

**Supplementary tables**

Table S1. Absolute levels of 16S bacterial rDNA results for negative control samples, control subjects and case subjects.

<b>Negative Controls</b>									
<b>Genus</b>	<b>N1</b>	<b>N2</b>	<b>N3</b>	<b>N4</b>	<b>N5</b>	<b>N6</b>	<b>N7</b>		
<i>Staphylococcus spp.</i>	1	310	51	3	2616	225	3		
<i>Neisseria spp.</i>	1	0	0	0	0	0	1		
<i>Propionibacterium acnes</i>	6	62	2	151	1454	328	927		
<i>Streptococcus spp.</i>	1	0	0	1	1	0	0		
<i>Corynebacterium spp.</i>	1	35	130	0	403	0	2		
<i>Pseudomonas spp.</i>	463	258	699	127	480	382	1,736		
<b>Case</b>									
	<b>M101</b>	<b>M102</b>	<b>M103</b>	<b>M105</b>	<b>M106</b>	<b>M107</b>	<b>M108</b>	<b>M111</b>	<b>M115</b>
<i>Staphylococcus spp.</i>	116,614	3,002	118,892	5,304	3,828	4,076	5,899	4,811	87,953
<i>Neisseria spp.</i>	562,126	41	3,260	10,821	4,186	117	201,193	2,474	0
<i>Propionibacterium acnes</i>	7,168	6,342	7,798	9,273	7,036	14,859	27,912	26,598	24,436
<i>Streptococcus spp.</i>	1,529	9	18,718	22,973	263	1,120	1,170	22,567	770
<i>Corynebacterium spp.</i>	28,986	2,847	29,856	2,543	3,430	16,634	3,466	2,088	45,665
<i>Pseudomonas spp.</i>	3,422	753	824	1,351	1,158	1,553	586	1,214	54
<b>Control</b>									
	<b>M104</b>	<b>M109</b>	<b>M110</b>	<b>M112</b>	<b>M113</b>	<b>M114</b>	<b>M116</b>	<b>M117</b>	<b>M118</b>
<i>Staphylococcus spp.</i>	119,158	183,549	58,999	31,798	196,637	1,092	2,876	2,373	143,458
<i>Neisseria spp.</i>	428	1,178	19	19	30	14	14	265	557
<i>Propionibacterium acnes</i>	225,325	55,847	22,985	94,999	69,044	3,506	951	22,617	10,295
<i>Streptococcus spp.</i>	6,607	289,314	75	2,415	3,716	13	17	883	474
<i>Corynebacterium spp.</i>	12,648	78,549	4,988	65,971	34,701	345	2,311	23,209	2,967
<i>Pseudomonas spp.</i>	1,644	3,523	742	2,236	2,864	747	1,129	19,771	1,326

Table S2. Proportions of bacteria loads in all subjects using 16S bacterial rDNA analysis.

<b>Case</b>									
	<b>M101</b>	<b>M102</b>	<b>M103</b>	<b>M105</b>	<b>M106</b>	<b>M107</b>	<b>M108</b>	<b>M111</b>	<b>M115</b>
<b><i>Staphylococcus spp.</i></b>	0.161999	0.23103	0.662912	0.101483	0.192352	0.106259	0.024556	0.080516	0.553588
<b><i>Neisseria spp.</i></b>	0.780899	0.003155	0.018177	0.207041	0.210341	0.00305	0.837516	0.041404	0.0
<b><i>Propionibacterium acnes</i></b>	0.009958	0.488071	0.04348	0.177423	0.35355	0.387367	0.116191	0.44514	0.153804
<b><i>Streptococcus spp.</i></b>	0.002124	0.000693	0.104367	0.439548	0.013215	0.029198	0.00487	0.377678	0.004846
<b><i>Corynebacterium spp.</i></b>	0.040267	0.219101	0.16647	0.048656	0.172353	0.43364	0.014428	0.034944	0.287422
<b><i>Pseudomonas spp.</i></b>	0.004754	0.05795	0.004594	0.025849	0.058188	0.040486	0.002439	0.020317	0.00034
<b>Control</b>									
	<b>M104</b>	<b>M109</b>	<b>M110</b>	<b>M112</b>	<b>M113</b>	<b>M114</b>	<b>M116</b>	<b>M117</b>	<b>M118</b>
<b><i>Staphylococcus spp.</i></b>	0.325737	0.299936	0.671909	0.161053	0.640528	0.191009	0.394081	0.034333	0.901815
<b><i>Neisseria spp.</i></b>	0.00117	0.001925	0.000216	9.62E-05	9.77E-05	0.002449	0.001918	0.003834	0.003501
<b><i>Propionibacterium acnes</i></b>	0.615962	0.091259	0.261764	0.481159	0.224905	0.613259	0.13031	0.327223	0.064717
<b><i>Streptococcus spp.</i></b>	0.018061	0.472766	0.000854	0.012232	0.012105	0.002274	0.002329	0.012775	0.00298
<b><i>Corynebacterium spp.</i></b>	0.034575	0.128356	0.056806	0.334135	0.113036	0.060346	0.316662	0.335788	0.018651
<b><i>Pseudomonas spp.</i></b>	0.004494	0.005757	0.00845	0.011325	0.009329	0.130663	0.1547	0.286047	0.008336