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Appendix

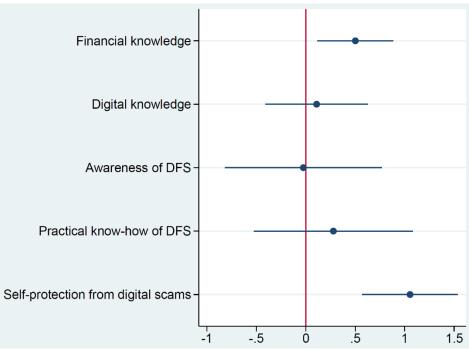


Figure A1. Coefficient estimates for subdimensions of digital financial literacy

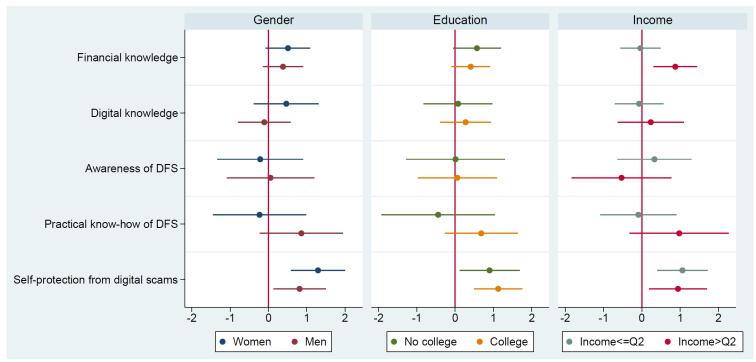


Figure A2. Subsample analysis by gender, education, and income

Table A1. CFPB financial well-being scale

Table A1. Cl 1 B illiancial well-being scale	
Part 1. How well does this statement describe you or your situation?	
1. I could handle a major unexpected expense	
2. I am securing my financial future	0=not at all,
3. Because of my money situation, I feel like I will never have the thing	1=very little,
s I want in life*	2=somewhat,
4. I can enjoy life because of the way I'm managing my money	3=very well,
5. I am just getting by financially*	4=completely
6. I am concerned that the money I have or will save won't last*	
Part 2: How often does this statement apply to you?	
7. Giving a gift for a wedding, birthday or other occasion would put a st	0=never,
rain on my finances for the month*	1=rarely,
8. I have money left over at the end of the month	2=sometimes,
9. I am behind with my finances*	3=often,
10.My finances control my life*	4=always

Notes: Response fielded on 5-point Likert scale. *Items reverse coded.

Table A2. Questionnaires regarding digital financial literacy and financial knowledge

I know how to charge digital devices such as mobile phone, computer, and tablet

I know how to turn on and off digital devices such as mobile phone, computer, and tablet

Digital knowledge*

I know how to set up self-verification via text, messenger, or biometrics
I know how to unlock digital devices via biometrics function (e.g., fingerprint, facial recognition)
I know how to get WIFI access for digital devices
I know how to download and install application in computer or mobile phones
I know how to update application in mobile phones
I know how to create user account and manage it (e.g., change or reset password)
I know how to log into the website
I know how to change/manage privacy settings of the user account
Awareness of DFS*
I'm aware that banking services are offered online or via mobile phone
I'm aware that investment equities can be traded online or via mobile phone
I'm aware that I can borrow money online or via mobile phone
I'm aware that payments can be made online or via mobile phone
I understand the purpose and usage of online/mobile banking services
I understand the purpose and usage of online/mobile stock trading
I understand the purpose and usage of online/mobile lending services
I understand the purpose and usage of online/mobile payment services
Practical know-how of DFS*
I know how to open an account on DFS application or platform
I know how to set up self-verification for DFS (e.g., text, messenger, or biometrics)
I know how to navigate DFS application or platform
I know how to initiate and complete necessary financial services (e.g, remittances, stock trading, utility pay
ment, borrowing application) via DFS application or platform
I know how to make payment using mobile payment services
I know how to cancel a transaction or order when an error orccurs in DFS application or platform
I know how to contact customer service via DFS application or platform
Self-protection from digital scams*
I know how to avoid unnecessary fees for online/mobile financial transactions
I have the ability to screen out deceptive saving schemes or borrowing services online or via mobile applic ation
I pay attention to keeping password for DFS safely
I change login and transaction credentials for DFS regularly
I know how to act when login/transaction credentials for DFS are leaked out
I tend to pass by an URL sent by an unknown financial institution
I regularly run malware detection program on computer or mobile phone
I have the ability to detect and avoid voice phishing
Financial knowledge
Imagine that you are given a gift of ₩1,000,000. If this amount of money will be deposited in an year, a
nd the inflation rate remains at 3%, how much would you be able to buy with the money you receive in
one year, as compared with receiving the same amount right now? (response: more than today; exactly the
same; less than today; depends on the type of thing I want to buy; DK; RA)
You lend ₩100,000 to a friend one evening and he gives you ₩100,000 back the next day. How much i
nterest has he paid on this loan? (response: () won; DK; RA)
Imagine that someone puts \\$1,000,000 into a <no fee,="" free="" tax=""> savings account with a guaranteed interes</no>
t rate of 2% per year. They don't make any further payments into this account and they don't withdraw a
ny money. How much would be in the account at the end of the first year, once the interest payment is
made? (response: () won; DK; RA)

and how much would be in the account at the end of five years [remembering there are no fees or tax de ductions]? (response: more than \$1,100,000; \$1,100,000; less than \$1,100,000; can't tell with the given i

In general, buying multiple stocks can help reduce exposure to investment risk (less chance of losing all th

e money if invest in multiple stocks) (response: yes; no; DK; RA)

Notes: DK, don't know; RA, refused to answer. *Response fielded on 5-point Likert scale.

High inflation means the cost of living rises rapidly (response: yes; no; DK; RA)

Investment with high returns comes with a relatively high risk (response: yes; no; DK; RA)

nformation; DK; RA)

Table A3. Associations between digital financial literacy and financial well-being, N=1615

Company	Table A3. Associations	OLS	IV 2SLS						
Digital knowledge									(8)
Digital knowledge	Financial knowledge								
Digital knowledge	8								
Awareness of DFS	Digital knowledge	()	0.873***				` /		
Awareness of DFS Collaboration Collaborat	2								
Practical know-how of DFS Image: Color of the color of t	Awareness of DFS		()	0.976***					
Practical know-how of DFS 1.084*** 0.279 Color (0.409) Color (0.208) (0.247) Color (0.208) (0.247) Color (0.193) (1.70 Assistance (0.193) (1.70 Assistance (0.193) (1.70 Assistance (0.193) (1.70 Assistance (0.193) (0.024) (0.02									
DFS Celf-protection from digital scams (0.195) (0.208) (0.409) Celf-protection from digital scams (0.208) (0.247) Celf-protection from digital scams (0.208) (0.247) Celf-protection from digital scams (0.208) (0.247) (0.193) (1.70 3.542 (0.193) (1.70 3.542 (0.193) (1.70 0.088 0.046* 0.051** 0.051** 0.058** 0.046* 0.051** 0.031** 0.088 0.046* 0.051** 0.051** 0.088 0.046* 0.051** 0.051** 0.088 0.046** 0.051** 0.051** 0.088 0.046* 0.051** 0.051** 0.088 0.049 0.061* 0.024* 0.002* 0.051** 0.088 0.049 0.061* 0.044** 1.476*** 1.401*** 1.621** 0.088 0.049** 0.016* -0.045* 0.045* 0.047* 0.043* 0.049** 0.040** 0.045* 0.016* 0.045* 0.016* 0.045* 0.016* 0.045* 0.016** 0.045* 0.016* 0.045*	Practical know-how of			()	1.084***				
Self-protection from digital scams Co.208 1.056*** 1.056*** 1.330*** 1.330*** 3.542* Digital financial literacy 0.026 0.051** 0.051** 0.058** 0.046* 0.051** 0.051** 0.058** 0.046* 0.051** 0.051** 0.088** 0.046* 0.051** 0.051** 0.089** Female 1.381*** 1.258*** 1.268*** 1.243*** 1.440*** 1.476*** 1.401*** 1.621 Vocational college -0.039 -0.031 -0.094 -0.016 -0.045 -0.165 -0.199 -0.7 graduate (0.655) (0.659) (0.658) (0.659) (0.659) (0.659) 0.659<									
digital scams Digital financial literacy (0.208) (0.247) 1.330*** 3.542 Age 0.026 0.051** 0.051** 0.058** 0.046* 0.051** 0.051** Female 1.381*** 1.258*** 1.268*** 1.243*** 1.440*** 1.476*** 1.401*** 1.621 Vocational college 0.039 -0.031 -0.094 -0.016 -0.045 -0.165 -0.199 -0.7 graduate (0.655) (0.659) (0.658) (0.659) (0.659) (0.659) (0.529) (0.529) (0.529) (0.529) (0.529) (0.529) (0.529) (0.529) (0.529) (0.529) (0.529) (0.529) (0.529) (0.529) (0.659) (0.659) (0.655) (0.659) (0.655) (0.659) (0.659) (0.659) (0.659) (0.659) (0.659) (0.659) (0.659) (0.659) (0.659) (0.659) (0.659) (0.659) (0.659) (0.659) (0.659) (0.659) (0.659) (0.659)					,	1.306***			
Digital financial literacy Image: Color of the color of									
Age 0.026 0.051** 0.051** 0.058** 0.046* 0.051** 0.051** 0.08 Female 1.381*** 1.258*** 1.268*** 1.243*** 1.440*** 1.476*** 1.401*** 1.621 Vocational college -0.039 -0.031 -0.094 -0.016 -0.045 -0.165 -0.199 -0.7 graduate (0.655) (0.659) (0.658) (0.659) (0.655) (0.655) (0.659) (0.658) (0.659) (0.655) (0.653) (0.656) (0.81 4-year college 2.179*** 2.283*** 2.199*** 2.250*** 2.135*** 1.930*** 1.939*** 1.06 graduate (0.522) (0.526) (0.525) (0.523) (0.526) (0.525) (0.523) (0.526) (0.525) (0.523) (0.526) (0.525) (0.523) (0.526) (0.525) (0.523) (0.526) (0.525) (0.523) (0.526) (0.525) (0.523) (0.526) (0.526) (0.525) (0.525) (0.523)						,	,	1.330***	3.542**
Age 0.026 0.051** 0.051** 0.058** 0.046* 0.051** 0.051** 0.085 Female (0.024) (0.028) (0.381) (0.381) (0.381) (0.381) (0.381) (0.321)	,								(1.700)
Female (0.024) (0.224) (0.224) (0.224) (0.224) (0.224) (0.224) (0.424) (0.424) (0.424) (0.424) (0.424) (0.042) (0.042) (0.042) (0.042) (0.042) (0.042) (0.042) (0.042) (0.042) (0.042) (0.042) (0.048) (0.058) (0.058) (0.055) (0.055) (0.055) (0.053) (0.525) (0.525) <th< td=""><td>Age</td><td>0.026</td><td>0.051**</td><td>0.051**</td><td>0.058**</td><td>0.046*</td><td>0.051**</td><td></td><td>0.089**</td></th<>	Age	0.026	0.051**	0.051**	0.058**	0.046*	0.051**		0.089**
Female 1.381*** 1.258*** 1.268*** 1.243*** 1.440*** 1.476*** 1.401*** 1.601 Vocational college -0.039 -0.031 -0.094 -0.016 -0.045 -0.165 -0.199 -0.7 graduate (0.655) (0.659) (0.658) (0.659) (0.655) (0.653) (0.656) (0.84 4-year college 2.179*** 2.283*** 2.199*** 2.250*** 2.135*** 1.930*** 1.939*** 1.06 graduate (0.520) (0.526) (0.525) (0.525) (0.523) (0.526) (0.525) Post graduate degree 3.565*** 3.480*** 3.403*** 3.454*** 3.393*** 3.118*** 3.107*** 1.81 Single 0.647 0.603 0.540 0.547 0.665 0.599 0.541 0.29 Separated, divorced, 0.021 -0.171 -0.126 -0.119 0.128 -0.059 -0.218 -0.3 Widowed (0.894) (0.891) (0.88		(0.024)	(0.024)	(0.024)	(0.024)	(0.024)	(0.024)	(0.024)	(0.038)
Vocational college (0.383) (0.382) (0.381) (0.381) (0.381) (0.382) (0.379) (0.4379) graduate -0.039 -0.031 -0.094 -0.016 -0.045 -0.165 -0.199 -0.7 graduate (0.655) (0.659) (0.658) (0.659) (0.655) (0.653) (0.656) (0.81 4-year college 2.179*** 2.283*** 2.199*** 2.250*** 2.135*** 1.930*** 1.939*** 1.06 graduate (0.522) (0.526) (0.525) (0.525) (0.523) (0.526) (0.525) (0.89 Post graduate degree 3.565*** 3.480*** 3.403*** 3.454*** 3.393*** 3.118*** 3.107*** 1.81 6 (0.776) (0.776) (0.769) (0.772) (0.776) (0.774) (1.28 8 6 0.647 0.603 0.540 0.547 0.665 0.599 0.541 0.29 8 2 0.526) 0.526)	Female								1.621***
Vocational college -0.039 -0.031 -0.094 -0.016 -0.045 -0.165 -0.199 -0.79 graduate (0.655) (0.659) (0.658) (0.659) (0.655) (0.653) (0.656) (0.81 4-year college 2.179*** 2.283*** 2.199*** 2.250*** 2.135*** 1.930*** 1.939*** 1.06 graduate (0.522) (0.526) (0.525) (0.523) (0.526) (0.525) (0.89 Post graduate degree 3.565*** 3.480*** 3.403*** 3.454*** 3.393*** 3.118*** 3.107*** 1.81 (0.776) (0.768) (0.770) (0.769) (0.772) (0.776) (0.774) (1.28 Single 0.647 0.603 0.540 0.547 0.665 0.599 0.541 0.29 Separated, divorced, 0.021 -0.171 -0.126 -0.119 0.128 -0.059 -0.218 -0.88 widowed (0.894) (0.891) (0.886) (0.883) <td></td> <td>(0.383)</td> <td>(0.382)</td> <td>(0.381)</td> <td>(0.381)</td> <td>(0.381)</td> <td>(0.382)</td> <td></td> <td>(0.436)</td>		(0.383)	(0.382)	(0.381)	(0.381)	(0.381)	(0.382)		(0.436)
graduate (0.655) (0.659) (0.658) (0.659) (0.655) (0.653) (0.656) (0.81) 4-year college 2.179*** 2.283*** 2.199*** 2.250*** 2.135*** 1.930*** 1.939*** 1.06 graduate (0.522) (0.526) (0.525) (0.525) (0.523) (0.526) (0.525) (0.89 Post graduate degree 3.565*** 3.480*** 3.403*** 3.454*** 3.393*** 3.118*** 3.107*** 1.81 (0.776) (0.768) (0.770) (0.769) (0.772) (0.776) (0.774) (1.28 Single 0.647 0.603 0.540 0.547 0.665 0.599 0.541 0.29 Separated, divorced, 0.021 -0.171 -0.126 -0.119 0.128 -0.059 -0.218 -0.8 widowed (0.894) (0.891) (0.886) (0.883) (0.871) (0.872) (0.872) (0.98 Household income 0.001 0.001 0.0176 <td>Vocational college</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td>-0.719</td>	Vocational college								-0.719
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Post graduate degree 3.565*** 3.480*** 3.403*** 3.454*** 3.393*** 3.118*** 3.107*** 1.81 Single 0.647 0.603 0.540 0.547 0.665 0.599 0.541 0.29 Separated, divorced, widowed 0.021 -0.171 -0.126 -0.119 0.128 -0.059 -0.218 -0.8 Household size -0.431** -0.457** -0.418** -0.407** -0.404** -0.415** -0.432** -0.441 Household income 0.001 0.000 0.001 0.000 0.001 0.000 0.001 0.001 0.002 Financial assets 0.002*** 0.00		(0.522)	(0.526)	(0.525)	(0.525)	(0.523)	(0.526)	(0.525)	(0.893)
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Separated, divorced, widowed 0.021 -0.171 -0.126 -0.119 0.128 -0.059 -0.218 -0.82 Household size (0.894) (0.891) (0.886) (0.883) (0.871) (0.872) (0.872) (0.98 Household size -0.431** -0.457** -0.418** -0.407** -0.404** -0.415** -0.432** -0.448 (0.178) (0.177) (0.176) (0.176) (0.176) (0.177) (0.177) (0.18 Household income 0.001 0.000 0.001 0.001 0.001 0.001 0.001 0.001 0.001 0.001 0.001 0.001 0.001 0.001 0.001 0.001 0.001 0.002*** <	Single	0.647	0.603	0.540	0.547	0.665	0.599	0.541	0.298
widowed (0.894) (0.891) (0.886) (0.883) (0.871) (0.872) (0.872) (0.982) Household size -0.431^{**} -0.457^{**} -0.418^{**} -0.407^{**} -0.404^{**} -0.415^{**} -0.432^{**} -0.442^{**} Household income (0.178) (0.177) (0.176) (0.176) (0.176) (0.177) (0.177) (0.177) (0.177) (0.177) (0.177) (0.176) (0.176) (0.176) (0.176) (0.177) (0.177) (0.177) (0.176) (0.001) <t< td=""><td></td><td>(0.533)</td><td>(0.530)</td><td>(0.529)</td><td>(0.528)</td><td>(0.526)</td><td>(0.526)</td><td>(0.527)</td><td>(0.567)</td></t<>		(0.533)	(0.530)	(0.529)	(0.528)	(0.526)	(0.526)	(0.527)	(0.567)
Household size $ \begin{array}{ccccccccccccccccccccccccccccccccccc$	Separated, divorced,	0.021	-0.171	-0.126	-0.119	0.128	-0.059	-0.218	-0.830
Household income $ \begin{array}{c} (0.178) & (0.177) & (0.176) & (0.176) & (0.176) & (0.177) & (0.177) & (0.188) \\ 0.001 & 0.000 & 0.001 & 0.001 & 0.000 & 0.001 & 0.001 & 0.001 \\ (0.001) & (0.001) & (0.000) & (0.000) & (0.001) & (0.001) & (0.001) & (0.001) \\ 0.002^{***} & 0.002$	widowed	(0.894)	(0.891)	(0.886)	(0.883)	(0.871)	(0.872)	(0.872)	(0.983)
Household income 0.001 0.000 0.001 0.001 0.000 0.001 0.001 0.001 0.001 (0.001) (0.001) (0.001) (0.000) (0.000) (0.001)	Household size	-0.431**	-0.457**	-0.418**	-0.407**	-0.404**	-0.415**	-0.432**	-0.448**
Financial assets		(0.178)	(0.177)	(0.176)	(0.176)	(0.176)	(0.177)	(0.177)	(0.185)
Financial assets 0.002*** 0.00	Household income		0.000					0.001	0.001
Any risky equity (0.001) (0.00									(0.001)
Any risky equity 2.074*** 2.183*** 1.800*** 1.999*** 2.122*** 1.932*** 1.806*** 1.00 (0.488) (0.480) (0.491) (0.482) (0.472) (0.494) (0.494) (0.484) (0.76	Financial assets	0.002***	0.002***	0.002***		0.002***	0.002***	0.002***	0.002***
(0.488) (0.480) (0.491) (0.482) (0.472) (0.494) (0.484) (0.762) Poverty status									(0.001)
Poverty status 0.462 0.507 0.595 0.546 0.593 1.144 1.208 3.52 (1.362) (1.379) (1.396) (1.371) (1.361) (1.424) (1.423) (2.50	Any risky equity								1.006
(1.362) (1.379) (1.396) (1.371) (1.361) (1.424) (1.423) (2.50)									(0.765)
	Poverty status								3.528
Long-term rental -0.153 -0.173 -0.119 -0.109 -0.036 0.002 -0.050 0.22									(2.503)
	Long-term rental	-0.153	-0.173	-0.119	-0.109	-0.036	0.002	-0.050	0.226
									(0.552)
	Short-term rental								-1.554***
		` /	` /		\ /		` /	\ /	(0.528)
	Urban								-1.041*
		(0.434)	(0.433)	(0.433)	(0.432)	(0.432)	(0.431)	(0.431)	(0.591)
									22.52
statistic ^a									11.50
Cragg-Donald Wald F statistic ^b									11.52

Notes: OLS, ordinary least squares; IV, instrumental variable; 2SLS, two-stage least squares; DFS, digital financial services. Robust standard errors in parentheses. Regressions control for province fixed effects. a Kleibergen-Paap LM statistic for underidentification test. b Cragg-Donald Wald F statistic for weak identification test. $^***p < 0.01$; $^**p < 0.05$; $^**p < 0.10$.

Table A4. Subsample analyses, N=1615

Table A4. Subsample analyses, N=1615								
	Women	Men	Less than	College	HH income			
			college	graduate	≤ median	> median		
	(1)	(2)	(3)	(4)	(5)	(6)		
Financial knowledge	0.511*	0.380	0.569*	0.407	-0.039	0.872***		
	(0.295)	(0.267)	(0.317)	(0.255)	(0.267)	(0.289)		
Digital knowledge	0.466	-0.107	0.077	0.273	-0.072	0.234		
	(0.430)	(0.351)	(0.457)	(0.341)	(0.323)	(0.440)		
Awareness of DFS	-0.214	0.053	0.010	0.058	0.328	-0.531		
	(0.571)	(0.581)	(0.658)	(0.525)	(0.492)	(0.662)		
Practical know-how of	-0.232	0.859	-0.443	0.680	-0.091	0.975		
DFS	(0.619)	(0.552)	(0.754)	(0.484)	(0.508)	(0.659)		
Self-protection from	1.295***	0.813**	0.900**	1.124***	1.058***	0.944**		
digital scams	(0.359)	(0.347)	(0.398)	(0.318)	(0.334)	(0.386)		
Age	0.072**	0.032	0.004	0.072**	0.046	0.070*		
S	(0.036)	(0.033)	(0.040)	(0.031)	(0.032)	(0.038)		
Female	()	()	0.279	1.852***	1.112**	1.987***		
			(0.665)	(0.468)	(0.532)	(0.545)		
Vocational college	-1.060	1.224	,	,	0.106	-0.213		
graduate	(0.943)	(0.905)			(0.820)	(1.064)		
4-year college	2.314***	2.039***			2.208***	1.116		
graduate	(0.759)	(0.756)			(0.696)	(0.819)		
Post graduate degree	3.823***	2.929***			3.418***	2.244**		
8	(1.237)	(1.000)			(1.136)	(1.102)		
Single	1.376*	0.092	1.547*	0.286	-0.846	-0.141		
8	(0.772)	(0.728)	(0.886)	(0.662)	(0.619)	(0.829)		
Separated, divorced,	1.348	-1.332	1.318	-0.836	0.195	-0.239		
widowed	(1.176)	(1.313)	(1.271)	(1.195)	(1.007)	(1.717)		
Household size	-0.600**	-0.278	-0.292	-0.528**	,	,		
	(0.254)	(0.250)	(0.304)	(0.223)				
Household income	0.000	0.002*	0.001	0.000	0.030*	-0.000		
	(0.000)	(0.001)	(0.001)	(0.001)	(0.016)	(0.001)		
Financial assets	0.001	0.003***	0.001**	0.002**	0.001**	0.003***		
	(0.001)	(0.001)	(0.001)	(0.001)	(0.000)	(0.001)		
Any risky equity	2.654***	1.321*	1.736**	2.151***	2.513***	0.973		
J J 1 J	(0.695)	(0.696)	(0.805)	(0.640)	(0.635)	(0.757)		
Poverty status	-0.432	2.646**	0.247	1.741	2.359	,		
•	(2.392)	(1.215)	(1.805)	(2.054)	(1.482)			
Long-term rental	-0.081	0.099	-0.059	-0.119	-0.447	0.873		
	(0.687)	(0.707)	(0.991)	(0.593)	(0.666)	(0.700)		
Short-term rental	-1.684**	-1.299*	-1.586**	-1.532**	-1.792***	0.460		
	(0.731)	(0.714)	(0.799)	(0.650)	(0.628)	(0.880)		
Urban	-0.665	-0.385	-1.405*	-0.114	-1.059*	0.056		
	(0.652)	(0.568)	(0.783)	(0.524)	(0.589)	(0.618)		
N	788	827	572	1043	808	807		
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Notes: DFS, digital financial services; N, number of observations. Robust standard errors in parentheses. Regressions control for province fixed effects. *** p < 0.01; ** p < 0.05; * p < 0.10.