

Additional file 1 Effect of different factors on prevalence of subclinical mastitis (SCM) in Finland in years 2001 and 2010

	Comparison	99.9 % CL			2001 99.9 % CL			2010 99.9 % CL		
		Odds ratio	Lower	Upper	Odds ratio	Lower	Upper	Odds ratio	Lower	Upper
Year	2001 vs. 2010	1.126	1.099	1.153						
Parity	1 vs. 2	0.746	0.732	0.760	0.763	0.740	0.786	0.729	0.713	0.745
	1 vs. 3	0.526	0.516	0.537	0.566	0.548	0.584	0.490	0.478	0.501
	1 vs. ≥4	0.392	0.385	0.400	0.442	0.428	0.455	0.348	0.341	0.356
	2 vs. 3	0.706	0.692	0.719	0.742	0.719	0.765	0.671	0.657	0.686
	2 vs ≥4	0.526	0.517	0.535	0.579	0.562	0.596	0.478	0.468	0.488
	3 vs. ≥4	0.745	0.731	0.760	0.781	0.757	0.805	0.712	0.696	0.728
	Breed	Ayrshire vs. Holstein	0.771	0.754	0.789					
Ayrshire vs. Other breeds		0.892	0.810	0.982						
Holstein vs. Other breeds		1.157	1.050	1.275						
Herd size	Average herd size	1.002	1.001	1.002						
	Jan - March vs. Apr - June	0.900	0.879	0.922						
Season	Jan - March vs. July - Sept	0.694	0.678	0.711						
	Jan - March vs. Oct - Dec	0.815	0.796	0.835						
	Apr - June vs. July - Sept	0.771	0.754	0.790						
	Apr - June vs. Oct - Dec	0.906	0.885	0.928						
	July - Sept vs. Oct - Dec	1.175	1.147	1.202						
Region	Southern vs Western	1.025	0.994	1.057						
	Southern vs Eastern	0.899	0.865	0.933						
	Southern vs Northern	0.865	0.839	0.891						
	Western vs Eastern	0.877	0.847	0.908						
	Western vs Northern	0.844	0.822	0.866						
	Eastern vs Northern	0.962	0.930	0.995						

Mixed effects logistic regression model of SCM and related factors (observations used 1,033,602). SCM was defined as cow composite milk SCC (somatic cell count) $\geq 200,000$ cells/ml in one test milking of the year. Interactions between years and variables are presented separately in columns. OR (odds ratio), 99.9% CL (confidence limit).