


Same meaning but different feelings: Different expressions influence satisfaction in social comparisons

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Abstract. This study examined how different expressions of social comparison affect satisfaction. In two experiments, participants were asked to compare their performance to a peer's performance using different expressions. The results showed that the same meaning but different expressions influenced satisfaction differently. Specifically, the expression "I am better than my peer" led to higher satisfaction than "My peer is worse than me".

Key words: direction of comparison, framing effect, social comparison.

At the beginning of the 20th century, social comparison theory was proposed by Festinger (1954). It suggests that individuals evaluate their own abilities and abilities by comparing them to others. This process is influenced by the direction of comparison. For example, comparing oneself to a peer who is worse than oneself leads to higher satisfaction than comparing oneself to a peer who is better than oneself. This is because the former comparison is more favorable. In addition, the framing effect also plays a role in social comparison. For example, the expression "I am better than my peer" is more favorable than "My peer is worse than me". This is because the former expression is more positive. Therefore, the same meaning but different expressions can influence satisfaction differently.

Research has shown that the direction of comparison and the framing effect both influence satisfaction in social comparisons. For example, comparing oneself to a peer who is worse than oneself leads to higher satisfaction than comparing oneself to a peer who is better than oneself. This is because the former comparison is more favorable. In addition, the framing effect also plays a role in social comparison. For example, the expression "I am better than my peer" is more favorable than "My peer is worse than me". This is because the former expression is more positive. Therefore, the same meaning but different expressions can influence satisfaction differently.

Social comparison

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t... bl... r... t... r... fr... t... :... t
 ... r... t... 5 t 5 l... r... t... a... 5
 ... r... t... 5 t t... fr... t... a... 5 t... r...
 t... r... r... t... r... fr... t... a... m... r...
 a... (H & @... 1986; H & ... r...
 1999). ... r... t... a... 5 5a... l... 5 5
 ... m... t... a... 5 a... a... t... (H k... 992; H &
 @... 1986). A... r... 5... l... l... t... a... r...
 ... t... t... r... t... fr... t... 15... t...
 ... r... t... a... 5... r... fr... , a... 5... r... a... 5... m... r...
 a... r... f... l... fr... t... r... I... a... t... a... a... l... m...
 a... r... r... l... t... 15... a... r... a... t... r... m... a... 5... 5...
 a... l... a... t... t... a... l... a... l... a... r... 5... m... a... r... f...
 a... t... r... m... a... t... a... t... r... t... fr... t... ,
 15... f... l... t... a... r... m... r... r... t... a... t... r... ;
 t... r... fr... r... a... t... t... r... l... 5... a...
 ... m... r... a... r... l... 5... a... r... 5... m... a... r... t... r...
 ... t... a... t... fr... fr... a... l... r... 15... m... k...
 t... k... t... a... r... m... b... t... r... a... t... r... a... r...
 ... r... a... t... 5... r... l... m... a... r... 5...
 B... 5... t... a... b... m... t... 5... 5... m... a... r... 5...
 ... t... t... r... r... r... f... t... m... a... r... b... t... r... /... r... t... a... /
 ... b... t... r... /... r... t... a... t... r... r... f... t... m...
 a... r... m... /... r... r... t... r... l... a... m... b... t... r... /... r... t... a...
 ... m... /... r... r... a... r... b... t... r... /... r... t... a...
 ... 5a... m... r... r... a... a... 5... l... a... 5... t... a... r... m... t... a...
 t... fr... 5... 5a... l... t... r... a... l... m... a... r...
 ... fr... t... A... r... 5... l... 5... 5a... l... 15... r... t...
 ... fr... t... m... r... 5... l... a... 5... a... r... f... l... l... a... 5... t... a... l...
 ... a... r... r... l... t... 15... a... a... r... a... t... r...
 ... 5... 5a... l... a... t... t... t... f... fr... , a... m... t... t...
 r... fr... t... f... f... t... 5... b... :
 H1: I... a... r... 5... m... a... r... m... a... r... 5... t... t...
 ... r... /... b... t... r... t... a... m... /... 5... 5a... l...
 a... t... t... 15... b... l... r... t... t... r... l... a... m... /
 ... a... r... r... t... a... b... t... r... t... a... m... /... r...
 H2: I... 5... a... r... 5... m... a... r... m... a... r... 5... t... t...
 ... r... /... r... t... a... m... /... 5... 5a... l...
 a... t... t... 15... b... r... t... t... r... I...
 a... m... /... a... r... b... t... r... t... a... m... /... r...
 H3: m... t... t... f... fr... t... r... m... 5...
 a... t... t... r... a... t... b... t... 5... f... f... r... t... r... a... 5...
 a... t... t... t... ;... a... l... t... a... m... a... r...
 5... t... (... a... r... 5... r... 5... a... r... 5... m... a... r...)... 5...
 5a... l... a... r... m... t... t... t... r... t... fr... t...
 t... t... r... fr... t... m... /... r... (... I... a... m... b... t... r... /
 t... t... a... m... /... r...)... t... t... t... r... t... b... t...
 (... /... b... t... r... /... r... t... a... m...)... a... 5... t... r...
 m... t... t... r... 5... t... l... r... a... t... t... t... a... r... 5...

... a... r... (H2) ... 5... r... a... t... t... 5... a... r... 5
 ... a... r... (H3) ...
Better versus worse: Different framings
 I a... 55... t... t... r... fr... t... f... t... t... b... 5... f... f... r... t...
 t... r... ,... t... r... a... t... r... 5... f... f... r... b... t...
 t... r... -... b... t... r... r... r... I... t... t... t...
 15... l... k... t... l... r... a... t... r... t... :... 15... t...
 5... f... f... r... b... t... b... t... r... a... 5... r... a... l...
 5... 5a... l... a... t... t... ?
 5... f... f... r... b... t... b... t... r... a... 5... r...
 f... t... f... m... f... a... m... f... f... t... (r... k... & a... m...
 1981) ... a... m... b... t... f... a... m... . A... m... b... t... f... a... m...
 m... t... r... a... 5... t... r... a... m... b... t... f... a... m...
 b... m... r... a... t... t... r... 5... t... t... r... a... t...
 f... a... m... a... 5... t... r... l... t... a... a... t... t... 5... 5a... l...
 r... fr... fr... t... b... t... r... t... t... (... , 5... r... &
 @... t... 1998). A... 5... 5a... l... f... t... a... a... a... t... a... -
 5... m... a... l... k... r... 5... b... t... b... t... t... a... 5...
 a... l... f... a... m... b... t... 15... f... b... t... b... t... a... t...
 fr... t... r... a... t... l... -... r... a... r... r... t... a... r... t...
 a... t... t... t... b... l... b... 5... t... m... (B... m... r... B... t...
 a... k... F... k... a... r... & ... 2001), a... 5... t... 15...
 a... r... f... a... m... t... 5... 5a... l... t... a... 5... t...
 (... l... t... @... & a... , 1998; a... , 1984;
 & ... , 2001). r... fr... l... 15... f... m... r...
 ... a... t... fr... t... a... 5a... l... a... a... 15... m... t... t...
 t... r... a... t... fr... t... t... a... t... t... fr... t...
 r... fr... a... a... 5... r... l... 5... 5a... l...
 a... a... r... m... t... t... r... fr... t... r... t...
 a... l... m... a... r... fr... t... 15... a... b... r... a... t...
 ... 5... 5a... l... a... t... t... t... f... fr... , a... m... t... t...
 I... l... , a... m... t... t... 5... 5a... l... a... a...
 r... m... t... t... t... r... r... r... t... a... t...
 f... a... m... (... r...)... a... 5... t... a... t... f... a... m...
 15... t... r... a... t... t... m... r... t... a... t...
 f... a... m... (... b... t... r...)... r... fr... t... t... t... a... t...
 5... f... f... r... t... f... a... m... 15... a... f... f... t... 5... 5a... l... a... t... t...
 (... f... a... m... f... f... t...):
 H4: I... 5... a... r... 5... m... a... r... m... a... r... 5... t... t...
 ... r... t... a... m... /... 5... 5a... l...
 a... t... t... 15... b... l... r... t... t... r... l... a... m... /
 ... a... r... b... t... r... t... a... m... /... r...
 A55... t... a... l... , a... m... t... a... a... 5... 5a... l... m... t... a...
 t... t... r... t... fr... t... f... t... a... a... m... a... t... r...
 a... H... t... 3... r... 5... r... l...
Which effect is stronger?
 B... 5... r... a... t... , f... t... a... m... a... r... fr...
 m... t... r... 5... 5... f... f... r... t... a... l... t... b... l...

5ffr ... t ... r ... 15 la, 5 t ... r 5ffr ... t
l f a, t p, t ... H r ... a, p, ll
a, t 5ffr ... a, t p, t ... r fr t ff t
r t fa, m, ff t?
a, f, m, r a, b ... t p, t ... ar 5
m ar ... , t r fr t ff p, 5 fa, m, ff t ...

After a 5, art a, t r a, k 5 t . . . t .
 5 r b . . . 5 ff r . . . b t . . . t . . . 5 5 a, l . . .
 fr . . . r a, l k ll, Ha, . . . (b tr / r) ta, . . .
 ar . . . (. . . b tr / r) ta, . . . Ha, . . . (t t r t . . .
 5 t . . .) . . .
 . . . t . . . b t . . . - . . . t a, l : A . . . , a, t 5
 t . . . r tr r a, l k ll . . . t ar ? (1 = ver
 unsatis ed, 7 = ver satis ed, 5 . . . a, t . . . r a, l a, -
 t . . . f r . . . tr r a, l k ll ? (1 = ver bad,
 7 = ver good). . . a, ra, . . . r f t t . . . t . . .
 a, . . . 5 a, t . . . 5 . . . 5 t a r a, b l (r = .87). F a, ll,
 art a, t . . . l t 5 5 . . . na, . . . fr, a, t . . . (. . .
 . . . 5 r a, a, 5 r a, 5) . . .

Results

t - tr art a, t a, l 5 t . . . a, t . . . k
 a, 5 r . . . l 5 5, . . . 105 ar, a, t r . . . l 5 5
 r a, a, l (37 . . . , 66 . . . , 2 5 5 tr r t r
 . . . 5 r, M, = 21.41 ar, SD = 1.85). A 2 (a, l
 . . . ar 5 . . . ar . . .) x 2 (b t f t t . . . : f r -
 . . . t r) b . . . - r . . . 5 . . . a, a, l . . . f a r a,
 (A, A) a, . . . 5 t 5 . . . art a, t a, t a, t . . .
 5 . . . na, . . . a r a, b l r . . . t . . . a, ll r r a, t 5
 t . . . a, l a, a, l . . . ar r . . . ll r b a, . . . 5
 r . . . l 5 5 . . . t a, a, l . . .

Satisfaction.

ff t fr a, l . . . ar . . . 5 r . . . (F_{1,100} = 66.20,
 p < .001, η² = .40), . . . a, t a, t a, t . . . 5 -
 ar 5 . . . ar . . . (M = 4.80, SD = 1.15) a, . . . r ta,
 ta, t . . . ar 5 . . . ar . . . (M = 3.32, SD = .85).
 ff t fr b t 5 5 . . . tr a, . . . a, t t a, l . . . -
 a, . . . (F_{1,100} = .60, p = .439, η² = .006).
 tr . . . r a, ll a, . . . a, t t - a, . . . ta, t . . .
 t 5 (F_{1,100} = 1.72, p = .001, η² = .11) a, . . .
 Fr r 3. . . 5, t 5 t . . . l ff a, a, l t fr -
 t r a, a, l t . . . tra, t . . . ll 5 . . . a, t 5 ta, t
 . . . ar 5 . . . ar . . . art a, t . . . r a, t 5
 . . . t . . . b tr ta, . . . 5 t . . . (M = 3.56,
 SD = .74) ta, . . . t ta, . . . r ta, . . . 5 t
 (M = 3.05, SD = .91), F_{1,46} = 4.62, p = .037, η² = .09.
 H r . . . 5 . . . ar 5 . . . ar . . . a, t a, t . . .
 t I a, . . . b tr ta, . . . 5 t . . . (M = 5.28,
 SD = 1.18) a, . . . a, ll r r ta, . . . t . . .
 r . . . ta, . . . 5 t . . . (M = 4.47, SD = 1.02),
 F_{1,54} = 7.57, p = .008, η² = .12, . . . r t . . . H . . .
 la, 5 2 (. . . r fr t ff t), b t t . . . H . . . t . . . 4 (. . .
 fa, . . . ff t).

Discussion

t 5 l t t 5 . . . r . . . t . . . a, l . . . ar . . .
 a, b t . . . tr r a, l k ll . . . r . . . ll r . . . 5 . . . r
 a, . . . t . . . ta, . . . 5 ff r . . . t r 15 a, ff . . . 5 -
 5 a, l a, t a, t . . . tr . . . r, t r . . . ll 5 . . . a, 5
 . . . ar t . . . t . . . t . . . a, . . . a, . . . 5 b
 5 ff r . . . tr fr t . . . b t t . . . 5 ff r . . . tra, . . .
 . . . 5 2 a, . . . 5 t a, a, . . . r . . . tr fr t ff t (. . .
 H . . . t . . . la, 5 2) a, . . . 5 ff r . . . t a, l . . . ar . . .
 ar . . . - a, a, 5 . . . a, . . . t . . . Fr tr . . . r . . . a, . . . -
 r 5 . . . 5 5 a, ta, t . . . t r . . . fr . . . a, t a,
 t . . . 5 t . . . a r a, b l t t t H . . . t . . . 3 . . .

Study 2

Method

Participants and design. . . . 5 5 a, 5 . . . t - . . . t
 t 5 t f . . . k . . . r . . . t (7 l . . . , 89 . . . , 8
 5 5 . . . tr (. . .) - 338.6 (3 D . . .) - 338.7 (5 l f 3 72730 D (2) / - 1800

$t = \frac{-0.22}{0.38} = -0.58$ (F = 0.6)
 5000
 95% CI (-0.4748, -0.0197) (H = 3)

Discussion

r). t r r r t 5 t r -
 r , h a , 5 a , 5 5 t a , r t a r t a , t a -
 r a t l . f r a t t a r a , r r t
 r a t f t r r 16% r r a . ()
 b t r t a . 5 t) , r r t r a t f
 16% r r a , t r r (a r b t r t a .
 5 t) , r r t r a t f a t r r
 16% l r a , (r r a , 5 t) ,
 r r t r a t f , 16% l r a , a t r
 r (a r r r a , 5 t) .
 f a , a r a , a , 5 a , 5 t . f t
 f r 5 t a b , a , 5 a t r a r t a , t a ,
 a , 5 a , r r 5 , 5 t a t a , 5 a , 5 f f r -
 t a , 5 r t b t t a , r l t . F r a ,
 l , f a r t a , r 5 t r a r r l t a t
 r r a t f a t r r 16% r r a .
 a t f (b t r t a , 5 t) , t r -
 r 5 l a , t r a r t a t , 15 r l t
 a t r r t r a t f a t r r 16% l r
 a , a t f (r r a , 5 t) .
 a r t a t u l t 5 t , a t k :
 r r a t f a t r r % , r /
 l r a , r r r a t f , %
 r l r a , a t r r , a , t t
 t t 5 t t r a , 5 t .
 r 5 a r t a t a t a t (A , a t 5 t
 r r f r a t k 1 5 t a , 5 a t
 r a , a t f r r f r a t k 1 5
 t ?) b t t a l a , r a ,
 5 1 . a , r r f t t a ,
 5 , t 5 5 t a r a b l (r = .78) .
 t , a , r 5 a r t a t 5 a , f r -
 a) . F a l l , t r 5 f f 5 a , 5 t a , k 5 .

Results

F a r t a t r l 5 5 f t a , a l ,
 b a , t a l 5 t a t k . A a -
 , 101 a r t a t r l 5 5 r a , a l
 (35 , 66 , M , = 21.97 , S D = 3.17) .
 A 2 (a l a r 5 r t : a r 5 a r
 r , 5 a r 5 a r) x 2 (b t : f r
 t r) A A a , 5 1 5 , 5 a , a r a b l
 r i , a , l l r a t 5 t t 5 5 t a r -
 a b l . r f r , t r t l 5 5 t f l l ,
 a , a l .

Satisfaction.

f , 5 a , a , t a , f f t f r
 a l a r 5 t , F 1,97 = 6.99 , p = .01 ,
 η² = .067 , r r t r a t a r t a t a 5 r a t -
 t . 5 a r 5 a r (M = 4.25 , S D = 1.20)
 a , a r 5 a r (M = 3.66 , S D = 1.14) .
 f f t f r b t 5 5 t r a , a , ,
 F 1,97 = 1.49 , p = .226 , η² = .015 .

r a , l , t r , l t 5 a , a , t
 t - a , t a t , F 1,97 = 4.40 , p = .043 , η² = .07 a ,
 F r 7 l l r a t . F r t r a , a l r a l 5 a t
 a r 5 a r , a r t a t r r a t 5
 t b t r t a , 5 t (M = 3.76 ,
 S D = 1.05) a , t a r r a , 5 -
 t (M = 3.56 , S D = 1.23) , b t t 5 f f r 5 5 t
 r a , a , , F 1,48 = 3.83 , p = .54 , η² = .008 ,
 a l 5 t r t H . t 1 . H r r
 5 a r 5 a r , 5 5 a l a , 5 r a t a -
 t t a r b t r t a , 5 t
 (M = 4.64 , S D = 1.15) a t r a ,
 5 t (M = 3.88 , S D = 1.14) , F 1,49 = 5.53 ,
 p = .023 , η² = .101 , a , t t t
 H . t 2 .

Discussion

t 5 3 a , 5 t 5 a , a t t a t , a -
 r , a r t a t a , a l a t a f r t r
 t r a r r l t , r r a , a , 5
 a , a t . r l t a r t l r r t 5 t r f r t f f t
 (H t 2) f t r r t f t f r a t
 r r .
 H r , a r t a t a t a t 5 5 t 5 f f r
 b t t t r a r 5 a r ,
 a l 5 t r H . t 1 , a , 5 a , a l
 t t t 5 , t 5 a , 5 2 . b
 t b a , 5 3 a , 5 t 5 f t r b
 t f t f r a t r r , 5 f f r f t
 r t f t r r t 5 l a , 5 2 . r
 t 5 a , 5 a t 5 a t r r
 a r f r a t , l a r r f r t t
 (r & t , 1985 ; r & G r , 1970) . F r -
 t r r , l a r 5 a r a k r

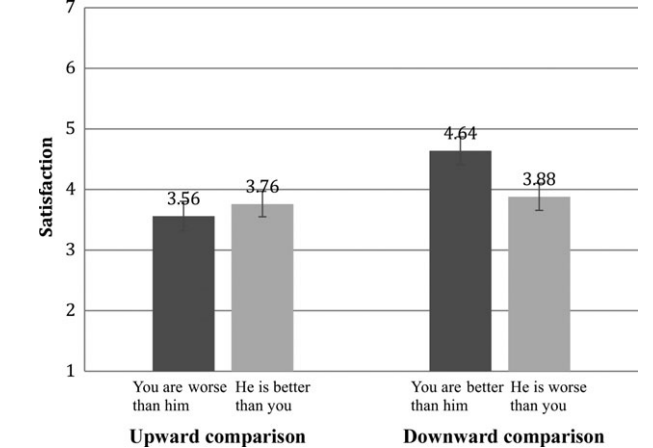


Figure 7 The results of satisfaction in four conditions in Study 3. Bars indicate standard errors.

ffrtt r t t r F- t (D. r, 1984; & arkr, 1984; & Gr, 1970). rfr, l a, t r t r a t f l t, ar 5 ar (r r t t r 5 a t t t t t l), r 5 r t F- r t t. t 5 4 a, 5, t 5 t a, a, t r t t f t r t f t f r t r r. Al, a, 5 t a, r a r a t, t a t t t t t t t r l. r r a l l f t t 5 t l 5 r r r - 5, t 5 C, Alt, t C t t f r ar b t r t a, 5 f f r t f t E, l t t r t r f t C t t l k t a, a, a, ar - t t r (r, a r t t r t a, a, 5 t r f r t, a, 5 t a t t r f r t f f t a l E, l.

Study 4

Method

Participants and design.

t a, t (78, 81, M, = 32.96, SD = 9.86) r r t 5 t r t t l r a, a, a, l r k l t 5 t r t t t t t t a, f r a, l a, t. t 5 a, a, a, b t r, 5 t t t a, 5 ar, r, 5 ar 5 ar, a, 5 b t (F r t t r), r l t 5 f r 5 t : ar r t a, b t r t a, ar b t r t a, a, 5 b t r t a.

Procedure and materials.

I a, ar, r a, t 5 l a, 5 2, a r t a, t r a, k 5 t a, a, a, l ar ar. I t ar, t a r t a, a, 5 a, a, l r f r a, a, a, l a r t a, t t b t r t a, a, 5 t, 15 a, 5 a, 5 a, b t r a, a, t t a, a, t t r b t r t a, a, r t l. A r r a, 5, t ar, a r t a, t r a, k 5 t t t t a, t t a, t t a, t t a, r a, t 5 2, G, a, a, l a, = .85), t 5 t a r a b l (t a t t t t a, t a, a, t 5 3, r = .87), t t l a r a b l (a r t a, t 5 r f f t t t a, t a r a, a, 5 t r a, f a, a, l

rfr a, a, a, a, l t r r a l l f). F a l l, l t 5 t r 5 a, a, a, a, b l.

Results

a r t a, t t, 15 t a, t k, t r r 158 f f t a r t a, t l f t (78, 80, M, = 33.01 ar, SD = 9.87). A 2 (a, l ar, 5 r t : ar 5 ar, r, 5 ar 5 ar -) x 2 (b t t t t : F r r t r) A, A a, 5 t 5. t l a, a, b l a, 5 5 a, a, a, r a b l a, 5 5 f f r b t r a, 5 t r f r r l 5 5 t a, a, l t r r t t r l 5 5 t f l l a, a, l 5 5 t a, t a, f t r t t.

Satisfaction.

f t 5 a, a, t f f t f r a, l ar, 5 t, F_{1,154} = 248.59, p < .001, η² = .62, 5 a, t a r t a, t a, 5, r a t t, t 5 ar 5 ar (M = 5.77, SD = 1.21) t a, a, 5 ar (M = 2.64, SD = 1.33), A l, a, a, f f t r b t r, 5, F_{1,154} = 4.00, p = .047, η² = .025. r a, l t r t 5 a, a, t t - a, t a, t, F_{1,154} = 4.94, p = .028, η² = .031. A F r t 8, ar 5 ar, t a t - a, t f a r t a, t t b t r t a, t, 5 t (M = 2.66, SD = 1.13) a, 5 ar r t a, 5 t (M = 2.62, SD = 1.53) a, 5 5 f f r, F_{1,76} = .02, p = .89. A t 5 3, t t t, 15 t r t H, 1. H r, 5 ar 5 ar - , a r t a, t a, 5 r a t t a, t t a r b t r t a, 5 t (M = 6.19, SD = 1.01) a, t r t a, 5 t (M = 5.35, SD = 1.27), F_{1,78} = 10.68, p = .002, η² = .12, a, a, r t 5 H, t 2.

Motivation to process the information (mediation).

t t 5 t a, t r l f t a, t t 5 - ar 5 ar a r t a, t a, a, a, l l r r a, l 5 t t a, t a, 5 t r f r a, a, l 5 5 a, a, t l a r a b l t f l l a, a, l A F r t 9, t b t (5 5 a, 0 = the self, 5 1 = other) 15 r 5 t t a, t, β = -.24, t = -2.15, p = .035. F r t r, f 5 t a, t a, t l r a, l 5 t a t t, β = .40, t = 3.80, p < .001. r f r, t a, 5 r 5 5 t f f t a, (-.24)(.40) = -.10. t 5 t a, f t 5 t f f t a, b t r, r 5 r. A 5000 t a, l b t t a, 5 a, ar 5 5 t f f t a, -.19, a, 5 t 95% 5 t r a, l l a, 5 f - .5106, -.0288. t 5 t f f t a, a t t a l l a, t (r t, H, t b).

t b t f r k l 5 r t r ar
 t r t t H l 5 r b t 5 ff r t r 5 r
 f t b t t b ar 5 (r k , 1977) , 5 5 ff r -
 fa , (r k & a , , 1981) . Alt t
 fa , ff t a , 5 l a b l 5 ff t , b , 5 t
 r t t 5 ar 5 ar , r t 5 f , 5 t a , t
 5 r t f ar a , ar ff t (. a t
 a , a l l 5 r fr t ff t t a , r) a , 5 a , r a , tr
 ar t a , t fa , ff t . r a , b t a , r -
 b l r a , t a , t : r t , t 5 a b t a , a , r
 t r a , 5 ar t 5 t a t t b t t t a t
 a l t a , t (a , a , k r , 1991 ; r r & -
 5 , 2001) . a t a , t a , l f t b t
 15 a , t 5 5 a , l a t t , a , k b l
 f r t r 5 r f t b t (. l r r
) a , r t a , t fa , (. b t r r r) .
 5 , b a , ar , 5 t r a , 5 a , t f
 l f t r t t 5 ff r t r 5 r f t b t l l b
 ar l r a , 5 r fr b r 5 ar l r t a , t
 fa , ar l r a , t f t r f r t ff t 15
 r b l r r t fa , ff t .
 Al , t r t r ar 5 l t a r ,
 t 5 f t ff t f 5 ff r t a a t a t

Discussion

t 5 4 a , r l a t 5 t r t t f t 5 3 r a l ,
 t a t r fr t ff t l t 5 5 ar 5
 ar f t r t f t fr a , t r -
 r Fr t r r , t 5 r 5 t a t t ff t a ,
 t l f 5 C , b t E l a , l l .

General discussion

r t t f t f r t 5 5 t a , t 5 ff r t
 r f t a , ar fr a , t 15
 a ff t 5 5 a l ' a t a , t a f r t k t
 ar r t t a , l l , 5 ar 5 ar ,
 t r a , / ar b t r t a , u , a , k 5
 5 a l f l r a t 5 a , l r
 t a , / ' (t 5 1-4) ; l ar 5 ar
 l b t t t r t a , r t a ,
 u , r l a , t 5 t a , t b t t t r
 b t r t a , (t 5 l a , 5 2) . Al , t
 r t t r t 5 t a , t r l f t a t t r
 t a l ar fr t (t 5 2 a , 5 4)

t ff t f r t l r t (a, k ff, 1987; a, -
 a, kr, 1987). ar r a, l t 5 5 t p tr
 a, t a, t a, l ar (J. Br k & Gbb
 2007; Ir & Va, k, 1992; 5, 1989).
 t 5 f, 5 a, a, t 5 ffr r r r a,
 a, ff t a, l ar t u, la, 5 t a,
 r ar ar a, f a, l ar t a,
 l t 5 la, 5 2a, t fr a, t r r (...
 I'), t 5 ffr t 5 b t ar 5, 5 5 -
 ar 5 ar H r t 5 3a, 5 4a, t
 fr a, t r t (...), ar t a, t a, t p, t
 l 5 ffr 5 5 ar 5 ar a, b t t
 r ar 5 ar r a, b ar t a, t 5 f
 fr t r t a, t 5 5a, l ar t fr a, t
 r t, t a, t, tr r a, l u,
 ar fr a, t, l ar r r r t t
 (r & 1985; r & Gr, 1970).
 k a, t, ar 5 ar a, a, a, l u,
 t a, 5 l r f-a, l a, t (D, r, 1984; r &
 ar kr, 1984; r & Gr, 1970; r, r, &
 r, 1988). r fr, ar 5 ar
 a, ll a, t fr a, t r 5 b t r -
 l a, r t r a, t f l r
 a, ffr t t r t t t r t r fr, ar -
 t a, t 5 5 tr r t 5 ffr t l l f a, t
 ar 5 ar r r ar a, r t
 a, t r r ar t t 5 f, 5 a, t t a -
 t f t r fr t (tr / r a, k 5 a, b r
 b l t a, a,) 15 a, 5 5a, l a, l -
 a, t a, b t f (l, Al k, & t k, r, 2015).
 E, a, ll ar 5 ar 5 5a, l a, l a, t 5
 t l r a, b l t r fr t a,
 a, b a, a, a, b l a, a, t
 b t r fr t ff t (... t t f t r fr t)
 a, 5 t r fr t a, t r t 5 l a, 5 5 t r f
 r t a, t a, fr t a, k f ff t, ar 5
 ar r r, a, f r 5
 b t (r r r') a, 5 l (r r r') t
 a, a, t r a, l t ar fr a,
 t (J. H 5 et al., 2002; H r, 1995). B a,
 t t r ar 5 ffr t t u 5
 r f a, 5 P, 15 b a, 5 5.
 r r t 5 r f t t 5 ar f r a, l r
 a, r a, t t t ar fr
 a, r a, t t t ar fr
 Fr t l r a, t t r a, l
 ar (t 5 ar 5 ar), t r
 la, b ttr a, t r t r t f
) r ar b ttr a, t r t f
 f t 5 r) 15 5 5a, l r
 r r t a, 5 ar a, t p, t Fr a, 5 5a, l
 a, t l a, t 5 t a, l ar (l
 ar 5 ar) a, a, t b, a, k
 b ttr a, r b ttr a, b, a, k

a, 5 5a, l f l r r a, b l a, 5 l f r t 5.
 H r r a, 5, f a, t t a, a, 5 a, t a,
 t a, k r ffr t, 15, r -
 ar t a, t a, k f l l a, t
 5, 5 t, r k ar 5 r.
 t t 5 t r r a, 5 r r f t ar -
 r t 5 ffr t t 5 b t 5 5 t ar
 t Fr r ar 15 lr t r t a,
 fr a, t r 5 b f (... r t r I')
 a, 5 t r (... 5 r) 15 a, 5 ffr -
 u t r a, t 5 r r t r P (a, l l &
 a, kr, 2007; ar a, & ar, 1999), 5 ffr
 t t 5 ffr t 5 a, tr.

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r ar a, a, a, f, 5 5 b t G a, l r -
 a, (71172024 & 71472005) a, 5 r a,
 (01224002) f a, t a, a, a, l F, s, f
 C a, N N

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9.5(7.7(2(B, .9() r k,)-45 a, t)-8. r)F.B a,

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