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[illegible] (1/f [illegible] f), [illegible] fi [illegible] “ [illegible] ” [illegible] / [illegible] (1999; [illegible] 2002; [illegible] 2004; [illegible] 2005; [illegible] 2006; [illegible] 2008, 2009), [illegible] / [illegible] (2005; [illegible] 2007), [illegible] (2004; [illegible] 2007; [illegible] 2011), [illegible] (2001; [illegible] 2004; [illegible] 2007; [illegible] 2007; [illegible] 2009; [illegible] 2010; [illegible] 2011), [illegible] (1954; fi [illegible] 1979; [illegible] 1996; [illegible] 2000; [illegible] 2003; [illegible] 2005). [illegible] (2004; [illegible] 2007; [illegible] 2011), [illegible] (1981, 1992), [illegible] (1) [illegible] (2) [illegible] (3) [illegible] (2000), fi [illegible] (1998), [illegible] 2007; [illegible] 2009; [illegible] 2009; [illegible] 2009). [illegible] fl [illegible] (2009) [illegible] 2002; [illegible] 2006; [illegible] 2008; [illegible] 2008; [illegible] 2009). [illegible] fi [illegible]

2. Materials and methods

2.1. Participants

[illegible] (1996). [illegible] (1). [illegible] 254 69 / [illegible] fi [illegible] 611 111 / [illegible] (2003). [illegible] 6 / [illegible] 18 [illegible] 59). [illegible] fi [illegible] 12 [illegible] 22 [illegible] 22 [illegible]

Table 1

[illegible]	[illegible]	[illegible]
[illegible]	9.6422.21512 7( )-7 5.4(557)-292.4(7( )-7 226( )	9..50092.6853 1-309.

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[illegible] (-) [illegible] . [illegible] 1 [illegible] 125, 256, 512, 1024, [illegible] 2048 . [illegible] ( ) [illegible] , [illegible] .

2.2. Equipment and materials

[illegible] . [illegible] , [illegible] ([illegible] 824, [illegible] , [illegible]), [illegible] ([illegible] 450 [illegible] 97) [illegible] ([illegible] 200) [illegible] ([illegible]) [illegible] 60 [illegible] . [illegible] ([illegible]): −8, −4, 0 [illegible] 4 [illegible] .

[illegible] , [illegible] (1997). [illegible] , [illegible] “ [illegible] ” ([illegible]). [illegible] 12 [illegible] ([illegible] 12 [illegible]) [illegible] . [illegible] . (2007).

[illegible] ([illegible] , [illegible]). [illegible] , [illegible] ([illegible]) [illegible] , [illegible] 10 [illegible] ([illegible] ., 2004). [illegible] ([illegible] ., 2007). [illegible] 47- [illegible] ([illegible]) [illegible] ([illegible]) ([illegible] ., 2007).

2.3. Procedures

[illegible] ([illegible]) [illegible] ([illegible] ., 2004), [illegible] ([illegible]) ([illegible] ., 2005; [illegible] , 2006), [illegible] fi [illegible] : (1) [illegible] ([illegible] , [illegible]), (2) [illegible] ([illegible] , [illegible]), [illegible] (3) [illegible] (−8, −4, 0 [illegible] 4 [illegible]). [illegible] , [illegible] 16 [illegible] 12 [illegible] ([illegible] 12 [illegible]) [illegible] . [illegible] , [illegible] ([illegible]) [illegible] , [illegible] . [illegible] / [illegible]

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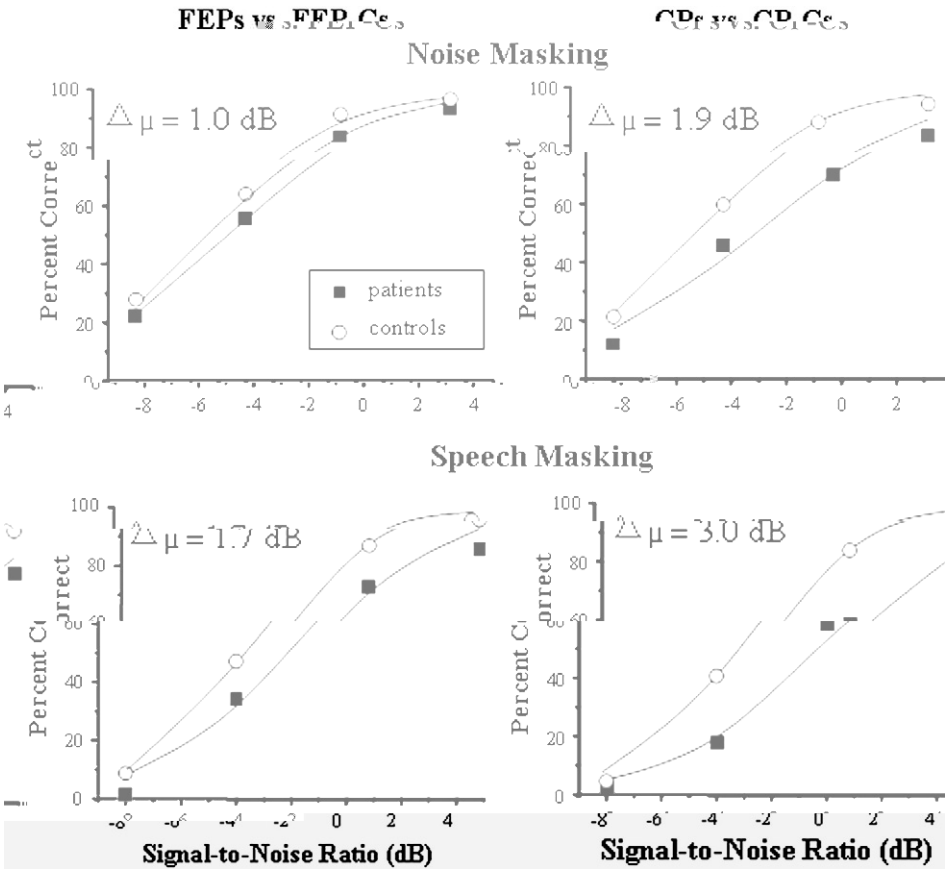

Fig. 1. [illegible] μ (Δμ) [illegible]

[illegible] 1. [illegible] 4 ([illegible]) 2 ([illegible]) [illegible] μ [illegible] fi [illegible] ($_{3,128}$ = 26.366, p<0.01), [illegible] fi [illegible] ($_{1,128}$ = 46.060, p<0.01), [illegible] fi [illegible] ($_{3,128}$ = 0.549, p = 0.650). [illegible]

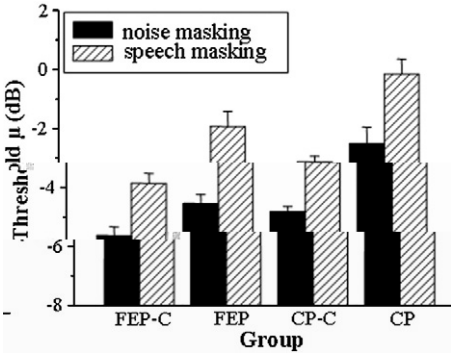

Fig. 2. [illegible] (μ) [illegible] fi [illegible] (p<0.01), [illegible] fi [illegible] (p<0.01), [illegible] fi [illegible] (p<0.01), [illegible] fi [illegible] (p = 0.084).

3.2. Recognition of the prime keywords under the priming condition

[illegible] 3 [illegible] (fi [illegible]) [illegible] -fi [illegible] ([illegible]) [illegible] ([illegible]). [illegible] fi [illegible] 2 ([illegible]) 2 ([illegible]) 4 ([illegible]) [illegible] fi [illegible] ($_{1,176}$ = 7.875, p = 0.006). [illegible] fi [illegible] (p>0.800). [illegible] 2 ([illegible]) 4 ([illegible]) [illegible]

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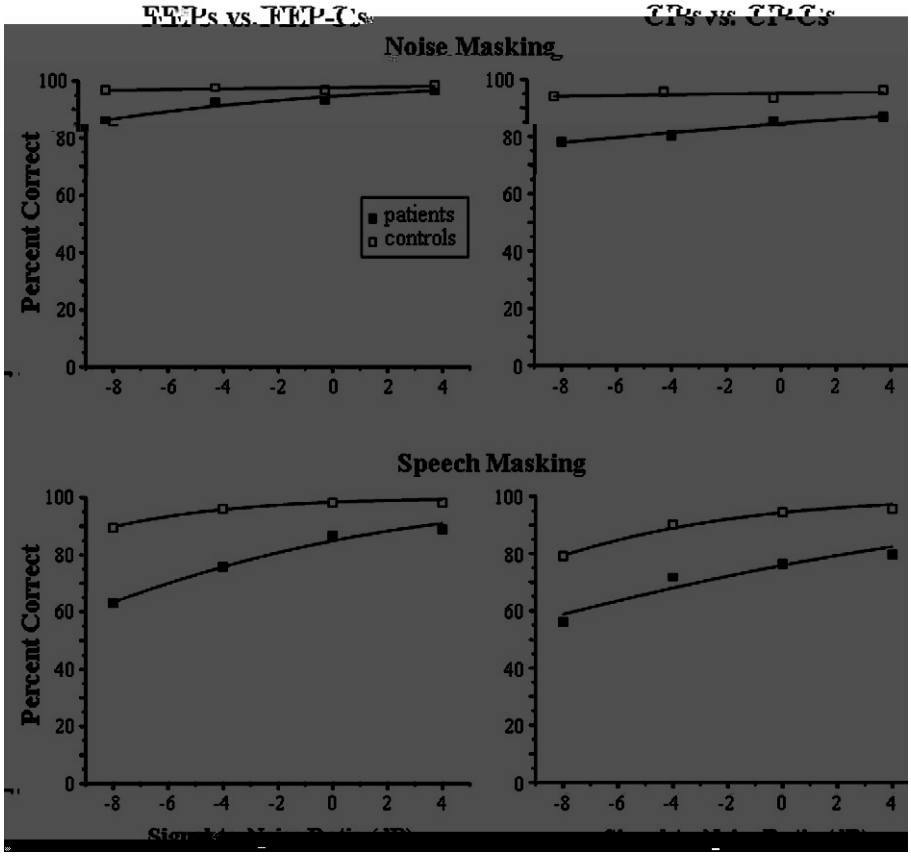

Fig. 3. [illegible] fi [illegible] fi [illegible] (fi [illegible]) [illegible] ([illegible]) [illegible] ([illegible]) [illegible] ([illegible]). [illegible] 2.

[illegible] fi [illegible] ($_{3,88}=1.961$, $p=0.126$), [illegible] fi [illegible] ($_{1,88}=7.602$, $p=0.001$), [illegible] fi [illegible] ($_{3,88}=1.027$, $p=0.385$). [illegible] fi [illegible] ($_{3,88}=4.590$, $p=0.005$), [illegible] fi [illegible] ($_{3,88}=20.854$, $p<0.001$), [illegible] fi [illegible] ($_{3,88}=1.143$, $p=0.336$). [illegible] (1) [illegible] (2) [illegible] fi [illegible] " [illegible] ([illegible] 1). [illegible] fi [illegible] 2 ([illegible]) 2 ([illegible]) 4 ([illegible]) [illegible] fi [illegible] ($_{3,\ 335}=4.982$, $p=0.002$) [illegible] ($_{1,\ 335}=4.878$, $p=0.023$). [illegible] fi [illegible] ($p>0.3$). [illegible] 2 ([illegible]) 4 ([illegible]) [illegible] fi [illegible] ($_{3,\ 168}=1.743$, $p=0.160$), [illegible] fi [illegible] ($_{1,\ 168}=47.891$, $p=0.001$), [illegible] fi [illegible] ($_{3,\ 168}=1.219$, $p=0.304$). [illegible] fi [illegible] ($_{3,\ 168}=12.617$, $p<0.001$), [illegible] fi [illegible] ($_{3,\ 168}=56.463$, $p<0.001$), [illegible] ($_{3,\ 168}=0.409$, $p=0.746$). [illegible] (1) [illegible] (2) [illegible] 3 [illegible] ▼ [illegible] " [illegible] " [illegible] ([illegible] 1).

3.3. Priming effect on recognition of the last (third) keyword

[illegible] 4 [illegible] 5 [illegible] -fi [illegible] ([illegible]) [illegible] ([illegible]) [illegible] ([illegible]). [illegible] 6 [illegible] 2 ([illegible]) 4 ([illegible]) 2 ([illegible]) [illegible] μ [illegible] fi [illegible] ($_{3,\ 256}=39.564$, $p<0.001$), [illegible] fi [illegible] ($_{1,\ 256}=59.588$, $p<0.001$), [illegible] fi [illegible] ($_{1,\ 256}=20.337$, $p<0.001$). [illegible] fi [illegible] ([illegible] , $p>0.100$). [illegible]

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- fi ($p=0.003$),
- fi ($p<0.001$),
fi ($p<0.001$),
- fi ($p=0.235$).

4. Discussion

4.1. Recognition of target-speech keywords under the no-priming condition

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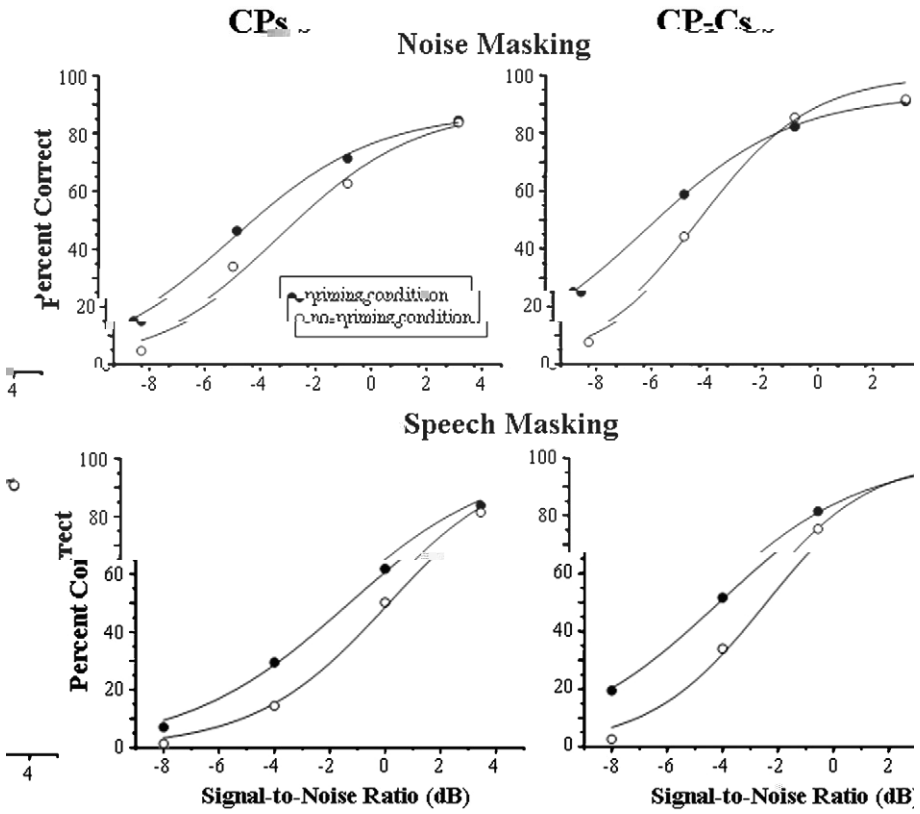

Fig. 5. -fi ( ) ( ), ( ) ( ). . 2.

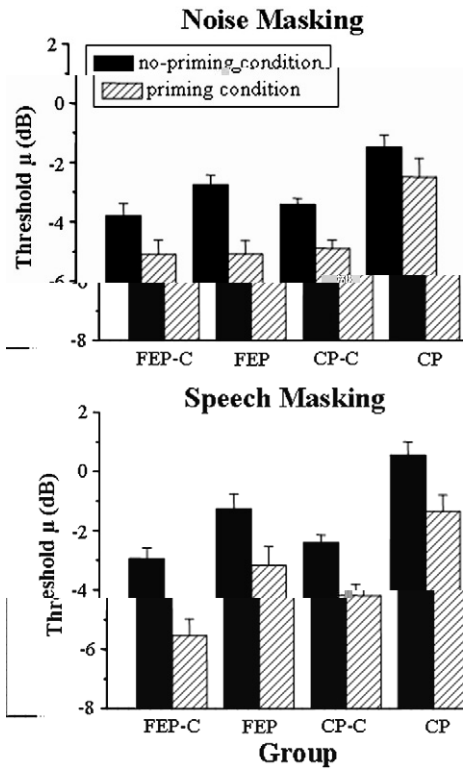

Fig. 6. (μ) . 2.

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[illegible]

4.3. Using the prime to unmask the last keyword in target speech

[illegible]

5. Conclusions

[illegible]

Role of funding source

[illegible] "973" [illegible] (2011 [illegible] 707805), [illegible] (2007 [illegible] 17 04), [illegible] (20090001110050), [illegible] "985" [illegible]

Contributors

[illegible]

Conflict of interests

[illegible]

Acknowledgments

[illegible] "973" [illegible] (2011 [illegible] 707805), [illegible] (2007 [illegible] 17 04), [illegible] (20090001110050), [illegible] "985" [illegible]

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[illegible], 2007. [illegible] 35, 85–103.

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