

Appendix E

Impersonal updating was tested empirically using Pearson's χ^2 tests. Specifically, in each session t , for each choice situation k , we tested whether subjects who chose the same alternative j (A, B or C) in the preference task (task 1) had equivalent beliefs (elicited in task 2) regarding the number of subjects choosing option A, B and C in the preference task (task 1). Rejection of this null hypothesis suggest that impersonal updating was not satisfied. For example, in Table E.1., in choice task 1, session1, impersonal updating was satisfied for subjects choosing option A and C, not for those choosing option B.

Table E.1. Pearsons's χ^2 used to test impersonal updating

Null Hypothesis:					
Predictions of choosing A, B, and C are equal across subjects who choose the same option					
Choice task 1^a					
Session	Session size	Subjects choosing option A	Subjects choosing option B	Subjects choosing option C	
1	11	9.843 (6)	12.333** (3)	0.400 (2)	
2	10	9.920 (5)	12.513 (5)	- (0)	
3	11	21.704*** (4)	16.547 (7)	- (0)	
4	10	6.500 (3)	8.862 (4)	4.800 (3)	
5	10	11.164 (5)	11.464** (3)	6.438** (2)	
6	14	37.9142* (11)	12.500** (3)	- (0)	
Choice task 2					
Session	Session size	Subjects choosing option A	Subjects choosing option B	Subjects choosing option C	
1	11	19.542* (7)	1.285 (2)	8.100** (2)	
2	10	5.138 (5)	23.315*** (5)	- (0)	
3	11	14.668** (4)	0.444 (2)	19.996** (5)	
4	10	12.231 (5)	5.073 (3)	0.286 (2)	
5	10	6.636 (3)	- (1)	24.255*** (6)	
6	14	14.071 (7)	5.809 (4)	12.769** (3)	
Choice task 3					
Session	Session size	Subjects choosing option A	Subjects choosing option B	Subjects choosing option C	
1	11	- (1)	22.645 (9)	- (1)	

2	10	0.491 (3)	33.380*** (6)	- (1)
3	11	14.077** (4)	37.90 *** (7)	- (0)
4	10	0.976 (2)	15.038 (6)	2.609 (2)
5	10	- (1)	41.343*** (8)	- (1)
6	14	0.285 (2)	29.553* (11)	- (1)

Choice task 4

Session	Session size	Subjects choosing option A	Subjects choosing option B	Subjects choosing option C
1	11	15.368** (4)	- (1)	9.200 (6)
2	10	23.625*** (6)	- (0)	10.667 (4)
3	11	7.298 (6)	- (0)	11.431 (5)
4	10	16.200*** (3)	- (1)	12.436 (6)
5	10	18.990*** (4)	13.000** (3)	3.4364 (3)
6	14	44.462*** (7)	- (0)	26.371** (7)

Choice task 5

Session	Session size	Subjects choosing option A	Subjects choosing option B	Subjects choosing option C
1	11	13.221 (5)	2.222 (2)	2.666 (4)
2	10	9.587 (4)	30.019*** (6)	- (0)
3	11	28.613** (9)	1.978 (2)	- (0)
4	10	35.019*** (9)	- (0)	- (1)
5	10	1.285 (2)	25.222** (7)	- (1)
6	14	34.996*** (6)	31.795*** (8)	- (0)

Choice task 6

Session	Session size	Subjects choosing option A	Subjects choosing option B	Subjects choosing option C
1	11	11.006*** (4)	5.402 (3)	7.851 (4)
2	10	- (1)	8.934 (5)	14.609** (4)
3	11	- (1)	4.985 (6)	6.876 (4)
4	10	- (0)	15.973 (8)	1.166 (2)
5	10	8.100*** (2)	13.301** (4)	19.744*** (4)
6	14	- (1)	12.302 (8)	13.636* (5)

Choice task 7

Session	Session size	Subjects choosing option A	Subjects choosing option B	Subjects choosing option C
1	11	39.064*** (7)	- (1)	3.830 (3)
2	10	26.104*** (6)	- (1)	4.285 (3)
3	11	5.466 (4)	- (1)	15.220 (6)
4	10	6.748 (6)	- (1)	4.865 (3)
5	10	27.484*** (5)	- (1)	24.561*** (4)

6	14	36.255***(9)	7.285 (3)	1.761(2)
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Choice task 8

Session	Session size	Subjects choosing option A	Subjects choosing option B	Subjects choosing option C
1	11	4.579 (3)	11.393 (6)	3.000 (2)
2	10	- (1)	28.634**(8)	- (1)
3	11	- (1)	25.916 (10)	- (0)
4	10	- (1)	8.794 (7)	6.038**(2)
5	10	- (0)	37.000*** (8)	8.266**(2)
6	14	0.833 (2)	25.887* (9)	4.142 (3)

Choice task 9

Session	Session size	Subjects choosing option A	Subjects choosing option B	Subjects choosing option C
1	11	- (1)	12.328 (7)	1.120 (3)
2	10	- (1)	8.836 (4)	6.791 (5)
3	11	- (1)	11.018 (5)	19.521*** (5)
4	10	4.500 (3)	10.357 (5)	0.976 (2)
5	10	7.363 (3)	5.666 (4)	2.700 (3)
6	14	- (1)	26.520**(8)	5.523 (5)

Choice task 10

Session	Session size	Subjects choosing option A	Subjects choosing option B	Subjects choosing option C
1	11	3.818 (2)	10.693 (7)	0.254 (2)
2	10	16.755 (7)	- (1)	1.333 (2)
3	11	2.147 (3)	10.769*** (2)	17.195 (6)
4	10	5.721 (6)	2.400 (2)	2.427 (2)
5	10	40.000*** (6)	19.593*** (4)	- (1)
6	14	14.896 (6)	15.663** (4)	8.156 (4)

Choice task 11

Session	Session size	Subjects choosing option A	Subjects choosing option B	Subjects choosing option C
1	11	2.396 (2)	11.454*** (2)	5.833 (7)
2	10	- (0)	1.058 (2)	20.431 (0)
3	11	- (1)	0.935 (3)	28.684*** (7)
4	10	- (1)	- (1)	11.733 (8)
5	10	- (1)	16.526*** (3)	46.956*** (6)
6	14	- (1)	36.444*** (4)	28.241** (9)

Choice task 12

Session	Session size	Subjects choosing option A	Subjects choosing option B	Subjects choosing option C
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1	11	5.839 (3)	31.1480***(7)	- (1)
2	10	99.278***(8)	- (1)	- (1)
3	11	14.180**(4)	12.933**(4)	12.561**(3)
4	10	10.934 (5)	2.793 (4)	- (1)
5	10	58.283***(5)	14.727***(3)	9.000**(2)
6	14	34.383***(5)	23.695**(7)	2.166 (2)

^aThe number of respondents choosing option A, B and C are reported in parentheses.