



(M..., 2017).

R ; fi

M Q (1996)

fi V C P T ( ). T

z 1 9 D C P T ( )

). M , T D -N /

O -T (F..., 2008). A B B (2015),

C & B..., 2009; V..., W F..., T..., & T... (2011). A

T... I fi ,

I fi ,

.I ,

G (B..., L..., & M..., 2006; B..., R..., & B..., 2007). I fi

I G T (

1,250 Y (  $\mathbb{E} : -250 = 10 \times 100 - 1,250$ ),  $\mathbb{E}$  fi :  $\mathbb{E}$   
 10 D C 1,000 Y (  $\mathbb{E}$  1/6),  
 D, 250 Y (  $\mathbb{E} : 250 = 10 \times 50 - 250$ ). T , 500 Y (  $\mathbb{E}$   
 $\mathbb{E}$  D A B  $\mathbb{E}$   $\mathbb{E}$  2/6),  $\mathbb{E}$   
 ,  $\mathbb{E}$  ,  $\mathbb{E}$  D C D 200 Y (  $\mathbb{E}$  3/6),  
 $\mathbb{E}$  ,  $\mathbb{E}$  ;  
 $\mathbb{E}$  . I ,  $\mathbb{E}$  D  
 A B  $\mathbb{E}$  ,  $\mathbb{E}$  B  
 D C D  
 M , D A C 50%  $\mathbb{E}$   
 , D B D 10%  
 . T , D A C  
 , D B D  
 (B ., 1994, 2005). T fi  
 $\mathbb{E}$  20 ,  $\mathbb{E}$   $\mathbb{E}$   
 $\mathbb{E}$   $\mathbb{E}$   $\mathbb{E}$  E-P  $\mathbb{E}$  T  $\mathbb{E}$   
 S T , P  $\mathbb{E}$  , PA). (P  $\mathbb{E}$

**Game of Dice Task**

T G D T ( F  $\mathbb{E}$  2)  $\mathbb{E}$  -  
 B , F  $\mathbb{E}$  , (2005)  $\mathbb{E}$   
 , I G  $\mathbb{E}$   
 T . A  $\mathbb{E}$   $\mathbb{E}$  ,  
 1,000 Y ,  
 18 . B , fi  
 $\mathbb{E}$  , ,  
 T fi  $\mathbb{E}$

Table 1 C

	I	G	T		
RIQ	98.03 ± 8.43		107.83 ± 11.92	-4.030	62.98 .000
H-NIQ	94.75 ± 6.72		109.44 ± 9.82	-7.410	70.00 .000

RIQ=R A IQ, H-NIQ=IQ H -N T L

Table 2 C

	G	D	T		
RIQ	97.31 ± 8.77		107.83 ± 11.92	-4.268	64.28 .000
H-NIQ	91.44 ± 10.66		109.44 ± 9.82	-7.452	70.00 .000

RIQ=R A IQ, H-NIQ=IQ H -N T L

N T L A ,

1 2). T , R IQ (RIQ) IQ (H-NIQ)

fl

Iowa Gambling Task

Results of deck selections

A z

( H-NIQ, RIQ),

T fi ( = 130.91, < .001),

D A C,

( < .01, > .05) ( < .01, > .05). T

fi ( = 4.89, < .01),

D B D

fi ( = 2.96, < .001),

D A, B,

C D D B 1. T

fi ( < .01, > .05). I

( = 2.24, < .01),

D D B 1( T 3 4).

F

I G T

D A, B, C, D

(H-NIQ, RIQ),

fi ( = 5.22, < .05,  $\eta^2 = .07$ );

T

( < .01, > .05).

T B ( = 3.21, < .05,  $\eta^2 = .05$ ) D D ( = 2.65, < .05,  $\eta^2 = .04$ ). S

Table 3 M

				D (= 36)	H (= 36)
B 1	D A			4.75 (1.71)	4.33 (2.27)
	D B			5.58 (2.56)	6.97 (3.71)
	D C			4.81 (1.69)	4.11 (2.03)
B 2	D D			4.86 (2.57)	4.58 (1.99)
	D A			3.75 (2.05)	3.33 (1.80)
	D B			7.03 (4.05)	7.03 (3.41)
B 3	D C			4.22 (2.19)	3.75 (2.26)
	D D			5.00 (3.03)	5.89 (2.93)
	D A			3.36 (2.1)	3.28 (1.95)
B 4	D B			7.89 (3.73)	6.28 (3.06)
	D C			4.03 (2.16)	3.78 (2.33)
	D D			4.72 (2.61)	6.67 (3.19)
B 5	D A			2.94 (1.76)	2.92 (1.86)
	D B			7.78 (3.31)	7.06 (3.44)
	D C			4.08 (2.23)	4.11 (2.92)
B 5	D D			5.19 (2.64)	5.92 (2.20)
	D A			2.94 (2.07)	3.50 (2.50)
	D B			8.50 (3.26)	6.69 (3.45)
B 5	D C			3.61 (2.13)	3.75 (2.57)
	D D			4.94 (2.57)	6.06 (2.60)

D B ( = 7.86, < .01,  $\eta^2 = .10$ )

( = 11.30, < .01,  $\eta^2 = .14$ )

D D

D B,

D D,

( F 3).

Results of loss frequency selections

A z

fi

H-NIQ RIQ

A T 5,

fi ( = 468.86, < .001):

fi

( < .01, > .05). L

fi ( = 11.203, < .001):

fi

B 1. T

fi

( < 2.07, > .05).

Task understanding

A B (1994), D A B

," D C D "A

100 I G T

fi

fi

( D A,  $\chi = .82, = .85$ ; D B,  $\chi = 3.56, = .31$ ; D C,  $\chi = 2.52, = .47$ ; D D,  $\chi = 1.83, = .61$ ). M

D C

D 2 ;

C D D 1 ;

Table 4 G

F	E			
D				130.91***
D A—D D		-2.56	.62	-4.10***
D C—D D		-2.31	.62	-3.70***
D *G				4.89**
T D B 1—T D D 1		2.92	.88	3.31**
D *G				2.88**
T D A B 1—T D D B 1		2.31	.88	2.61**
T D B B 1—T D D B 1		1.75	.88	1.98*
T D C B 1—T D D B 1		1.83	.88	2.08*
D *G				2.24**
T D B 1—T D D B 1		-4.58	1.24	-3.67***

\*.05 > .01, \*\*.01 > .001, \*\*\* < .001.

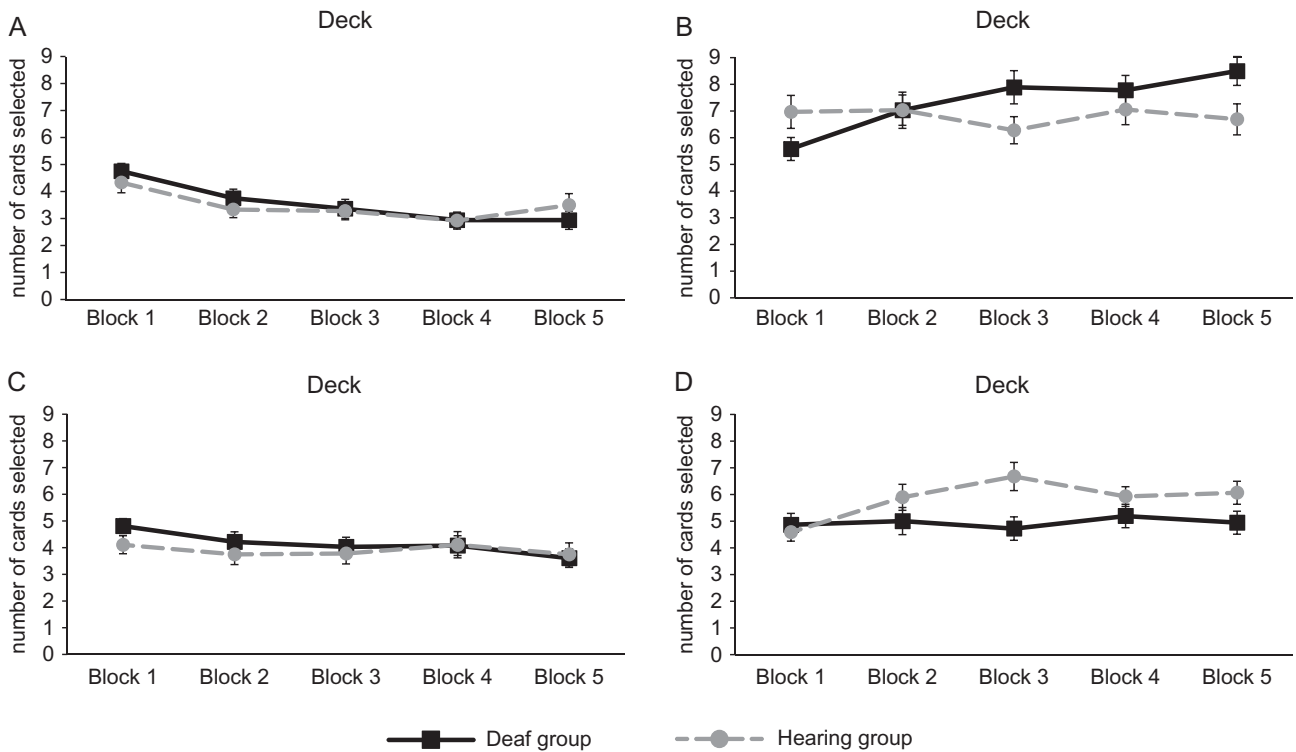


Figure 3 N (M ± SEM) D A, B, C, D

Table 5 L

F	E			
L H 1—L		-5.50	.72	-7.64***
L H 1—L		2.39	1.02	2.34*

\*.05 > .01, \*\*.01 > .001, \*\*\* < .001.

Game of Dice Task

.A D C D D 1—L 1 F G D T (χ = .83, = .66).

Table 6 M

	D ( = 36)	H ( = 36)
O	6.47 (5.25)	1.94 (2.67)
T	3.22 (2.29)	3.47 (3.69)
F	2.72 (1.92)	4.83 (2.94)
F	5.58 (4.98)	7.75 (5.38)

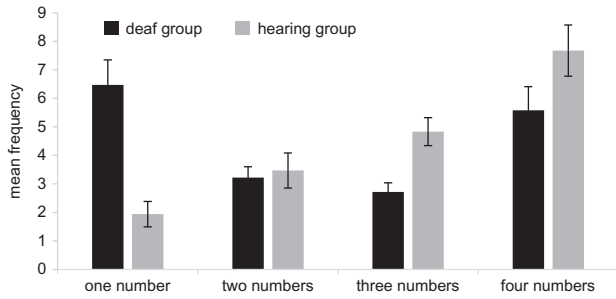


Figure 4 N

(M ± SEM) G D T M

H-NIQ RIQ

( = 2.36, = .08,  $\eta^2 = .03$ ) ( < 0.01, = 1.00,  $\eta < .01$ ),

( = 3.58, < .05,  $\eta^2 = .05$ ). F

( = 6.96, < .05,  $\eta^2 = .09$ ).

( = 5.97, < .01),

( = 11.05, < .001),

( = 6.96, < .05,  $\eta^2 = .09$ ).

Discussion

T fi

I G T

G D T

T D B

I G T , D B I

G T (L , C , L , & H , 2007). M

G D T , A

(F , 2008; H , 2013; K , 2014),

G T . F

(M , 2002; O , O , A , B R , & L G , 2017). T G D T

(B , F , 2005; G , P , S , & B , 2014; S , G -A , G -V , C -T fi , & B , 2015),

(S , 2015),

(B & S , 2013). I

T (P B),

(S , 2014). I

I

L , J , K , & P , 2003; M , 2000)

G D T

A

(2006)

(B , D , T , & D , 1997). M

U -W

(B , G , 2007),

(E , 2009; S , 2012). T

## Conflict of Interest

N

W fl (L z-C , D z , & M z-L z, 2012). H I G T G D T H I G T A I G T A D A C I G T P A O I G T D B D T T H X , & B , 2012). S fl (C , 2010; S ,

## Conclusion

O (I G T ) A I G T H ;

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T S F C 31171076. N N

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“F L . . . . . :10.1006/1999.0734.

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I G I T . . . . .



