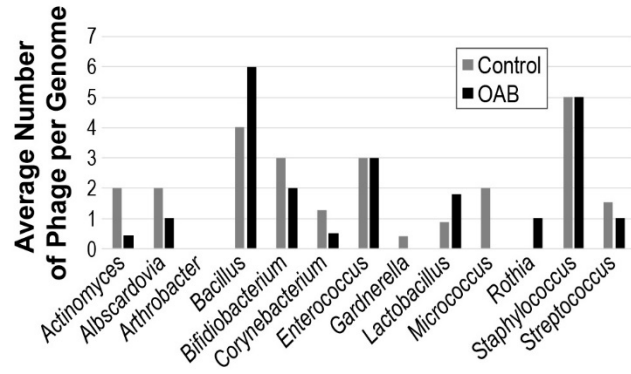


<b>Cluster 1 Strains</b>	<b>Cluster 4 Strains</b>
<i>Actinobaculum urinale</i> str. UMB0759	<i>Lactobacillus crispatus</i> str. UMB0044
<i>Actinomyces europaeus</i> str. UMB0652	<i>L. crispatus</i> str. UMB0054
<i>Actinomyces hominis</i> str. UMB0859	<i>L. crispatus</i> str. UMB0085
<i>Actinomyces neuui</i> str. UMB0125	<i>L. crispatus</i> str. UMB0803
<i>A. neuui</i> str. UMB0138	<i>L. crispatus</i> str. UMB0824
<i>A. neuui</i> str. UMB0402	<i>L. crispatus</i> str. UMB1398
<i>Actinomyces turicensis</i> str. UMB0250	<b>Cluster 5 Strains</b>
<i>Corynebacterium coyleae</i> str. UMB0989	<i>Lactobacillus gasseri</i> str. UMB0045
<i>Corynebacterium</i> sp. str. UMB0763	<i>L. gasseri</i> str. UMB0670
<i>Varibaculum cambriense</i> str. UMB0796	<i>L. pontis</i> str. UMB0683
<i>V. cambriense</i> str. UMB0796	<i>L. vaginalis</i> str. UMB0388
<i>Dermabacter hominis</i> str. UMB0490	<b>Cluster 6 Strains</b>
<b>Cluster 2 Strains</b>	<i>Escherichia coli</i> str. UMB0727
<i>Gardnerella vaginalis</i> str. UMB0032A	<i>E. coli</i> str. UMB0789
<i>G. vaginalis</i> str. UMB0032B	<i>E. coli</i> str. UMB0900
<i>G. vaginalis</i> str. UMB0061	<i>E. coli</i> str. UMB0901
<i>G. vaginalis</i> str. UMB0170	<b>Cluster 7 Strains</b>
<i>G. vaginalis</i> str. UMB0264	<i>Bifidobacterium breve</i> str. UMB0089
<i>G. vaginalis</i> str. UMB0411	<i>B. breve</i> str. UMB0915
<i>G. vaginalis</i> str. UMB0682	<i>B. longum</i> str. UMB0788
<i>G. vaginalis</i> str. UMB0775	
<i>G. vaginalis</i> str. UMB0830	
<i>G. vaginalis</i> str. UMB0833	
<i>G. vaginalis</i> str. UMB1428	
<i>G. vaginalis</i> str. UMB1642	
<b>Cluster 3 Strains</b>	
<i>Aerococcus urinae</i> str. UMB0072	
<i>A. urinae</i> str. UMB0080	
<i>A. urinae</i> str. UMB0088	
<i>A. urinae</i> str. UMB0126	
<i>A. urinae</i> str. UMB0232	
<i>Streptococcus agalactiae</i> str. UMB0049	
<i>S. agalactiae</i> str. UMB0776	
<i>S. anginosus</i> str. UMB0050	
<i>S. anginosus</i> str. UMB0839	
<i>Streptococcus</i> sp. str. UMB0767	
<i>S. dentisani</i> str. UMB0079	
<i>S. dentisani</i> str. UMB0832	
<i>S. mitis</i> str. UMB0079	
<i>S. mitis</i> str. UMB1341	

**Table S1.** Clusters of bladder isolates containing phage sequences with sequence similarity.



**Fig. S1. Average number of lower confidence phage sequences per genome isolated from Control and OAB patients.** Genera with representatives from both patient populations are shown.