

17.

18. A

.J . 19

. I

. B

800

. I

20,21 . C

22

23 25

11,26,27 .

28

. H

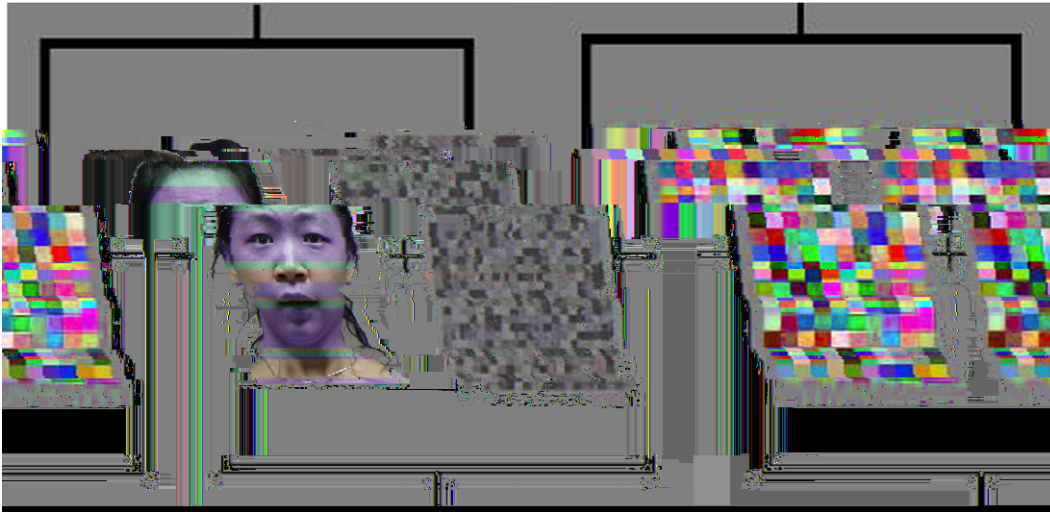


Figure 1. A sample stimulus in the invisible condition. The left image was presented to the non-dominant eye and the right image was presented to the dominant eye.
doi:10.1371/journal.pone.0020305.g001

256
(F 2).
,
,
,
)
, 64
B , 50

× (F (1, 44) = 3.75, p = 0.059),
Invisible condition. A
H A L A F 4.
A 2 () × 2 () × 2 ()
A A
(F (1, 44) = 6.59, p = 0.014),
(F (1, 44) = 4.77, p = 0.034), (F (1,

Design. F

().
()

A J (2006) 19 .

A

Results

Visible condition. A
H A L A F 3. A
2 × 2 × 2 - A A,
(/) , (H A/L A)

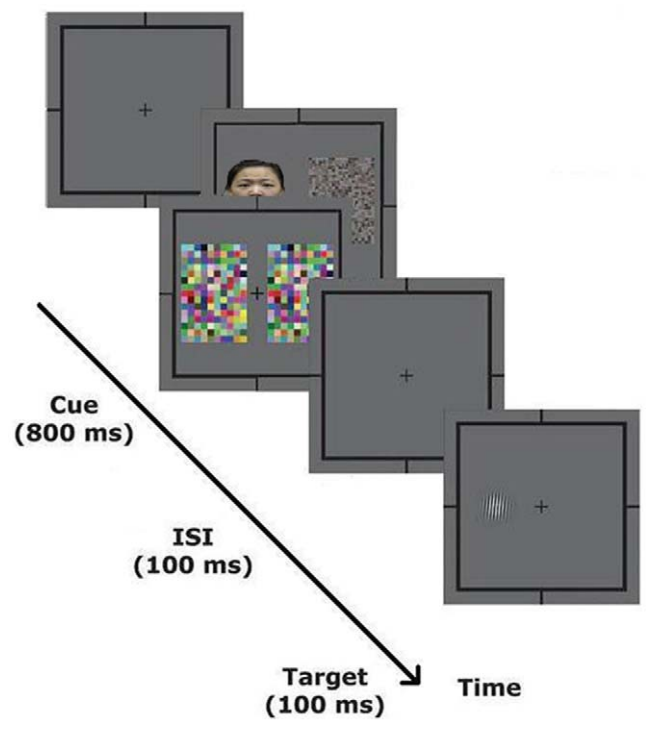


Figure 2. A schematic description of the experimental procedure in the invisible condition.
doi:10.1371/journal.pone.0020305.g002

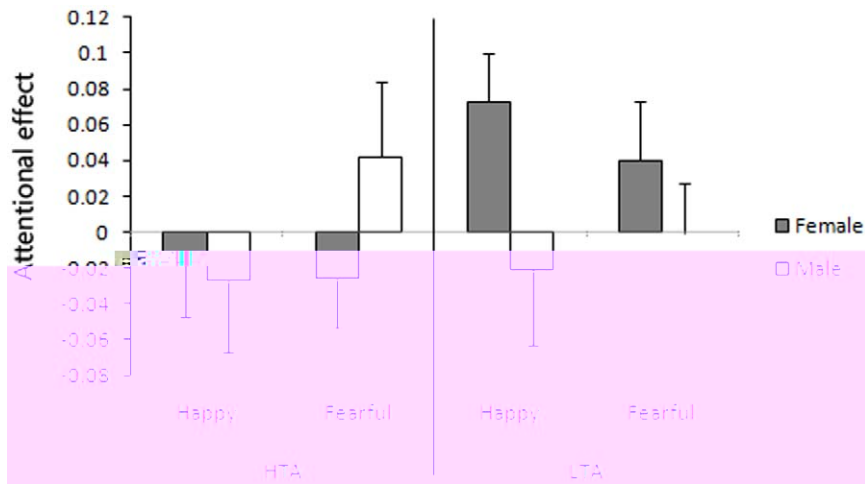


Figure 3. Attention bias and avoidance by happy and fearful faces in the visible condition. The results indicated no significant main effect or interaction. Error bars denote 1 SEM calculated across subjects. doi:10.1371/journal.pone.0020305.g003

2 () × 2 () A H A , H ,
 L A (F (1, 22) = 5.35, p = 0.031), L A (F (1, 22) = 1.89, p = 0.183). I H A (F (1, 22) = 4.11, p = 0.055). A
 H A ((11) = 2.66, p = 0.022). I H A ((11) = 2.01, p = 0.069).

Methods
Participant.

Stimuli and Procedure.

Experiment 2

I E 1, () H A (12

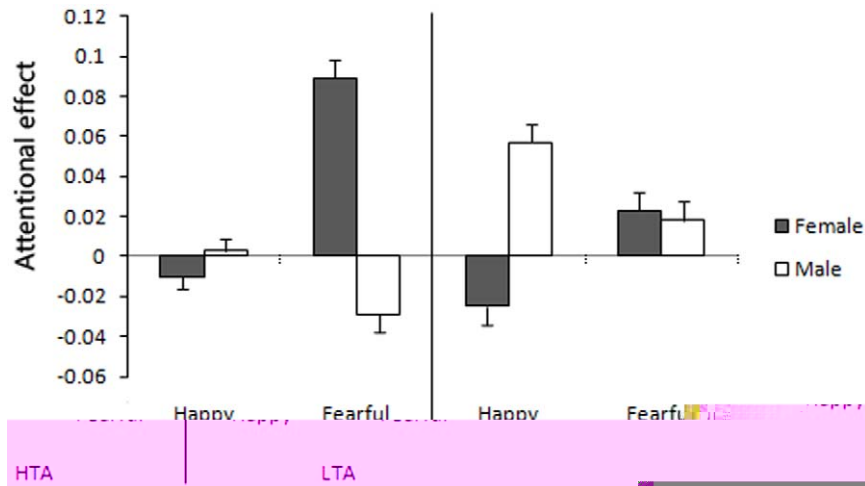


Figure 4. Attention bias and avoidance by happy and fearful faces in the invisible condition. The results indicated a gender difference of attentional effect induced by emotional pictures. And the 839TDFigu839ii(bias3i9Ap2.95.05358Bsc6.3(s)-21sntional)48.9*05356(m(Fi7een)-633.8(d47.47ndent)-6339T5o

Table 2. STAI-TAI scores of female and male participants in HTA group and T-Test between two genders.

	Female	Male	t	P
HTA	52.83(9.77)	52.83(6.64)	0.00	1.00

doi:10.1371/journal.pone.0020305.t002

Design.

(...) . D

Results

A H A (/ /) - F 5. A 2 (/) × 3 A A

(F (2, 33) = 5.6, p = 0.008),
(F (1, 34) = 8.62, p = 0.006). A

((17) = 2.89, p = 0.01),
((17) = -3.75, p = 0.002). H A

. A , (F 5).

Discussion

H A , H A , H A

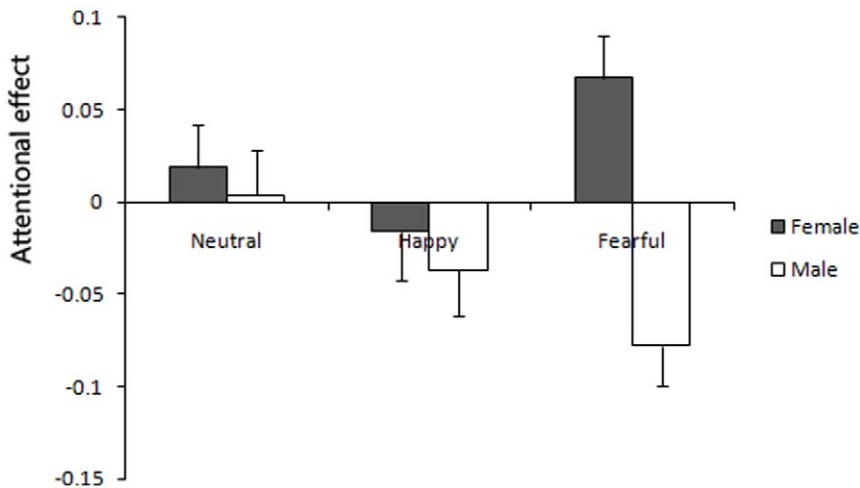


Figure 5. Attention bias and avoidance by neutral, happy and fearful faces in the invisible condition. Female participants exhibited attentional bias to fearful faces, while male participants exhibited attentional avoidance of fearful faces. This result supported that there was gender difference in HTA population. Additionally, we did not find attentional effects by both neutral and happy faces. Error bars denote 1 SEM calculated across subjects.

doi:10.1371/journal.pone.0020305.g005

H A

K B 45).

19. I

8,42,43

C

44. I

Author Contributions

C : J Z G. A : J Z . C
 / / : J Z : J Z
 FF.

References

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 C E 12: 737 753.
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 E 13: 713 740.
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 36: 809 848.
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 B 33: 927 935.
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 B 55: 1047 1055.
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 A J 29: 114 117.
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 58: 1 12.
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