

卢楠 王毅杰

内容提要

2014

“ ” “ ” “ ”

## 一、研究背景

[1][2][3]

[4]

“ ”

---

[1]

“ ”

[2]

[2]

[3]

“

”

[1]

fixed Multilevel Model [2] 2 4 Cross-Classified  
REML [3]

BIC [4] BIC  
2. 2014 "  
"  
PPS  
[5] 15-59  
1999 1997  
2000 15996  
55 55  
12580  
3. 1  
[6] " " " 7  
7-35  
" " " [7] 1 10

[1] : , 2012 10

[2]Rabe- Hesketh, S. and Skrondal, A. Multilevel and Longitudinal Modeling Using Stata, Stata Press, 2012:433- 441.

[3] : , 2008 , 27- 28

[4] : , 2012 , 127- 128

[5] 2014

[6] " " " "

" " " "

"

[7] " 10

1

"

1-10

2

1

2

3

0

4

1

0

5

2

3 6

7

8

9

60

70 80 90 4 10

1

表1 变量描述(N=12580)

	/			
	23.4	6.2		41.4%
	38.7	10.0		58.6%
( )	3.9	4.0	60	31.3%
	5.6	1.7	70	31.3%
	5.0	1.7	80	29.4%
	39.0%	----	90	7.90%
	61.0%	----		16.3%
	16.7%	----		16.3%
	83.3%	----		31.1%
	18.2%	----		36.4%
	31.2%	----		11.7%
	31.8%	----		13.9%
	18.8%	----		12.1%
	9.0%	----		13.1%
	33.4%	----		12.3%
	16.8%	----		11.6%
	40.8%	----		13.3%
				12.1%

四、研究发现





## 五、结 论

80 90

60 70

60 70