

Bacterial test – swab test of suction blister wound

Place of Test

All tests were performed at Biofilm Test Facility, University of Copenhagen, Faculty of Health and Medical Sciences, Department of Immunology and Microbiology.

Consignor: Soft-Ox Solutions A/S

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Materials and Methods

Swab test kits (BD™ ESwab Regular Collection Kit) are available at site (Bispebjerg Hospital). Each suction blister wound is tested for bacterial presence at day 4, before and after irrigation with SWIS (investigational device) or Irriflex (comparator). The swab-stick is carefully applied to the wound and thereafter transferred immediately into the Eswab transportation system. Swab tests are marked with subject ID, date, prior/after irrigation and contact details to site. The tests are transported to Costerton Biofilm Center the same day.

Upon arrival to Costerton Biofilm Center, each swab is vortexed and sonicated (5 min degas + 5 minutes sonication; Branson ultrasonic cleaner 2510) before ten-fold dilution series are performed in 0.9 % NaCl (saline solution). Colony-forming units (CFU) is determined by plating 100 µL per dilution onto 5% blood agar plates and 'Blue plates', a modified Conradi-Drigalski medium. Colony counts are performed by inspection of plates after 24 hours of incubation at 37°C. Colonies are counted to estimate CFU/swab.

Results

Subject ID number	Date	pre-irrigation or post- irrigation (pre/post)	Growth (yes/no)	CFU/mL
101 Left	27.11.20	Pre	Yes	36000
101 Left	27.11.20	Post	No	0
101 Right	27.11.20	Pre	Yes	42000
101 Right	27.11.20	Post	Yes	3000
102 Left	27.11.20	Pre	Yes	1100
102 Left	27.11.20	Post	Yes	20
102 Right	27.11.20	Pre	Yes	60
102 Right	27.11.20	Post	No	0
103 Left	04.12.20	Pre	Yes	52000
103 Left	04.12.20	Post	Yes	96000
103 Right	04.12.20	Pre	Yes	29000
103 Right	04.12.20	Post	Yes	49000
104 Left	04.12.20	Pre	Yes	2700
104 Left	04.12.20	Post	Yes	390
104 Right	04.12.20	Pre	Yes	11500
104 Right	04.12.20	Post	Yes	180
105 Left	07.01.21	Pre	Yes	10
105 Left	07.01.21	Post	No	0
105 Right	07.01.21	Pre	Yes	3400
105 Right	07.01.21	Post	Yes	440
107 Left	18.01.21	Pre	Yes	70
107 Left	18.01.21	Post	Yes	20
107 Right	18.01.21	Pre	Yes	16600
107 Right	18.01.21	Post	Yes	1090
108 Left	25.01.21	Pre	No	0
108 Left	25.01.21	Post	No	0
108 Right	25.01.21	Pre	No	0
108 Right	25.01.21	Post	No	0
109 Left	25.01.21	Pre	Yes	400
109 Left	25.01.21	Post	No	0
109 Right	25.01.21	Pre	No	0
109 Right	25.01.21	Post	No	0
110 Left	15.02.21	Pre	Yes	105000
110 Left	15.02.21	Post	Yes	85000

110 Right	15.02.21	Pre	Yes	226000
110 Right	15.02.21	Post	Yes	23300
111 Left	26.02.21	Pre	No	0
111 Left	26.02.21	Post	No	0
111 Right	26.02.21	Pre	No	0
111 Right	26.02.21	Post	No	0
112 Left	26.02.21	Pre	No	0
112 Left	26.02.21	Post	No	0
112 Right	26.02.21	Pre	Yes	430000
112 Right	05.03.21	Post	Yes	38000
113 Left	05.03.21	Pre	No	101000
113 Left	05.03.21	Post	No	36000
113 Right	05.03.21	Pre	No	0
113 Right	05.03.21	Post	No	0
114 Left	05.03.21	Pre	No	3300
114 Left	05.03.21	Post	No	3000
114 Right	05.03.21	Pre	Yes	110000
114 Right	05.03.21	Post	Yes	30000
115 Left	12.03.21	Pre	No	0
115 Left	12.03.21	Post	No	0
115 Right	12.03.21	Pre	Yes	3100
115 Right	12.03.21	Post	Yes	1100
116 Left	12.03.21	Pre	Yes	48000
116 Left	12.03.21	Post	Yes	12000
116 Right	12.03.21	Pre	Yes	1600
116 Right	12.03.21	Post	Yes	20
117 Left	19.03.21	Pre	Yes	410
117 Left	19.03.21	Post	No	0
117 Right	19.03.21	Pre	Yes	15500
117 Right	19.03.21	Post	Yes	9800
118 Left	19.03.21	Pre	Yes	20
118 Left	19.03.21	Post	Yes	10
118 Right	19.03.21	Pre	Yes	10
118 Right	19.03.21	Post	No	0
119 Left	26.03.21	Pre	Yes	200
119 Left	26.03.21	Post	Yes	20
119 Right	26.03.21	Pre	No	0
119 Right	26.03.21	Post	No	0
120 Left	26.03.21	Pre	No	0

120 Left	26.03.21	Post	No	0
120 Right	26.03.21	Pre	Yes	11100
120 Right	26.03.21	Post	Yes	1260

* Patient 106 was not swabbed