

Logistic regression: Positive Delay Rate – QuickPay (2009-2012)

Jan 22, 2023

1 Logistic Regressions (Positive Delay)

NOTE: 242,688 observations removed because of NA values (LHS: 242,688).

NOTE: 266,784 observations removed because of NA values (LHS: 242,688, RHS: 266,784).

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442/0 fixed-effects (2,333 observations) removed because of only 0 (or only 1) outcomes.

NOTES: 266,784 observations removed because of NA values (LHS: 242,688, RHS: 266,784).

11/442/0 fixed-effects (2,377 observations) removed because of only 0 (or only 1) outcomes.

Table 1: Logit model: Effect of QuickPay

Dependent Variable: Model:	$I(Delay_{it} > 0)$				
	(1)	(2)	(3)	(4)	(5)
<i>Variables</i>					
Constant	-1.97*** (0.02)	2.74*** (0.12)			
$Treat_i$	-0.46*** (0.02)	-0.12*** (0.03)	-0.14*** (0.03)	-0.18*** (0.03)	-0.20*** (0.03)
$Post_t$	0.09*** (0.02)	-1.38*** (0.13)			
$Treat_i \times Post_t$	0.21*** (0.03)	0.18*** (0.03)	0.19*** (0.03)	0.21*** (0.03)	0.22*** (0.03)
Controls		Yes	Yes	Yes	Yes
Controls $\times Post_t$		Yes	Yes	Yes	Yes
<i>Fixed-effects</i>					
Time			Yes	Yes	Yes
Task code				Yes	Yes
NAICS code					Yes
<i>Fit statistics</i>					
Observations	260,211	236,115	236,115	233,782	233,738
Squared Correlation	0.004	0.27	0.27	0.31	0.31
Pseudo R ²	0.005	0.26	0.26	0.32	0.32
BIC	180,911.3	129,642.5	129,558.3	130,818.1	130,983.6

Clustered (Project ID) standard-errors in parentheses
*Signif. Codes: ***: 0.01, **: 0.05, *: 0.1*

2 Logistic Regressions (Positive Delay) – One type

NOTE: 154,236 observations removed because of NA values (LHS: 154,236).

NOTE: 171,267 observations removed because of NA values (LHS: 154,236, RHS: 171,267).

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427/0 fixed-effects (2,008 observations) removed because of only 0 (or only 1) outcomes.

NOTES: 171,267 observations removed because of NA values (LHS: 154,236, RHS: 171,267).

10/427/0 fixed-effects (2,032 observations) removed because of only 0 (or only 1) outcomes.

Table 2: Logit model: Effect of QuickPay

Dependent Variable: Model:	$I(Delay_{it} > 0)$				
	(1)	(2)	(3)	(4)	(5)
<i>Variables</i>					
Constant	-1.99*** (0.02)	3.23*** (0.13)			
$Treat_i$	-0.17*** (0.03)	-0.01 (0.03)	-0.04 (0.03)	-0.13*** (0.03)	-0.14*** (0.03)
$Post_t$	0.10*** (0.02)	-1.33*** (0.15)			
$Treat_i \times Post_t$	0.20*** (0.03)	0.18*** (0.04)	0.20*** (0.04)	0.21*** (0.04)	0.21*** (0.04)
Controls		Yes	Yes	Yes	Yes
Controls $\times Post_t$		Yes	Yes	Yes	Yes
<i>Fixed-effects</i>					
Time			Yes	Yes	Yes
Task code				Yes	Yes
NAICS code					Yes
<i>Fit statistics</i>					
Observations	174,306	157,275	157,275	155,267	155,243
Squared Correlation	0.001	0.24	0.24	0.28	0.28
Pseudo R ²	0.002	0.22	0.23	0.28	0.28
BIC	131,157.5	98,119.7	98,054.8	100,636.0	100,926.5

Clustered (Project ID) standard-errors in parentheses

*Signif. Codes: ***: 0.01, **: 0.05, *: 0.1*

3 Logistic Regression (Positive delay) – Clean Time Independent Control

NOTE: 279,526 observations removed because of NA values (LHS: 242,688, RHS: 70,154).

NOTE: 301,032 observations removed because of NA values (LHS: 242,688, RHS: 301,032).

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440/0 fixed-effects (2,359 observations) removed because of only 0 (or only 1) outcomes.

NOTES: 301,032 observations removed because of NA values (LHS: 242,688, RHS: 301,032).

12/440/0 fixed-effects (2,397 observations) removed because of only 0 (or only 1) outcomes.

Table 3: Logit model: Effect of QuickPay

Dependent Variable: Model:	$I(Delay_{it} > 0)$				
	(1)	(2)	(3)	(4)	(5)
<i>Variables</i>					
Constant	-1.99*** (0.02)	3.07*** (0.13)			
$Treat_i$	-0.44*** (0.03)	-0.21*** (0.03)	-0.23*** (0.03)	-0.21*** (0.03)	-0.22*** (0.03)
$Post_t$	0.10*** (0.02)	-1.41*** (0.15)			
$Treat_i \times Post_t$	0.21*** (0.03)	0.22*** (0.04)	0.24*** (0.04)	0.24*** (0.04)	0.24*** (0.04)
Controls		Yes	Yes	Yes	Yes
Controls $\times Post_t$		Yes	Yes	Yes	Yes
<i>Fixed-effects</i>					
Time			Yes	Yes	Yes
Task code				Yes	Yes
NAICS code					Yes
<i>Fit statistics</i>					
Observations	223,373	201,867	201,867	199,508	199,470
Squared Correlation	0.003	0.24	0.24	0.28	0.29
Pseudo R^2	0.005	0.24	0.24	0.30	0.30
BIC	152,027.7	112,248.2	112,168.8	113,622.3	113,836.6

Clustered (Project ID) standard-errors in parentheses

*Signif. Codes: ***: 0.01, **: 0.05, *: 0.1*