

# 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	0.05	-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	0.057
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	<0.001	4.31	4.20 – 4.42	<0.001	4.43	4.25 – 4.62	<0.001	4.42	4.25 – 4.60	<0.001	4.31	4.19 – 4.42	<0.001	4.42	4.24 – 4.60	<0.001
Treatment (Treatment)	-0.05	0.24 – 0.13	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	0.20 – 0.21	0.972
Hypersensitivity (Yes)	-0.06	0.25 – 0.13	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	0.13 – 0.37	0.330
Age (26-35)	-0.13	0.29 – 0.04	0.128	-0.04	-0.16 – 0.08	0.483	-0.18	-0.34 – 0.02	0.001	-0.13	-0.30 – 0.03	0.120	-0.05	-0.16 – 0.07	0.450	-0.19	0.35 – 0.03	0.020
Age (36-49)	-0.02	0.21 – 0.18	0.868	-0.18	-0.32 – 0.04	0.012	-0.17	-0.36 – 0.03	0.088	-0.02	-0.21 – 0.18	0.860	-0.18	-0.32 – 0.04	0.012	-0.17	0.37 – 0.02	0.080
Age (50+)	-0.20	0.49 – 0.08	0.159	-0.43	-0.64 – 0.23	<0.001	-0.27	-0.55 – 0.00	0.054	-0.20	-0.49 – 0.08	0.162	-0.43	-0.64 – 0.23	<0.001	-0.27	0.55 – 0.01	0.058
Gender (Female)	0.03	0.11 – 0.18	0.648	0.02	-0.08 – 0.13	0.669	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	0.12 – 0.16	0.778
Treatment*Hypersensitivity										-0.07	-0.46 – 0.31	0.713	-0.08	-0.35 – 0.20	0.591	-0.30	0.67 – 0.08	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	<0.001
Treatment (Treatment)	9.02	3.52 – 26.39	<0.001
Hypersensitivity (Yes)	9.83	3.20 – 31.98	<0.001
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	0.049
Gender (Female)	1.42	0.70 – 3.01	0.341
Treatment*Hypersensitivity	0.89	0.20 – 3.92	0.880

Predictors	Odds Ratio	CI	p
Intercept	0.01	0.00 to 0.04	<0.001
Treatment (Treatment)	9.02	3.52 - 26.39	<0.001
Hypersensitivity (Yes)	9.83	3.20 - 31.98	<0.001
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	0.049
Gender (Female)	1.42	0.70 - 3.01	0.341
Treatment Hypersensitivity	0.89	0.20 - 3.92	0.880

Observations: 508

R Tiur 0.231

\* 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	