



table

## 4.03B MLOGIT

### 過程

```
. use ../transfer/bothall,clear

. hugocmd expand,hbody("default=資料處理,產生tmp/target.ds")
> 資料處理,產生tmp/target.ds
```

### 跑mlogit 1237

```
. use ../tmp/targetds,clear

.
. foreach period in y2018 y2019{
2. hugocmd expand,hbody("default=mlogit`period' , 利用tmp/target.ds")
3.
. eststo clear
4. eststo model1 : mlogit unplan lace if `period'==1,base(3)
5. //mlogit, rrr
. //eststo mlogit
.
. eststo model2: mlogit unplan hindays i.hintype1 wgtcc ce if
`period'==1,base(3)
6.
. eststo model3: mlogit unplan hindays i.hintype1 wgtcc ce i.sex age age10
i.job1 hdiag_num if `period'==1,base(3)
7.
. eststo model7: mlogit unplan hindays age age10 ce360 i.job1 if
`period'==1,base(3)
8. genfilename "${outposix}_mlogit", pre("../report/") post(".html")
autoinc
9.
.
.
. esttab using "`r(fn)'", cells(b(fmt(3) star) &se(fmt(3) par) &ci(fmt(3)
par)) mtitles stats(N aic bic r2_p chi2 p) r(level) pr2 replace compress
nogap star( * 0.10 ** 0.05 *** 0.01 ) title("mlogit") unstack label
nolines nonumbers onecell
10. hugocmd expand,end
```

```
11.  
. }  
> mlogity2018 , 利用tmp/target.ds  
  
> mlogity2019 , 利用tmp/target.ds
```

mlogit

[html link](#)

	model1			model2		
	1	2	3	1	2	3
	b/se/ci95	b/se/ci95	b/se/ci95	b/se/ci95	b/se/ci95	b/s
lace	0.238 <sup>***</sup> (0.037) [0.165,0.311]	0.253 <sup>***</sup> (0.047) [0.162,0.345]	0.000 (.) [0.000,0.000]			
住院天數				0.020 <sup>***</sup> (0.006) [0.008,0.032]	0.026 <sup>***</sup> (0.007) [0.012,0.039]	0.0 (.) [0.0
門診住院				0.000 (.) [0.000,0.000]	0.000 (.) [0.000,0.000]	0.0 (.) [0.0
急診住院				0.172 (0.202) [-0.223,0.567]	0.406 (0.271) [-0.124,0.937]	0.0 (.) [0.0
共病				0.209 <sup>**</sup> (0.100) [0.013,0.406]	0.255 <sup>**</sup> (0.117) [0.027,0.484]	0.0 (.) [0.0
前6個月 急診次數				0.246 <sup>***</sup> (0.040) [0.168,0.325]	0.280 <sup>***</sup> (0.045) [0.192,0.369]	0.0 (.) [0.0
女						
男						
年齡						

age10						
非重大傷病						
重大傷病						
張數						
前年急診次數						
Constant	-5.145*** (0.303) [-5.739,-4.550]	-5.745*** (0.386) [-6.502,-4.989]	0.000 (.) [0.000,0.000]	-3.988*** (0.186) [-4.353,-3.623]	-4.760*** (0.253) [-5.256,-4.264]	0.0 (.) [0.0,0.0]
N	4346.000			4346.000		
aic	1935.647			1933.284		
bic	1961.155			1997.055		
r2_p	0.035			0.042		
chi2	70.117			84.479		
p	0.000			0.000		

[html link](#)

mlogit							
	model1			model2			model3
	1	2	3	1	2	3	1
	b/se/ci95	b/se/ci95	b/se/ci95	b/se/ci95	b/se/ci95	b/se/ci95	b/se/ci95
lace	0.241***	0.225***	0.000				

	(0.037) [0.168,0.313]	(0.048) [0.132,0.318]	(.) [0.000,0.000]				
住院天數				0.026 <sup>***</sup> (0.005) [0.017,0.036]	0.026 <sup>***</sup> (0.006) [0.015,0.037]	0.000 (.) [0.000,0.000]	0.025 <sup>**</sup> (0.005) [0.015,0
門診住院				0.000 (.) [0.000,0.000]	0.000 (.) [0.000,0.000]	0.000 (.) [0.000,0.000]	0.000 (.) [0.000,0
急診住院				0.310 (0.210) [-0.101,0.721]	-0.333 (0.249) [-0.822,0.155]	0.000 (.) [0.000,0.000]	0.550 <sup>**</sup> (0.223) [0.112,0.
共病				-0.041 (0.166) [-0.366,0.283]	0.151 (0.138) [-0.119,0.422]	0.000 (.) [0.000,0.000]	-0.146 (0.185) [-0.508,
前6個月 急診次數				0.276 <sup>***</sup> (0.049) [0.181,0.371]	0.367 <sup>***</sup> (0.054) [0.261,0.473]	0.000 (.) [0.000,0.000]	0.258 <sup>**</sup> (0.049) [0.161,0.
女							0.000 (.) [0.000,0
男							0.040 (0.183) [-0.318,
年齡							-0.050 (0.069) [-0.186,
age10							0.031 (0.040) [-0.048,
非重大傷 病							0.000 (.) [0.000,0
重大傷病							0.836 <sup>**</sup> (0.312) [0.224,1.
張數							-0.155 <sup>*</sup> (0.080) [-0.312,
前年急診 次數							
Constant	-5.127 <sup>***</sup> (0.304) [-5.722,-4.532]	-5.536 <sup>***</sup> (0.388) [-6.297,-4.775]	0.000 (.) [0.000,0.000]	-4.067 <sup>***</sup> (0.194) [-4.447,-3.686]	-4.350 <sup>***</sup> (0.218) [-4.777,-3.923]	0.000 (.) [0.000,0.000]	-4.041 <sup>**</sup> (0.261) [-4.552,
N	4108.000			4108.000			4108.00

aic	1863.531			1848.580			1836.04
bic	1888.814			1911.787			1962.46
r2_p	0.034			0.048			0.065
chi2	64.915			91.866			124.397
p	0.000			0.000			0.000

## 跑mlogit 1237, RR

---

```
. use ../tmp/targetds,clear

.
. foreach period in y2018 y2019{
2. hugocmd expand,hbody("default=mlogit`period'RR , 利用tmp/target.ds")
3.
. eststo clear
4. mlogit unplan lace if `period'==1,base(3)
5. mlogit, rrr
6. eststo model1
7.
. mlogit unplan hindays i.hintype1 wgtcc ce if `period'==1,base(3)
8. mlogit, rrr
9. eststo model2
10.
.
. mlogit unplan hindays i.hintype1 wgtcc ce i.sex age age10 i.job1
hdiag_num if `period'==1,base(3)
11. mlogit, rrr
12. eststo model3
13.
.
. mlogit unplan hindays age age10 ce360 i.job1 if `period'==1,base(3)
14. mlogit, rrr
15. eststo model7
16.
. genfilename "${outposix}_mlogit", pre("../report/") post(".html")
autoinc
17.
.
. esttab using "`r(fn)'", cells(b(fmt(3) star) & se(fmt(3) par) &
ci(fmt(3) par)) mtitles stats(N aic bic r2_p chi2 p) r(level) pr2 replace
compress nogap star( * 0.10 ** 0.05 *** 0.01 ) title("mlogit") eform
unstack label noline nogaps onecell nonu
> mbers
18. hugocmd expand,end
```

```
19.
. }
> mlogity2018RR , 利用tmp/target.ds

> mlogity2019RR , 利用tmp/target.ds
```

mlogit RR

html link

mlogit								
	model1			model2			model3	
	1	2	3	1	2	3	1	2
	b/se/ci95	b/se/ci95	b/se/ci95	b/se/ci95	b/se/ci95	b/se/ci95	b/se/ci95	b/se/ci95
lace	1.269 <sup>***</sup> (0.047) [1.180,1.365]	1.288 <sup>***</sup> (0.060) [1.175,1.412]	1.000 (.) [1.000,1.000]					
住院 天數				1.020 <sup>***</sup> (0.006) [1.008,1.033]	1.026 <sup>***</sup> (0.007) [1.013,1.039]	1.000 (.) [1.000,1.000]	1.015 <sup>**</sup> (0.006) [1.003,1.028]	1.021 <sup>***</sup> (0.007) [1.009,1.033]
門診 住院				1.000 (.) [1.000,1.000]	1.000 (.) [1.000,1.000]	1.000 (.) [1.000,1.000]	1.000 (.) [1.000,1.000]	1.000 (.) [1.000,1.000]
急診 住院				1.188 (0.240) [0.800,1.763]	1.501 (0.406) [0.883,2.552]	1.000 (.) [1.000,1.000]	1.610 <sup>**</sup> (0.345) [1.058,2.449]	1.813 <sup>**</sup> (0.512) [1.043,3.152]
共病				1.233 <sup>**</sup> (0.123) [1.013,1.500]	1.291 <sup>**</sup> (0.151) [1.027,1.623]	1.000 (.) [1.000,1.000]	1.150 (0.125) [0.930,1.423]	1.217 (0.151) [0.954,1.511]
前6個 月急 診次 數				1.279 <sup>***</sup> (0.051) [1.183,1.383]	1.324 <sup>***</sup> (0.060) [1.211,1.446]	1.000 (.) [1.000,1.000]	1.254 <sup>***</sup> (0.052) [1.157,1.359]	1.305 <sup>***</sup> (0.060) [1.192,1.421]
女							1.000 (.) [1.000,1.000]	1.000 (.) [1.000,1.000]
男							1.068 (0.193) [0.750,1.521]	1.044 (0.239) [0.667,1.631]
年齡							0.796 <sup>***</sup> (0.054) [0.698,0.909]	0.872 (0.074) [0.739,1.005]
age10							1.134 <sup>***</sup> (0.044) [1.050,1.224]	1.068 (0.054) [0.968,1.171]

非重大傷病							1.000 (.) [1.000,1.000]	1.000 (.) [1.000,1.000]
重大傷病							2.721*** (0.841) [1.484,4.988]	2.431** (0.957) [1.124,5.26]
張數							0.849* (0.077) [0.712,1.014]	0.945 (0.091) [0.782,1.14]
前年急診次數								
N	4346.000			4346.000			4344.000	
aic	1935.647			1933.284			1917.373	
bic	1961.155			1997.055			2044.904	
r2_p	0.035			0.042			0.060	
chi2	70.117			84.479			120.187	
p	0.000			0.000			0.000	
Exponentiated coefficients								

## html link

mlogit								
	model1			model2			model3	
	1	2	3	1	2	3	1	2
	b/se/ci95	b/se/ci95	b/se/ci95	b/se/ci95	b/se/ci95	b/se/ci95	b/se/ci95	b/se/ci95
lace	1.272*** (0.047) [1.183,1.368]	1.253*** (0.060) [1.141,1.375]	1.000 (.) [1.000,1.000]					
住院天數				1.027*** (0.005) [1.017,1.037]	1.026*** (0.006) [1.015,1.038]	1.000 (.) [1.000,1.000]	1.025*** (0.005) [1.015,1.036]	1.019*** (0.007) [1.006,1.03]
門診住院				1.000 (.) [1.000,1.000]	1.000 (.) [1.000,1.000]	1.000 (.) [1.000,1.000]	1.000 (.) [1.000,1.000]	1.000 (.) [1.000,1.000]
急診住院				1.364 (0.286) [0.904,2.057]	0.716 (0.179) [0.440,1.168]	1.000 (.) [1.000,1.000]	1.733** (0.387) [1.119,2.685]	0.980 (0.264) [0.577,1.66]
共病				0.959 (0.159)	1.164 (0.161)	1.000 (.)	0.865 (0.160)	1.044 (0.173)

				[0.693,1.328]	[0.888,1.525]	[1.000,1.000]	[0.602,1.242]	[0.754,1.444]
前6個月急診次數				1.318*** (0.064) [1.198,1.449]	1.443*** (0.078) [1.298,1.605]	1.000 (.) [1.000,1.000]	1.294*** (0.064) [1.175,1.426]	1.413*** (0.080) [1.265,1.571]
女							1.000 (.) [1.000,1.000]	1.000 (.) [1.000,1.000]
男							1.041 (0.190) [0.728,1.489]	1.100 (0.264) [0.688,1.761]
年齡							0.951 (0.066) [0.830,1.089]	0.771*** (0.074) [0.638,0.904]
age10							1.031 (0.042) [0.953,1.117]	1.131** (0.061) [1.017,1.257]
非重大傷病							1.000 (.) [1.000,1.000]	1.000 (.) [1.000,1.000]
重大傷病							2.306*** (0.719) [1.251,4.250]	4.674*** (1.730) [2.262,9.685]
張數							0.857* (0.069) [0.732,1.002]	0.990 (0.086) [0.836,1.174]
前年急診次數								
N	4108.000			4108.000			4108.000	
aic	1863.531			1848.580			1836.049	
bic	1888.814			1911.787			1962.463	
r2_p	0.034			0.048			0.065	
chi2	64.915			91.866			124.397	
p	0.000			0.000			0.000	
Exponentiated coefficients								

用最原始的estout顯示RR



## 跑mlogit 1237, RR

```
. use ../tmp/targetds,clear

.
. foreach period in y2018 y2019{
  2. hugocmd expand,hbody("default=mlogit`period' ㄟRR · 利用tmp/target.ds")
  3.
. eststo clear
  4. eststo model1: mlogit unplan lace if `period'==1,base(3)
  5. mlogit, rrr
  6.
. eststo model2: mlogit unplan hindays i.hintype1 wgtcc ce if
`period'==1,base(3)
  7. mlogit, rrr
  8.
. eststo model3: mlogit unplan hindays i.hintype1 wgtcc ce i.sex age age10
i.job1 hdiag_num if `period'==1,base(3)
  9. mlogit, rrr
  10.
. eststo model7: mlogit unplan hindays age age10 ce360 i.job1 if
`period'==1,base(3)
  11. mlogit, rrr
  12.
. genfilename "${outposix}_mlogit", pre("../report/") post(".html")
autoinc
  13.
.
. estout using "`r(fn)'", cells(b(fmt(3) star) & se(fmt(3) par("`<br/>(''
`<br/>(''")) & ci(fmt(3) par)) stats(N aic bic r2_p chi2 p) replace
title("mlogit") eform unstack label nonumbers ///
> begin("<tr><td>") ///
> delimiter("</td><td>") ///
> end("</td></tr>") ///
> prehead("<table border='0' width='*'>'`<thead>'") ///
> posthead("</thead><tbody> '") ///
> postfoot("</tbody></table>'") ///
> interaction(" # ") ///
> starlevels( * 0.10 ** 0.05 *** 0.01 )
  14.
. hugocmd expand,end
  15.
. }
> mlogity2018ㄟRR · 利用tmp/target.ds

> mlogity2019ㄟRR · 利用tmp/target.ds
```

## 不用esttab的mlogitRR

[html link](#)

	model1			model2			model3	
	1	2	3	1	2	3	1	2
	b/se/ci95	b/se/ci95	b/se/ci95	b/se/ci95	b/se/ci95	b/se/ci95	b/se/ci95	b/se/
lace	1.269*** (0.047) [1.180,1.365]	1.288*** (0.060) [1.175,1.412]	1.000 (.) [1.000,1.000]					
住院 天數				1.020*** (0.006) [1.008,1.033]	1.026*** (0.007) [1.013,1.039]	1.000 (.) [1.000,1.000]	1.015** (0.006) [1.003,1.028]	1.021** (0.007) [1.009,
門診 住院				1.000 (.) [1.000,1.000]	1.000 (.) [1.000,1.000]	1.000 (.) [1.000,1.000]	1.000 (.) [1.000,1.000]	1.000 (.) [1.000,
急診 住院				1.188 (0.240) [0.800,1.763]	1.501 (0.406) [0.883,2.552]	1.000 (.) [1.000,1.000]	1.610** (0.345) [1.058,2.449]	1.813** (0.512) [1.043,
共病				1.233** (0.123) [1.013,1.500]	1.291** (0.151) [1.027,1.623]	1.000 (.) [1.000,1.000]	1.150 (0.125) [0.930,1.423]	1.217 (0.151) [0.954
前6個 月急 診次 數				1.279*** (0.051) [1.183,1.383]	1.324*** (0.060) [1.211,1.446]	1.000 (.) [1.000,1.000]	1.254*** (0.052) [1.157,1.359]	1.305** (0.060) [1.192,1
女							1.000 (.) [1.000,1.000]	1.000 (.) [1.000,
男							1.068 (0.193) [0.750,1.521]	1.044 (0.239) [0.667,
年齡							0.796*** (0.054) [0.698,0.909]	0.872 (0.074) [0.739,
age10							1.134*** (0.044) [1.050,1.224]	1.068 (0.054) [0.968
非重 大傷 病							1.000 (.) [1.000,1.000]	1.000 (.) [1.000,
重大 傷病							2.721*** (0.841) [1.484,4.988]	2.431** (0.957) [1.124,5
張數							0.849* (0.077) [0.712,1.014]	0.945 (0.091) [0.782,

	model1			model2			model3	
	1	2	3	1	2	3	1	2
	b/se/ci95	b/se/ci95	b/se/ci95	b/se/ci95	b/se/ci95	b/se/ci95	b/se/ci95	b/se/ci95
前年 急診 次數								
_cons	0.006*** (0.002) [0.003,0.011]	0.003*** (0.001) [0.002,0.007]	1.000 (.) [1.000,1.000]	0.019*** (0.003) [0.013,0.027]	0.009*** (0.002) [0.005,0.014]	1.000 (.) [1.000,1.000]	0.027*** (0.007) [0.016,0.043]	0.011*** (0.004) [0.006,0.016]
N	4346.000			4346.000			4344.000	
aic	1935.647			1933.284			1917.373	
bic	1961.155			1997.055			2044.904	
r2_p	0.035			0.042			0.060	
chi2	70.117			84.479			120.187	
p	0.000			0.000			0.000	

## html link

	model1			model2			model3	
	1	2	3	1	2	3	1	2
	b/se/ci95	b/se/ci95	b/se/ci95	b/se/ci95	b/se/ci95	b/se/ci95	b/se/ci95	b/se/ci95
lace	1.272*** (0.047) [1.183,1.368]	1.253*** (0.060) [1.141,1.375]	1.000 (.) [1.000,1.000]					
住院 天數				1.027*** (0.005) [1.017,1.037]	1.026*** (0.006) [1.015,1.038]	1.000 (.) [1.000,1.000]	1.025*** (0.005) [1.015,1.036]	1.019*** (0.007) [1.006,1.032]
門診 住院				1.000 (.) [1.000,1.000]	1.000 (.) [1.000,1.000]	1.000 (.) [1.000,1.000]	1.000 (.) [1.000,1.000]	1.000 (.) [1.000,1.000]
急診 住院				1.364 (0.286) [0.904,2.057]	0.716 (0.179) [0.440,1.168]	1.000 (.) [1.000,1.000]	1.733*** (0.387) [1.119,2.685]	0.980 (0.264) [0.577,1.383]
共病				0.959 (0.159) [0.693,1.328]	1.164 (0.161) [0.888,1.525]	1.000 (.) [1.000,1.000]	0.865 (0.160) [0.602,1.242]	1.044 (0.173) [0.754,1.334]

	model1			model2			model3	
	1	2	3	1	2	3	1	2
	b/se/ci95	b/se/ci95	b/se/ci95	b/se/ci95	b/se/ci95	b/se/ci95	b/se/ci95	b/se/ci95
前6個月急診次數				1.318*** (0.064) [1.198,1.449]	1.443*** (0.078) [1.298,1.605]	1.000 (.) [1.000,1.000]	1.294*** (0.064) [1.175,1.426]	1.413* (0.080) [1.265,1.561]
女							1.000 (.) [1.000,1.000]	1.000 (.) [1.000,1.000]
男							1.041 (0.190) [0.728,1.489]	1.100 (0.264) [0.688,1.912]
年齡							0.951 (0.066) [0.830,1.089]	0.771* (0.074) [0.638,0.904]
age10							1.031 (0.042) [0.953,1.117]	1.131* <sup>†</sup> (0.061) [1.017,1.245]
非重大傷病							1.000 (.) [1.000,1.000]	1.000 (.) [1.000,1.000]
重大傷病							2.306*** (0.719) [1.251,4.250]	4.674* <sup>†</sup> (1.730) [2.262,7.886]
張數							0.857* (0.069) [0.732,1.002]	0.990 (0.086) [0.836,1.144]
前年急診次數								
_cons	0.006*** (0.002) [0.003,0.011]	0.004*** (0.002) [0.002,0.008]	1.000 (.) [1.000,1.000]	0.017*** (0.003) [0.012,0.025]	0.013*** (0.003) [0.008,0.020]	1.000 (.) [1.000,1.000]	0.018*** (0.005) [0.011,0.029]	0.017* (0.005) [0.009,0.025]
N	4108.000			4108.000			4108.000	
aic	1863.531			1848.580			1836.049	
bic	1888.814			1911.787			1962.463	
r2_p	0.034			0.048			0.065	
chi2	64.915			91.866			124.397	
p	0.000			0.000			0.000	

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