SAS Syntax for Logistic Regression DIF Analyses

**options nodsnferr mcompilenote=all mlogic mprint nocenter;**

**data** LR; **set** ch16.dif;

total=total-**19.7843438**;

group=group-**0.383730**;

**run**;

**data** LRresult; set \_null\_;

**%macro** ***log***;

**%do** item=**1** %to **31**;

**proc logistic data=**LR **outset =** a&item **noprint;**

**mode**l i&item(**Event='1'**) = total;

**proc logistic data=**LR **outset =** b&item **noprint;**

model i&item(**Event='1'**) = total group;

**proc logistic data=**LR **outset =** c&item **noprint;**

**model** i&item(**Event='1'**) = total|group;

**run;**

**data** temp(**keep=**item log1 log2 log3); **merge** a&item(**rename=**(\_LNLIKE\_= log1))

b&item(**rename=**(\_LNLIKE\_=log2)) c&item(**rename=**(\_LNLIKE\_= log3));

item=&item;

**run;**

**data** LRresult; **set** LRresult temp;

**run;**

**proc datasets; delete** temp a&item b&item c&item;

**run;**

**%end;**

**%mend** log;

%***log***;

**data** result; **set** LRresult;

Uchi=(log1-log2);

NUchi=(log2-log3);

prob1=**1**-**probchi**(Uchi,**1**);

prob2=**1**-**probchi**(NUchi,**1**);

**run**;

**ods rtf file=**"*your folder*\LRoutput.rtf";

**proc** **sort** **datav= r**esult; **by descending** Uchi NUchi;

**proc** **print**; **format** log1 log2 log3 Uchi NUchi prob1 prob2 **F9.5;**

**id** item; **var** log1 log2 log3 Uchi NUchi prob1 prob2 ;

**run**;

**ods rtf close;**