

Online Resource 18

Lactobacillus spp. analysis in patients treated with probiotic or placebo still positive or negative after 4 months of treatment.

Bacteria	Mean T0	Mean T4	p	Bacteria	Mean T0	Mean T4	p	Bacteria	Mean T0	Mean T4	p	Bacteria	Mean T0	Mean T4	p
Lactobacillus	66.71%	67.03%	0.8438	Lactobacillus	45.42%	70.19%	0.0935	Lactobacillus	65.52%	50.50%	1	Lactobacillus	57.56%	66.37%	1
Lactobacillus amyolyticus	0.00%	0.01%	0.3173	Lactobacillus amyolyticus	0	0		Lactobacillus amyolyticus	0.89%	0.00%	0.4047	Lactobacillus amyolyticus	0.00%	0.00%	
Lactobacillus animalis	0.33%	0.34%	0.2854	Lactobacillus animalis	5.19%	0.72%	0.2671	Lactobacillus animalis	0.02%	11.71%	1.0000	Lactobacillus animalis	0.03%	0.00%	0.5050
Lactobacillus avarius	0.02%	0.01%	0.9475	Lactobacillus avarius	0.00%	0.02%	0.0756	Lactobacillus avarius	0.20%	0.00%	0.4047	Lactobacillus avarius	0.00%	0.00%	
Lactobacillus backii	6.19%	0.02%	0.4028	Lactobacillus backii	3.31%	0.01%	0.1134	Lactobacillus backii	0.00%	0.86%	0.1823	Lactobacillus backii	0.20%	0.00%	0.7963
Lactobacillus crispatus	25.55%	41.63%	0.2243	Lactobacillus crispatus	34.25%	55.47%	0.0385	Lactobacillus crispatus	76.78%	48.59%	0.2980	Lactobacillus crispatus	65.91%	66.58%	1.0000
Lactobacillus curvatus	0	0		Lactobacillus curvatus	0	0		Lactobacillus curvatus	0.01%	0.10%	1	Lactobacillus curvatus	0.00%	0.00%	
Lactobacillus delbrueckii	0.30%	0	0.3173	Lactobacillus delbrueckii	0.52%	0.24%	0.2132	Lactobacillus delbrueckii	0.00%	0.00%		Lactobacillus delbrueckii	0.50%	0.00%	0.5050
Lactobacillus fermentum	0.16%	0	0.2226	Lactobacillus fermentum	0.61%	1.47%	0.7594	Lactobacillus fermentum	0.03%	0.00%	0.4620	Lactobacillus fermentum	0.00%	0.00%	
Lactobacillus gasseri	2.02%	8.26%	0.3586	Lactobacillus gasseri	18.17%	20.26%	0.6670	Lactobacillus gasseri	2.57%	6.99%	0.7325	Lactobacillus gasseri	0.30%	0.00%	0.5050
Lactobacillus heilongjiangensis	0.01%	0	0.9475	Lactobacillus heilongjiangensis	0	0		Lactobacillus heilongjiangensis	0.00%	0.00%		Lactobacillus heilongjiangensis	0.00%	0.00%	
Lactobacillus iners	61.96%	48.88%	0.2244	Lactobacillus iners	15.91%	14.48%	0.9135	Lactobacillus iners	9.14%	24.97%	0.4225	Lactobacillus iners	28.82%	31.06%	0.6625
Lactobacillus ingluviei	0	0		Lactobacillus ingluviei	0.02%	0.01%	0.6147	Lactobacillus ingluviei	0.00%	0.00%		Lactobacillus ingluviei	0.00%	0.00%	
Lactobacillus jensenii	2.20%	0.45%	0.6292	Lactobacillus jensenii	7.63%	3.32%	0.5567	Lactobacillus jensenii	0.44%	3.18%	0.7325	Lactobacillus jensenii	0.00%	0.01%	0.5050
Lactobacillus johnsonii	0.15%	0	0.3173	Lactobacillus johnsonii	0.66%	1.67%	0.2442	Lactobacillus johnsonii	0.14%	0.00%	0.4047	Lactobacillus johnsonii	0.00%	0.00%	
Lactobacillus kunkeei	0	0		Lactobacillus kunkeei	0	0		Lactobacillus kunkeei	0.00%	0.00%		Lactobacillus kunkeei	0.30%	0.02%	1.0000
Lactobacillus mucosae	0.08%	0	0.9475	Lactobacillus mucosae	0.17%	0.49%	0.4461	Lactobacillus mucosae	0.00%	0.00%		Lactobacillus mucosae	0.02%	0.00%	0.5050
Lactobacillus oris	0.24%	0	0.3633	Lactobacillus oris	0	0.17%	0.5737	Lactobacillus oris	0.26%	0.00%	0.3173	Lactobacillus oris	0.00%	0.00%	
Lactobacillus paracasei	0.16%	0.06%	0.9735	Lactobacillus paracasei	6.96%	0.14%	0.5138	Lactobacillus paracasei	0.44%	0.22%	0.3324	Lactobacillus paracasei	0.02%	0.06%	0.3537
Lactobacillus plantarum	0	0.01%	0.3633	Lactobacillus plantarum	0.20%	0.03%	0.6680	Lactobacillus plantarum	4.70%	0.00%	0.3173	Lactobacillus plantarum	3.31%	2.09%	0.4867
Lactobacillus reuteri	0	0.26%	0.1035	Lactobacillus reuteri	4.36%	0.34%	0.7657	Lactobacillus reuteri	1.77%	0.03%	0.5993	Lactobacillus reuteri	0.01%	0.00%	0.3173
Lactobacillus rhamnosus	0	0		Lactobacillus rhamnosus	0.03%	0.02%	0.4502	Lactobacillus rhamnosus	0.00%	0.03%	0.4047	Lactobacillus rhamnosus	0.00%	0.00%	
Lactobacillus sakei	0	0		Lactobacillus sakei	0.70%	0	0.1511	Lactobacillus sakei	0.00%	0.00%		Lactobacillus sakei	0.00%	0.00%	
Lactobacillus salivarius	0.61%	0.05%	0.0938	Lactobacillus salivarius	1.24%	1.10%	0.6926	Lactobacillus salivarius	2.44%	3.30%	1	Lactobacillus salivarius	0.58%	0.17%	0.6428

Lactobacillus spp. analysis in patients of the probiotic group still positive for HPV after 4 months of treatment

Lactobacillus spp. analysis in patients of the probiotic group negative for HPV after 4 months of treatment

Lactobacillus spp. analysis in patients of the placebo group still positive for HPV after 4 months of treatment

Lactobacillus spp. analysis in patients of the placebo group negative for HPV after 4 months of treatment

The analysis demonstrated that the only significant shift concerned with the increase of *L. crispatus* in women treated with the probiotic and clearing the HPV. The analysis was performed with the Wilcoxon Rank Sums test. The red rectangle indicates the statistically significant value.