

# Appendix 1: Interaction Models and ITT Model Outputs

**Table 7: Model outputs, interaction models**

Predictors	Perceptions of food safety			Confidence in identifying ingredients*			Comfort asking staff about ingredients			Satisfaction with overall experience			Trust in FBO**			Likelihood to recommend FBO		
	Estimates (β)	CI	p	Estimates (β)	CI	p	Estimates (β)	CI	p	Estimates (β)	CI	p	Estimates (β)	CI	p	Estimates (β)	CI	p
Intercept	2.04	1.76 – 2.32	<0.001	3.97	3.78 – 4.17	<0.001	4.21	4.02 – 4.40	<0.001	4.28	4.07 – 4.48	<0.001	4.14	4.00 – 4.29	<0.001	4.33	4.11 – 4.56	<0.001
Treatment (Treatment)	-0.10	-0.42 – 0.22	0.545	0.25	0.04 – 0.46	0.02	0.35	0.14 – 0.56	0.001	0.37	0.14 – 0.61	0.002	0.35	0.19 – 0.50	<0.001	0.32	0.05 – 0.59	0.021
Hypersensitivity (Yes)	-0.03	-0.43 – 0.38	0.893	-0.12	-0.41 – 0.17	0.404	-0.23	-0.50 – 0.04	0.096	0.03	-0.26 – 0.31	0.864	-0.04	-0.26 – 0.17	0.689	0.11	-0.18 – 0.41	0.448
Age (26-35)	0.13	-0.16 – 0.42	0.382	0.02	-0.19 – 0.23	0.877	-0.05	-0.24 – 0.15	0.619	-0.26	-0.46 – -0.05	0.017	0.03	-0.12 – 0.19	0.683	-0.16	-0.38 – 0.05	0.129
Age (36-49)	0.10	-0.24 – 0.44	0.582	0.05	-0.20 – 0.29	0.698	-0.10	-0.32 – 0.13	0.405	-0.11	-0.36 – 0.13	0.356	-0.17	-0.35 – 0.01	0.066	-0.18	-0.43 – 0.07	0.152
Age (50+)	-0.06	-0.55 – 0.42	0.793	-0.13	-0.48 – 0.22	0.464	0.26	-0.07 – 0.58	0.119	-0.23	-0.58 – 0.12	0.191	-0.4	-0.65 – -0.14	0.002	-0.22	-0.57 – 0.13	0.223
Gender (Female)	0.12	-0.13 – 0.38	0.337	0.02	-0.16 – 0.20	0.821	0.09	-0.08 – 0.25	0.320	0.20	0.02 – 0.38	0.029	0.06	-0.07 – 0.19	0.38	0.01	-0.17 – 0.19	0.920
Treatment*Hypersensitivity	0.47	-0.23 – 1.17	0.190	0.06	-0.45 – 0.56	0.826	0.07	-0.40 – 0.54	0.778	-0.27	-0.78 – 0.23	0.285	-0.12	-0.49 – 0.25	0.526	-0.23	-0.74 – 0.28	0.377
<b>Random effects</b>																		
σ <sup>2</sup>		1.92			-			0.86			0.98			-			1.00	
Too		0.01 Location			-			0.00 Location			0.01 Location			-			0.03 Location	
ICC		0.01			-			0.01			0.01			-			0.03	
N		18 Location			-			18 Location			18 Location			-			18 Location	
Observations		508			508			508			508			508			508	
Marginal R <sup>2</sup> / Conditional R <sup>2</sup>		0.008 / 0.014			0.017 / 0.004			0.043 / 0.049			0.043 / 0.051			0.072 / 0.059			0.025 / 0.049	

\* This model was conducted using a model without a random intercept, which had significantly better fit ( $\chi^2(1) = 20.364$ ,  $p < 0.001$ )

\*\* This model was conducted using a model without a random intercept, which had significantly better fit ( $\chi^2(1) = 25.345$ ,  $p < 0.001$ )

**Table 8: Model outputs, intent-to-treat models (primary outcomes)**

Predictors	Perceptions of food safety			Confidence in identifying ingredients			Comfort asking staff about ingredients			Perceptions of food safety			Confidence in identifying ingredients			Comfort asking staff about ingredients		
	Estimates (β)	CI	p	Estimates (β)	CI	p	Estimates (β)	CI	p	Estimates (β)	CI	p	Estimates (β)	CI	p	Estimates (β)	CI	p
Intercept	2.21	1.97 – 2.45	<0.001	4.09	3.94 – 4.24	<0.001	4.32	4.16 – 4.48	<0.001	2.22	1.98 – 2.47	<0.001	4.09	3.94 – 4.24	<0.001	4.32	4.16 – 4.48	<0.001
Treatment (Treatment)	-0.00	-0.26 – 0.26	0.985	-0.03	-0.17 – 0.10	0.653	0.05	-0.11 – 0.21	0.555	-0.05	0.32 – 0.21	0.691	-0.03	-0.18 – 0.12	0.706	0.03	-0.14 – 0.21	0.694
Hypersensitivity (Yes)	0.13	-0.13 – 0.38	0.329	-0.10	-0.28 – 0.07	0.253	-0.18	-0.35 – -0.01	0.043	-0.02	0.36 – 0.32	0.924	-0.10	-0.34 – 0.14	0.428	-0.22	-0.45 – 0.02	0.067
Age (26-35)	0.17	-0.05 – 0.39	0.121	0.01	-0.15 – 0.16	0.935	-0.06	-0.21 – 0.09	0.429	0.19	0.03 – 0.41	0.093	0.01	-0.15 – 0.16	0.942	-0.06	-0.21 – 0.09	0.464
Age (36-49)	0.09	-0.17 – 0.35	0.495	0.08	-0.11 – 0.27	0.408	-0.08	-0.26 – 0.10	0.382	0.10	0.17 – 0.36	0.472	0.08	-0.11 – 0.27	0.409	-0.08	-0.26 – 0.10	0.390
Age (50+)	0.05	-0.33 – 0.43	0.810	-0.06	-0.33 – 0.21	0.645	0.01	-0.25 – 0.27	0.958	0.04	0.34 – 0.42	0.830	-0.06	-0.33 – 0.21	0.646	0.01	-0.25 – 0.27	0.966
Gender (Female)	-0.10	-0.30 – 0.09	0.290	-0.01	-0.14 – 0.13	0.905	0.08	-0.05 – 0.21	0.216	-0.10	0.29 – 0.09	0.293	-0.01	-0.15 – 0.13	0.905	0.08	-0.05 – 0.21	0.215
Treatment*Hypersensitivity										0.32	0.19 – 0.83	0.220	-0.02	-0.38 – 0.35	0.933	0.09	-0.26 – 0.44	0.628
<b>Random Effects</b>																		
σ <sup>2</sup>		1.93			0.99			0.91			1.93			0.99			0.91	
Too		0.03 Location			0.00 Location			0.01 Location			0.03 Location			0.00 Location			0.01 Location	
ICC		0.02			0.00			0.01			0.02			0.00			0.01	
N		18 Location			18 Location			18 Location			18 Location			18 Location			18 Location	
Observations		882			882			882			882			882			882	
Marginal R <sup>2</sup> / Conditional R <sup>2</sup>		0.005 / 0.022			0.003 / 0.003			0.008 / 0.019			0.007 / 0.023			0.003 / 0.003			0.008 / 0.019	

**Table 9: Model outputs, intent-to-treat models (secondary outcomes)**

Predictors	Satisfaction with overall experience			Trust in FBO			Likelihood to recommend FBO			Satisfaction with overall experience			Trust in FBO			Likelihood to recommend FBO		
	Estimates (β)	CI	p	Estimates (β)	CI	p	Estimates (β)	CI	p	Estimates (β)	CI	p	Estimates (β)	CI	p	Estimates (β)	CI	p
Intercept	4.43	4.25 – 4.60	<b>&lt;0.001</b>	4.31	4.20 – 4.42	<b>&lt;0.001</b>	4.43	4.25 – 4.62	<b>&lt;0.001</b>	4.42	4.25 – 4.60	<b>&lt;0.001</b>	4.31	4.19 – 4.42	<b>&lt;0.001</b>	4.42	4.24 – 4.60	<b>&lt;0.001</b>
Treatment (Treatment)	-0.05	-	0.569	0.00	-0.10 – 0.11	0.936	-0.05	-0.24 – 0.15	0.646	-0.04	-0.23 – 0.15	0.674	0.02	-0.09 – 0.13	0.770	0.00	-	0.972
Hypersensitivity (Yes)	-0.06	-	0.528	-0.07	-0.21 – 0.06	0.299	-0.01	-0.19 – 0.18	0.926	-0.03	-0.28 – 0.23	0.825	-0.04	-0.22 – 0.14	0.681	0.12	-	0.330
Age (26-35)	-0.13	-	0.128	-0.04	-0.16 – 0.08	0.483	-0.18	-0.34 – 0.02	<b>0.001</b>	-0.13	-0.30 – 0.03	0.120	-0.05	-0.16 – 0.07	0.450	-0.19	-	<b>0.020</b>
Age (36-49)	-0.02	-	0.868	-0.18	-0.32 – 0.04	<b>0.012</b>	-0.17	-0.36 – 0.03	0.088	-0.02	-0.21 – 0.18	0.860	-0.18	-0.32 – 0.04	<b>0.012</b>	-0.17	-	0.080
Age (50+)	-0.20	-	0.159	-0.43	-0.64 – 0.23	<b>&lt;0.001</b>	-0.27	-0.55 – 0.00	0.054	-0.20	-0.49 – 0.08	0.162	-0.43	-0.64 – 0.23	<b>&lt;0.001</b>	-0.27	-	0.058
Gender (Female)	0.03	-	0.648	0.02	-0.08 – 0.13	0.569	0.02	-0.12 – 0.16	0.770	0.03	-0.11 – 0.18	0.650	0.02	-0.08 – 0.13	0.671	0.02	-	0.778
Treatment*Hypersensitivity										-0.07	-0.46 – 0.31	0.713	-0.08	-0.35 – 0.20	0.591	-0.30	-	0.119
<b>Random Effects</b>																		
σ <sup>2</sup>	1.09			0.57			1.05			1.09			0.57			1.05		
Too	0.01 Location			0.00 Location			0.02 Location			0.01 Location			0.00 Location			0.02 Location		
ICC	0.01						0.02			0.01						0.02		
N	18 Location			18 Location			18 Location			18 Location			18 Location			18 Location		
Observations	881			881			882			881			881			882		
Marginal R <sup>2</sup> / Conditional R <sup>2</sup>	0.005 / 0.018			0.025 / NA			0.009 / 0.029			0.006 / 0.018			0.025 / NA			0.012 / 0.031		

**Table 10: Model outputs, interaction models II - Declaration of allergy or intolerance**

Predictors	Odds Ratios	CI	p
Intercept	0.01	0.00 – 0.04	<b>&lt;0.001</b>
Treatment (Treatment)	9.02	3.52 – 26.39	<b>&lt;0.001</b>
Hypersensitivity (Yes)	9.83	3.20 – 31.98	<b>&lt;0.001</b>
Age (26-35)	0.67	0.27 – 1.60	0.378
Age (36-49)	1.09	0.39 – 2.81	0.862
Age (50+)	3.28	0.95 – 10.45	<b>0.049</b>
Gender (Female)	1.42	0.70 – 3.01	0.341
Treatment*Hypersensitivity	0.89	0.20 – 3.92	0.880

  

Predictors	Odds Ration	CI	p
Intercept	0.01	0.00 to 0.04	<b>&lt;0.001</b>
Treatment (Treatment)	9.02	3.52 - 26.39	<b>&lt;0.001</b>
Hypersensitivity (Yes)	9.83	3.20 - 31.98	<b>&lt;0.001</b>
Age (26 to 35)	0.67	0.27 - 1.60	0.378
Age (36 to 49)	1.09	0.39 - 2.81	0.862
Age (50+)	3.28	0.95 - 10.45	<b>0.049</b>
Gender (Female)	1.42	0.70 - 3.01	0.341
Treatment Hypersensitivity	0.89	0.20 - 3.92	0.880

Observations: 508

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\* This model was conducted using a model without a random intercept, which had a better fit (AIC = 248.200, vs 250.207)

**Table 11 Model outputs, intent-to-treat models (secondary outcomes II)**

<i>Predictors</i>	Declaration of allergy or intolerance			Declaration of allergy or intolerance		
	<i>Odds Ratios</i>	<i>CI</i>	<i>p</i>	<i>Odds Ratios</i>	<i>CI</i>	<i>p</i>
Intercept	0.07	0.04 – 0.11	<b>&lt;0.001</b>	0.07	0.04 – 0.12	<b>&lt;0.001</b>
Treatment (Treatment)	1.16	0.73 – 1.83	0.538	1.07	0.58 – 1.95	0.813
Hypersensitivity (Yes)	7.23	4.51 – 11.64	<b>&lt;0.001</b>	6.65	3.48 – 12.71	<b>&lt;0.001</b>
Age (26-35)	0.66	0.36 – 1.18	0.172	0.67	0.36 – 1.21	0.193
Age (36-49)	1.44	0.78 – 2.61	0.234	1.45	0.78 – 2.62	0.229
Age (50+)	2.47	1.09 – 5.28	<b>0.023</b>	2.46	1.08 – 5.25	<b>0.024</b>
Gender (Female)	0.86	0.53 – 1.38	0.524	0.86	0.53 – 1.39	0.526
Treatment*Hypersensitivity				1.20	0.47 – 3.10	0.711
Observations		882			882	
R <sup>2</sup> Tjur		0.112			0.112	