Claims

1.- A medical device (100) suitable for assisting in liquid proof shielding of a catheter application area on the body of a living creature, the device comprising

- a base element (110) having a deformable first side (111) such that the base element is tightly placeable on a body area near the catheter application area, and a second side (113) opposite the first side (111)

- a top element (120) having a deformable first side (121) connectable with the second side (113) of the base element (110),

one of the base element (110) or the top element (120) being an element comprising a slit (112) for holding a catheter tube or infusion line and the other element comprising a protrusion (122) for closing the slit and for forming a feedthrough for the catheter when the elements are connected,

wherein a first portion of the element forming the slit (112) and the protrusion (122) is made of a first material and shaped for tightly fitting the catheter when it is in position and wherein the element forming the slit (112) and/or the protrusion (122) comprises a second portion formed in a second material, the second material being more soft and deformable than the first material, the second portion being adjacent the first portion and being arranged so as to form a further liquid sealing element for the catheter.

2.- A medical device according to claim 1, wherein the first portion of the element is embedded in the second portion of the element.

3.- A medical device according to any of the previous claims, the device furthermore comprising a foil (150) for covering the catheter application area, the foil comprising a catheter exit site placeable between the base element (110) and the top element (120).

4.- A medical device according to any of the previous claims, wherein the second portion made of the second material is deformable around the catheter tube or infusion line.

5.- A medical device (100) according to any of the previous claims, wherein one of the base element or the top element (110, 120)comprises also a second protrusion (123), the first protrusion (122) and the second protrusion (123) being made of the first material and being removable connectable on the other element.

6.- A medical device (100) according to any of the previous claims, wherein the top element (120) comprises a holding portion (124) for holding the top element (120) during manipulation.

7.- A medical device (100) according to claim 6, wherein the top element (120) comprises a first holding portion (124) and a second holding portion (125) for holding the top element (120)and wherein the first holding portion and the second holding portion are configured for, when pushing the holding portions simultaneously with respect to each other, opening the removable connection.

8.- A medical device (100) according to any of the previous claims, wherein the device furthermore comprises an adhesive material at one or more of the first side (111) of the base element (110), the second side (113) of the base element (110),the first side of the top element (120) such that the adhesive material assists in providing a liquid proof sealing.

9.- A medical device (100) according to any of the previous claims, wherein the adhesive material is a double-sided adhesive layer.

10.- A medical device (100) according to any of claims 8 to 9, wherein the adhesive material is at least located at a peripheral position of a foil (150) for covering the catheter application area.

11.- A medical device (100) according to any of the previous claims, the device comprising a closing element for closing the slit in absence of a catheter, the closing element being a full replacement piece having the same cross-section as the catheter or infusion line.

12.- A medical device (100) according to any of the previous claims, wherein the base element and the top element are made of watertight materials.

13.- A medical device (100) according to any of the previous claims, wherein the first portion is configured with respect to the second portion such that, in a connected state of the first and second element with a catheter being positioned, if the first portion is holding the catheter, the second portion is pressed against the catheter for generating a further sealing effect.

14.- A medical device (100) according to any of the previous claims, wherein the base element comprises the slit and wherein the top element comprises the protrusion.

15.- A medical device (100) according to any of the previous claims, wherein the second material is ethylene propylene diene monomer rubber.

16.- A medical device (100) according to any of the previous claims in as far as dependent on claim 3, wherein the foil is transparent thus allowing visible inspection.

17.- A medical device (100) according to any of claims 1 or 2, wherein the base element and the top element are adapted in shape so as to create, when the base element and the top element are snapped into each other, a smooth upper surface of the medical device.

18.- A medical device (100) according to claim 17, wherein the medical device (100) comprises a transparent foil (150) for sticking over the catheter area and the smoothed upper surface.

19.- Use of a medical device according to any of claims 1 to 18 for liquid proof shielding of a catheter application area on a body of a living creature.

20.- Use of a medical device according to any of claims 1 to 18 for fixing a catheter on a body of a living creature.

Claims

1.- A medical device (100) suitable for assisting in liquid proof shielding of a catheter application area on the body of a living creature, the device comprising

- a base element (110) having a deformable first side (111) such that the base element is tightly placeable on a body area near the catheter application area, and a second side (113) opposite the first side (111)

- a top element (120) having a deformable first side (121) connectable with the second side (113) of the base element (110),

one of the base element (110) or the top element (120) being an element comprising a slit (112) for holding a catheter tube or infusion line and the other element comprising a protrusion (122) for closing the slit and for forming a feedthrough for the catheter when the elements are connected,

wherein a first portion of the element forming the slit (112) and the protrusion (122) is made of a first material and shaped for tightly fitting the catheter when it is in position and wherein the element forming the slit (112) and/or the protrusion (122) comprises a second portion formed in a second material, the second material being more soft and deformable than the first material, the second portion being adjacent the first portion and being arranged so as to form a further liquid sealing element for the catheter.

2.- A medical device according to claim 1, wherein the first portion of the element is embedded in the second portion of the element.

3.- A medical device according to any of the previous claims, the device furthermore comprising a foil (150) for covering the catheter application area, the foil comprising a catheter exit site placeable between the base element (110) and the top element (120).

4.- A medical device according to any of the previous claims, wherein the second portion made of the second material is deformable around the catheter tube or infusion line.

5.- A medical device (100) according to any of the previous claims, wherein one of the base element or the top element (110, 120)comprises also a second protrusion (123), the first protrusion (122) and the second protrusion (123) being made of the first material and being removable connectable on the other element.

6.- A medical device (100) according to any of the previous claims, wherein the top element (120) comprises a holding portion (124) for holding the top element (120) during manipulation.

7.- A medical device (100) according to claim 6, wherein the top element (120) comprises a first holding portion (124) and a second holding portion (125) for holding the top element (120)and wherein the first holding portion and the second holding portion are configured for, when pushing the holding portions simultaneously with respect to each other, opening the removable connection.

8.- A medical device (100) according to any of the previous claims, wherein the device furthermore comprises an adhesive material at one or more of the first side (111) of the base element (110), the second side (113) of the base element (110),the first side of the top element (120) such that the adhesive material assists in providing a liquid proof sealing.

9.- A medical device (100) according to any of the previous claims, wherein the adhesive material is a double-sided adhesive layer.

10.- A medical device (100) according to any of claims 8 to 9, wherein the adhesive material is at least located at a peripheral position of a foil (150) for covering the catheter application area.

11.- A medical device (100) according to any of the previous claims, the device comprising a closing element for closing the slit in absence of a catheter, the closing element being a full replacement piece having the same cross-section as the catheter or infusion line.

12.- A medical device (100) according to any of the previous claims, wherein the base element and the top element are made of watertight materials.

13.- A medical device (100) according to any of the previous claims, wherein the first portion is configured with respect to the second portion such that, in a connected state of the first and second element with a catheter being positioned, if the first portion is holding the catheter, the second portion is pressed against the catheter for generating a further sealing effect.

14.- A medical device (100) according to any of the previous claims, wherein the base element comprises the slit and wherein the top element comprises the protrusion.

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16.- A medical device (100) according to any of the previous claims in as far as dependent on claim 3, wherein the foil is transparent thus allowing visible inspection.

17.- A medical device (100) according to any of claims 1 or 2, wherein the base element and the top element are adapted in shape so as to create, when the base element and the top element are snapped into each other, a smooth upper surface of the medical device.

18.- A medical device (100) according to claim 17, wherein the medical device (100) comprises a transparent foil (150) for sticking over the catheter area and the smoothed upper surface.