 1, **characterized in that** the sealing opening (3a) used for allowing the drainage tube (2) to extend out and formed on the elastic sealing rubber film (3) is a circle hole, the diameter of which is 0.3-4 mm less than the outer diameter of a corresponding extending pipe.

3. The device of claim 1, **characterized in that** the sealing opening (3a) used for allowing the drainage tube (2) to extend out and formed on the elastic sealing rubber film (3) is a pipe orifice, and the diameter of the opening part of the pipe orifice is 0.3-2 mm less than the outer diameter of a corresponding extending pipe.

4. The device of claim 3, **characterized in that** the sealing opening (3a) used for allowing tubes to extend out and formed on the elastic sealing rubber film (3) is a pipe orifice, the pipe orifice takes a shape of an inverted horn, the diameter of the opening part of the pipe orifice is 1-2 mm less than the outer diameter of the drainage tube (2), and the diameter of the bottom of the pipe orifice is 2-6 mm more than the outer diameter of the drainage tube (2).

5. The device of claim 3 or 4, **characterized in that** the sealing opening (3a) used for allowing tubes to extend out and formed on the elastic sealing rubber film (3) is a pipe orifice, an included angle between the sealing opening (3a) and a main body of the elastic sealing rubber film (3) is 15-90°.

6. The device of claim 1 or 2, **characterized in that** a plurality of small holes (2a) are formed on the side wall of the drainage tube (2).

7. The device of claim 3 or 4, **characterized in that** a plurality of small holes (2a) are formed on the side wall of the drainage tube (2).

8. The device of claim 1 or 2, **characterized in that** a single or a plurality of drainage tubes (2) are employed; multiple drainage tubes (2) are arranged evenly with a distance of 25-35 mm between each other, and are connected through a multi-way connector.

9. The device of claim 3 or 4, **characterized in that** a single or a plurality of drainage tubes **(2)** are employed; multiple drainage tubes (2) are arranged evenly with a distance of 25-35 mm between each other, and are connected through a multi-way connector.

10. The device of claim 1 or 2, **characterized in that** a flushing pipe (7) is arranged in the drainage tube (2), one end of the flushing pipe (7) extends to the inside of the drainage tube (2), the other end of the flushing pipe (7) is led out from the side wall at the tail end of the drainage tube (2), and a sealing cover (7a) is arranged at the tail end of the flushing pipe (7).

11. The device of claim 3 or 4, **characterized in that** a flushing pipe (7) is arranged in the drainage tube (2), one end of the flushing pipe (7) extends to the inside of the drainage tube (2), the other end of the flushing pipe (7) is led out from the side wall at the tail end of the drainage tube (2), and a sealing cover (7a) is arranged at the tail end of the flushing pipe (7).

12. An orthopedic vacuum sealing drainage device, comprising:

a porous foam soft pad (1), and

a drainage tube (2) arranged in the porous foam soft pad (1) and provided with a tail end extending outside the porous foam soft pad (1);

characterized in that

a first elastic sealing rubber film (3) is arranged on the outer side of the porous foam soft pad (1), a sealing opening (3a) for allowing the drainage tube (2) to extend out is formed on the first elastic sealing rubber film (3), the diameter of the opening part of the sealing opening (3a) is smaller than the outer diameter of the corresponding drainage tube (2);

a second elastic sealing rubber film (3) and a third elastic sealing rubber film (3) are arranged at puncture needles (9a) connected with an orthopaedic external fixation device (9), vertical pipe orifice shaped sealing openings (3a)

~~are formed on the second elastic sealing rubber film (3) and the third elastic sealing rubber film (3), and sleeved on the two puncture needles (9a) respectively; and~~

~~the second and the third elastic sealing rubber films (3) are placed on the first elastic sealing rubber film (3) or directly placed on the porous foam soft pad (1) for sealing in a covering manner.~~

~~13. The device of claim 12, **characterized in that** the sealing opening (3a) used for allowing the drainage tube (2) to extend out and formed on the first elastic sealing rubber films (3) is a pipe orifice, an included angle between the pipe orifice and a main body of the elastic sealing rubber film (3) is 15-90°.~~

~~14. The device of claim 12 or 13, **characterized in that** the vertical pipe orifice shaped sealing opening on the second and the third elastic sealing rubber films (3) takes a shape of an inverted horn, the diameter of the opening part of the pipe orifice is 0.3-2 mm less than the outer diameter of the puncture needles (9a), and the diameter of the bottom of the pipe orifice is 2-6 mm more than the outer diameter of the corresponding puncture needles (9a).~~

~~15. The device of claim 12 or 13, **characterized in that** a flushing pipe (7) is arranged in the drainage tube (2), one end of the flushing pipe (7) extends to the inside of the drainage tube (2), the other end of the flushing pipe (7) is led out from the side wall at the tail end of the drainage tube (2), and a sealing cover (7a) is arranged at the tail end of the sealing cover (7a).~~

~~16.~~ 1. A vacuum sealing drainage device used at the perineum, comprising

a porous foam soft pad (1), and

a drainage tube (2) arranged in the porous foam soft pad (1) and provided with a tail end extending outside the porous foam soft pad (1);

characterized in that

a first elastic sealing rubber film (3) is arranged on the outer side of the porous foam soft pad (1), a sealing opening (3a) for allowing the drainage tube (2) to extend out is formed on the first elastic sealing rubber film (3), and the diameter of the opening part of the sealing opening (3a) is smaller than the outer diameter of the corresponding drainage tube (2);

the vacuum sealing drainage device used at the perineum further comprises an anus inserting catheter (11), a fourth elastic sealing rubber film (3) is arranged at the position where the anus inserting catheter (11) penetrates a vacuum area of the vacuum sealing drainage device, and provided with a vertical pipe orifice shaped sealing opening (3a), the vertical pipe orifice shaped sealing opening (3a) is sleeved on the anus inserting catheter (11), and the fourth elastic sealing rubber film (3) is placed on the first elastic sealing rubber film (3) or directly placed on the porous foam soft pad (1) for sealing in a covering manner.

~~17.~~ 2. The device of claim ~~16~~1, **characterized in that**

an annular rubber air-filled or liquid-filled bag (11a) is arranged on the outer side at the front end of the anus inserting catheter (11);

an air or liquid guide pipe (11b) parallel to the anus inserting catheter (11) is also arranged; and

the front end of the air or liquid guide pipe (11b) is communicated with the rubber air-filled or liquid-filled bag (11a), the rear end of the air or liquid guide pipe (11b) extends outside the rear end of the anus inserting catheter (11),

and a sealing cover (11c) is arranged at the rear end of the air or liquid guide pipe (11b).

~~18.~~ 3. The device of claim ~~16~~ 1 or ~~17~~2, **characterized in that** a flushing pipe (7) is arranged in the drainage tube (2), one end of the flushing pipe (7) extends to the inside of the drainage tube (2), the other end of the flushing pipe (7) is led out from the side wall at the tail end of the drainage tube (2), and a sealing cover (7a) is arranged at the tail end of the flushing pipe (7).