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1 . use "/Users/michaelodonnell/Dropbox/Research/Referrals Luth Self-Replication/Referrals_Fetzer_SelfReplic
  > ation_to_analyze_with_ac_drops_data_cleaned.dta"

2 . do "/var/folders/jg/24l23cq53cq2m6d8dbn69rx80000gn/T//SD87972.000000"

3 . preserve

4 . keep if wavel==0
   (3,374 observations deleted)

5 . xtmixed quality_ condition##incentive|| id:, reml

```

Performing EM optimization:

Performing gradient-based optimization:

Iteration 0: log restricted-likelihood = **-5855.4476**

Iteration 1: log restricted-likelihood = **-5855.4473**

Computing standard errors:

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Mixed-effects REML regression              Number of obs   =      2,984
Group variable: id                        Number of groups  =      1,492

Obs per group:
      min =          2
      avg =         2.0
      max =          2

Wald chi2(3) =      18.86
Log restricted-likelihood = -5855.4473    Prob > chi2      =      0.0003

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quality_	Coef.	Std. Err.	z	P> z	[95% Conf. Interval]	
1.condition_referrer	.0854023	.0973114	0.88	0.380	-.1053245	.2761291
2.incentive	.0107672	.0655312	0.16	0.869	-.1176717	.139206
condition_referrer#incentive						
1 2	.2282182	.0924894	2.47	0.014	.0469423	.409494
_cons	5.172275	.0689478	75.02	0.000	5.037139	5.30741

Random-effects Parameters	Estimate	Std. Err.	[95% Conf. Interval]	
id: Identity				
sd(_cons)	1.391661	.0374934	1.320082	1.467122
sd(Residual)	1.263071	.0231377	1.218526	1.309244

LR test vs. linear model: chibar2(01) = 532.85 Prob >= chibar2 = **0.0000**

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6 . margins condition##incentive
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Predictive margins Number of obs = **2,984**

Expression : **Linear prediction, fixed portion, predict()**

	Delta-method				
Margin	Std. Err.	z	P> z	[95% Conf. Interval]	

condition_referrer							
0	5.177658	.0606647	85.35	0.000	5.058757	5.296559	
1	5.37717	.0604212	88.99	0.000	5.258746	5.495593	
incentive							
1	5.215147	.0486553	107.19	0.000	5.119785	5.31051	
2	5.340483	.0486553	109.76	0.000	5.24512	5.435845	
condition_referrer#incentive							
0 1	5.172275	.0689478	75.02	0.000	5.037139	5.30741	
0 2	5.183042	.0689478	75.17	0.000	5.047907	5.318177	
1 1	5.257677	.068671	76.56	0.000	5.123084	5.39227	
1 2	5.496662	.068671	80.04	0.000	5.362069	5.631255	

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7 . contrast incentive@condition, effects
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Contrasts of marginal linear predictions

Margins : **asbalanced**

	df	chi2	P>chi2
quality_			
incentive@condition_referrer			
0	1	0.03	0.8695
1	1	13.41	0.0003
Joint	2	13.43	0.0012

	Contrast	Std. Err.	z	P> z	[95% Conf. Interval]
quality_					
incentive@condition_referrer					
(2 vs base) 0	.0107672	.0655312	0.16	0.869	-.1176717 .139206
(2 vs base) 1	.2389853	.0652682	3.66	0.000	.111062 .3669087

```
8 . restore
```

```
9 . preserve
```

```
10 . keep if wavel==1
(2,984 observations deleted)
```

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11 . xtmixed quality_ condition##incentive|| id:, reml
```

Performing EM optimization:

Performing gradient-based optimization:

Iteration 0: log restricted-likelihood = **-6687.5054**

Iteration 1: log restricted-likelihood = **-6687.5052**

Computing standard errors:

Mixed-effects REML regression
Group variable: **id**

Number of obs = **3,374**
Number of groups = **1,687**

Obs per group:

min = 2
 avg = 2.0
 max = 2

Log restricted-likelihood = -6687.5052 Wald chi2(3) = 2.98
 Prob > chi2 = 0.3944

quality_	Coef.	Std. Err.	z	P> z	[95% Conf. Interval]	
1.condition_referrer	-.0078806	.0937843	-0.08	0.933	-.1916944	.1759331
2.incentive	-.0463183	.0622843	-0.74	0.457	-.1683933	.0757567
condition_referrer#incentive						
1 2	.1327088	.0880051	1.51	0.132	-.0397781	.3051957
_cons	5.219715	.0663744	78.64	0.000	5.089623	5.349806

Random-effects Parameters	Estimate	Std. Err.	[95% Conf. Interval]	
id: Identity				
sd(_cons)	1.440932	.0359352	1.372194	1.513113
sd(Residual)	1.277968	.0220143	1.235541	1.321851

LR test vs. linear model: chibar2(01) = 633.30 Prob >= chibar2 = 0.0000

12 . margins condition##incentive

Predictive margins Number of obs = 3,374

Expression : Linear prediction, fixed portion, predict()

	Delta-method					
	Margin	Std. Err.	z	P> z	[95% Conf. Interval]	
condition_referrer						
0	5.196556	.0586151	88.66	0.000	5.081672	5.311439
1	5.25503	.058511	89.81	0.000	5.14035	5.369709
incentive						
1	5.215768	.0468921	111.23	0.000	5.123861	5.307674
2	5.235922	.0468921	111.66	0.000	5.144015	5.327828
condition_referrer#incentive						
0 1	5.219715	.0663744	78.64	0.000	5.089623	5.349806
0 2	5.173397	.0663744	77.94	0.000	5.043305	5.303488
1 1	5.211834	.0662565	78.66	0.000	5.081974	5.341695
1 2	5.298225	.0662565	79.97	0.000	5.168365	5.428085

13 . contrast incentive@condition, effects

Contrasts of marginal linear predictions

Margins : asbalanced

	df	chi2	P>chi2

quality_				
incentive@condition_referrer				
0	1	0.55	0.4571	
1	1	1.93	0.1647	
Joint	2	2.48	0.2888	

	Contrast	Std. Err.	z	P> z	[95% Conf. Interval]	
quality_						
incentive@condition_referrer						
(2 vs base) 0	-.0463183	.0622843	-0.74	0.457	-.1683933	.0757567
(2 vs base) 1	.0863905	.0621737	1.39	0.165	-.0354676	.2082487

14 . restore

15 . xtmixed quality_ condition##incentive|| id:, reml

Performing EM optimization:

Performing gradient-based optimization:

Iteration 0: log restricted-likelihood = -12540.316

Iteration 1: log restricted-likelihood = -12540.316

Computing standard errors:

Mixed-effects REML regression

Group variable: **id**

Number of obs = 6,358

Number of groups = 3,179

Obs per group:

min = 2

avg = 2.0

max = 2

Wald chi2(3) = 16.90

Log restricted-likelihood = -12540.316

Prob > chi2 = 0.0007

quality_	Coef.	Std. Err.	z	P> z	[95% Conf. Interval]	
1.condition_referrer	.0358988	.0675524	0.53	0.595	-.0965015	.1682992
2.incentive	-.0195584	.0451577	-0.43	0.665	-.1080657	.068949
condition_referrer#incentive						
1 2	.1776512	.0637724	2.79	0.005	.0526597	.3026428
_cons	5.197476	.0478344	108.66	0.000	5.103723	5.29123

Random-effects Parameters	Estimate	Std. Err.	[95% Conf. Interval]	
id: Identity				
sd(_cons)	1.417957	.025942	1.368013	1.469725
sd(Residual)	1.27125	.0159481	1.240374	1.302895

LR test vs. linear model: chibar2(01) = 1166.69 Prob >= chibar2 = 0.0000

16 . margins condition##incentive

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	Delta-method					
	Margin	Std. Err.	z	P> z	[95% Conf. Interval]	
condition_referrer						
0	5.187697	.0421702	123.02	0.000	5.105045	5.270349
1	5.312422	.0420509	126.33	0.000	5.230003	5.39484
incentive						
1	5.215477	.0337761	154.41	0.000	5.149277	5.281676
2	5.284995	.0337761	156.47	0.000	5.218795	5.351195
condition_referrer#incentive						
0 1	5.197476	.0478344	108.66	0.000	5.103723	5.29123
0 2	5.177918	.0478344	108.25	0.000	5.084164	5.271672
1 1	5.233375	.0476991	109.72	0.000	5.139887	5.326864
1 2	5.391468	.0476991	113.03	0.000	5.297979	5.484957

```
17 . contrast incentive@condition, effects
```

Contrasts of marginal linear predictions

Margins : asbalanced

	df	chi2	P>chi2
quality_			
incentive@condition_referrer			
0	1	0.19	0.6649
1	1	12.33	0.0004
Joint	2	12.51	0.0019

	Contrast	Std. Err.	z	P> z	[95% Conf. Interval]	
quality_						
incentive@condition_referrer						
(2 vs base) 0	-.0195584	.0451577	-0.43	0.665	-.1080657	.068949
(2 vs base) 1	.1580928	.04503	3.51	0.000	.0698357	.24635

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18 .
    end of do-file
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