# Activity Based Funding

## **URG**

Grouper User Guide



**Independent Hospital Pricing Authority** 

### URGGrouper User Guide

#### Introduction

The *URGGrouper* application has been developed by Independent Hospital Pricing Authority (IHPA) to assist state and territory health departments and hospitals to group hospital emergency department data to the URG classification system.

This application provides the following facilities:

- 1. The ability to map other version of diagnosis codes to major diagnosis blocks;
- 2. The ability to group an Access data file interactively and view group results and summary results;
- 3. The ability to batch group Access data files interactively;
- 4. The ability to group text files interactively and view group results and summary results; and
- 5. The ability to batch group text files interactively.

**Please note:** *URGGrouper* has been developed according to the agreed URG classification system and tested with sample data. However, issues may be identified as states and territories and hospitals run real-life data through the software. **If you think that URGGrouper is grouping records incorrectly**, we would appreciate your assistance **by notifying us as soon as possible** in order to confirm and correct faults immediately.

#### Contact us

For more information, contact:

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#### Abbreviations

Term	Description
AM	Australian Modification
AR-DRG	Australian Refined Diagnosis Related Group
СМ	Clinical Modification
ED	Emergency Department
ICD	International Classification of Diseases and related health problems
IHPA	Independent Hospital Pricing Authority
MDB	Major Diagnostic Block
MDC	Major Diagnostic Category
URG	Urgency Disposition Groups
UDG	Urgency Related Groups

The following abbreviations are used throughout this document.

#### **Input Fields**

A URG code is determined by five factors: **Episode End Status, Type of Visit, Triage, Sex** and **Diagnosis Code.** In addition, a "**Diagnosis Type**" field is required to identify the diagnosis code reported.

The valid values for the **Episode End Status** field are:

Value	Description
1	Admitted to this hospital (including to units or beds within the emergency department)
2	Non-admitted patient emergency department service episode completed – departed without being admitted or referred to another hospital
3	Non-admitted patient emergency department service episode completed – referred to another hospital for admission
4	Did not wait to be attended by a health care professional
5	Left at own risk after being attended by a health care professional but before the non-admitted patient emergency department services episode was completed
6	Died in emergency department as a non-admitted patient
7	Dead on arrival, not treated in emergency department
9	Not stated/inadequately described

The valid values for the **Type of Visit** field are:

Value	Description
1	Emergency presentation
2	Returned visit, planned
3	Pre-arranged admission
4	Patient in transit
5	Dead on arrival
9	Not reported / unknown

The valid values for the **Triage** field are:

Value	Description
1	Resuscitation: Immediate (Within seconds)
2	Emergency: Within 10 minutes
3	Urgent: Within 30 minutes
4	Semi-urgent: Within 60 minutes
5	Non-urgent: Within 120 minutes
9	Triage Category – not assigned

The valid values for the **Diagnosis Type** field are:

Value	Description
10	SNOMED CT
20	ICD-9-CM
31	1 <sup>st</sup> edition ICD-10-AM
32	2 <sup>nd</sup> edition ICD-10-AM
33	3 <sup>rd</sup> edition ICD-10-AM
34	4 <sup>th</sup> edition ICD-10-AM
35	5 <sup>th</sup> edition ICD-10-AM
36	6 <sup>th</sup> edition ICD-10-AM
37	7 <sup>th</sup> edition ICD-10-AM
38	8 <sup>th</sup> edition ICD-10-AM
41	AR DRG MDC
90	No diagnosis classification provided

The valid values for the **Sex** field are:

Value	Description
1	male
2	female
3	Intersex or indeterminate
9	Not stated/inadequately described

A unique episode number for each episode is also required to link the URG with the complete ED episode.

**Please note:** To avoid .net memory limit, we recommend the number of episodes in the input file is less than 2.5 million.

#### How to group a text file

1. Open URGroupT, then click the "Select File" or "Select Folder" button to select the text file or the folder(running for all the files under such folder, as a batch process) to be grouped.

Stouper	u.		_			Sel	ect a				
URGGrouper	Input positi	fields' ons				Tex	t File or				
Fields Position Input Fields Episode N Sex: Episode E Triage: EdVisit: Diagnosis Diagnosis	lo: ind Status: Code:	Start Position Start Position Start Position Start Position Start Position Start Position Start Position	1 21 22 23 24 25 43	Length: Length: Length: Length: Length: Length: Length:	20 1 1 1 1 18 2	Output Fields URG: URG Version URGMDB Gh ICD-10-AM	Start Position Start Position Start Position Start Position	45 48 52 57	Select File Length: Length: Length: Length:	3 4 5	Or select a folder
Processing					ds Definition	Save Fields Def About	inition				
		Viev	v Result	) [	View URG S	ummary	View MDB Summar	у			

2. Specify input fields and output fields' position and length. URG is the default field included in output table. If a user also wishes to include MDB, please tick the box "URGMDB" and specify its position and length.

Fields Position Input Fields Episode No: Sex Episode End Status: Triage: EdVisit: Diagnosis Code: Diagnosis Type:	Start Position Start Position Start Position Start Position Start Position Start Position	1 21 22 23 24 25 43		20 1 1 1 1 18 2 Group	Output Fields URG: URG Version URGMDB Gave Fields Defin About	Start Position Start Position Start Position Start Position	45 48 52 57	Length: Length: Length: Length:	3 4 5	ect Folder	
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If the ICD version reported is not ICD-10-AM 6<sup>th</sup> Edition, user can also include an "X06DDX" (mapped ICD-10-AM 6<sup>th</sup> Edition codes from the reported diagnosis codes) in the output file by ticking the box "ICD-10-AM 6<sup>th</sup> Edition" and setting its position and length.

								Select File	Selec	ct Folder
Fields Position										
Input Fields					Output Fields					
Episode No:	Start Position	1	Length:	20	URG:	Start Position	45	Length:	3	
Sex:	Start Position	21	Length:	1			40			
Episode End Status:	Start Position	22	Length:	1	URG Version	Start Position	48	Length:	4	
Triage:	Start Position	23	Length:	1	URGMDB	Start Position	52	Length:	5	
EdVisit:	Start Position	24	Length:	1			67			
Diagnosis Code:	Start Position	25	Length:	18	👿 6th ICD-10-AM	Start Position	57	Length:	5	2
Diagnosis Type:	Start Position	43	Length:	2						
			Load Fiel	ds Definition	Save Fields Defin	hition				
				Group	About					
Processing						_				
	Vie	w Result	ſ	View URG S	ummany	View MDB Summar	v			

**3.** After Step2 and 3, user can click the "Save Fields Definition" button to save fields' definitions to an urgfmt file.

Episode No:       Start Position       1       Length:       20       URG:       Start Position       45       Length:       3         Sex:       Start Position       21       Length:       1       Image:       VIRG:       Start Position       45       Length:       3         Episode End Status:       Start Position       22       Length:       1       Image:       VIRG Version       Start Position       48       Length:       4         Triage:       Start Position       23       Length:       1       Image:       VIRGMDB       Start Position       52       Length:       5         EdVisit:       Start Position       24       Length:       1       Image:       Virgit:       57       Length:       5
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Save fields definitions				×				
🗸 🗸 🖉 🗸 🗸 🗸 🗸	> URG Grouper(Commandline	:) ▶ <b>▼ <del>4</del>9</b>	Search URG Group	er(Comman 🔎			Select File	Select Folder
Organize 👻 New fol	der			!				
Desktop Downloads Recent Places Documents Music Pictures Videos	Name Command Test map		Date modified 26/11/2012 5:21 PM 26/11/2012 5:22 PM	Type File folder File folder	ition ition ition	44 46 50 55	Length: Length: Length: Length:	2 4 5 5
File name:	Grouper Format files (*.urgfmt)	111	Save	۲ ۲ Cancel				

Next time, by clicking the "Load Fields Definition" button, user is able to load saved field definition into the application.

Fields Position								Select File	Select Folde
Input Fields					Output Fields				
Episode No:	Start Position	1	Length:	20	URG:	Start Position	45	Length:	3
Sex:	Start Position	21	Length:	1	ona.	Julit Publiciti			
Episode End Status:	Start Position	22	Length:	1	<b>URG</b> Version	Start Position	48	Length:	4
Triage:	0 D	23		1			50		-
	Start Position		Length:		URGMDB	Start Position	52	Length:	5
EdVisit:	Start Position	24	Length:	1	Gth ICD-10-AM	Start Position	57	Length:	5
Diagnosis Code:	Start Position	25	Length:	18	M GITICD-TO-AM	Julit 1 Usition		Lengur.	
Diagnosis Type:	Start Position	43	Length:	2					
		I	_	ds Definition	Save Fields Defin	nition			
				Group	About				
Processing									

4. Click the "Group" button, then the application starts grouping data.

Fields Position Input Fields					Output Fields				
Episode No:	Start Position	1	Length:	20			45		3
Sex:	Start Position	21	Length:	1	URG:	Start Position	40	Length:	3
Episode End Status:	Start Position	22			URG Version	Start Position	48	Length:	4
			Length:	1					
Triage:	Start Position	23	Length:	1	<b>URGMDB</b>	Start Position	52	Length:	5
EdVisit:	Start Position	24	Length:	1			57		E
Diagnosis Code:	Start Position	25	Length:	18	Gth ICD-10-AM	Start Position	57	Length:	5
Diagnosis Type:	Start Position	43	Length:	2					
			Load Fiel	ds Definition	Save Fields Defin	nition			
Processing			$\subset$	Group	About				
Processing									

When the grouping is completed, a "**Complete**" message will be popped out and the running time will be displayed in the bottom of the page.

URGGrouper									
D:\Users\localuser\Deskto	p\test1.bd						Select File	S	elect Folder
Fields Position									
Input Fields				Output Fields					
Episode No:	Start Position 1	Length:	20	URG:	Start Position	44	Length:	2	
Sex:	Start Position 21	Length:	1	<b>URG Version</b>	Start Position	46	Length:	4	
Completed			<b>-X</b>		Start Position	50	Length:	5	
D:\Users	\localuser\Desktop\test1_Gro	uped.txt has been o	created	Gth ICD-10-AM	Start Position	55	Length:	5	
			ОК	Save Fields Defin	nition				
Processing		Gro	up	About					
rioceanig									
Completed Grouping D:\U	sers\localuser\Desktop\test1.txt								
Time taken: 42 s <	Running Time								
	View Result		/iew URG Sum	Imary	View MDB Summar	у			

A new file with the name being <input file name>+"\_Grouped" will be created in the same folder as the input file.

In step 1, if user selected a folder instead, the grouper would go through all files under such folder and process these files one by one in a batch mode.

:\Working\AY\test Fields Position		Output Fields		Select File	Select Folde
Episode No: Start Pos	ition 1 Length:	20 URG:	Start Position	44 Length:	2
Completed		1 URG V	ersion Start Position	46 Length:	4
I:\Working\AY\test\te	st2.txt has been created st3.txt has been created	1 URGMI	DB Start Position	50 Length:	5
I:\vvorking\AY\test\te	st1.txt has been created	2 6th ICD	-10-AM Start Position	55 Length:	5
	Load Fields	s Definition Save	Fields Definition		
	G	iroup	About		
Processing					
Completed Grouping I:\Working\AY\test\te	est1.bxt.				
Time taken: 32 s					

5. In order to view the group results, click the "View Results" button. If a folder is selected in step 1, the result for each file in the folder will be shown side by side.

Users Vo	ocaluser\De	esktop\test1.txt								Select File		Select Fold
lds Pos	ition											
nput Fie	lds					0ι	tput Fields					
Episod	de No:	Sta	art Position	1	Length: 20		IDC.	Start Position	45	Length:	3	
Sex:		Sta	art Position	21	Length: 1	'	JRG:	Start Position		Longin.		
							URG Version	Start Position	48	Length:	4	
Episod	de End Stat	us: Sta	art Position	22	Length: 1	'						
Triage		Sta	art Position	23	Length: 1		URGMDB	Start Position	52	Length:	5	
<b>E</b> .04-				24	Length: 1		e onambe	otor i oblion		congin.		
EdVisi	π:	Sta	art Position				Gth ICD-10-AM	Start Position	57	Length:	5	
Diagn	osis Code:	Sta	art Position	25	Length: 18							
Diagn	osis Type:	Sta	art Position	43	Length: 2							
				ĺ	Load Fields Def	finition	Save Fields De	finition				
					Group		About					
ocessin					Group		About					
ne take	en:42 s		Viev	v Result	Viev	w URG Summany	·	View MDB Summ	ary			
1100			Viev	v Result	Viev	w URG Summary	/	View MDB Summ	ary			
1100	n: 42 s	sult	Viev	v Result	Viev	w URG Summan		View MDB Summ	ary			<u>s</u>
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URG	View Re	Epi_No 18 19 50 51	Disposition 2 2 2 2 2 2	Triage 4 4 4 3	e Dia 419 911 541 171	<sup>39</sup> 502003 75000 50009 431004	DiagType I 10 E 10 6 10 6 10 6	URG 1 14 N 8 3 11 3 14 N	MDB OMAP E B OMAP	X06DDX NOMAP R568 J069 NOMAP		
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D. - R	View Re View Re 4 5 5 5 5 5 5 5 5 5 5 5 5 5	Epi_No 18 19 19 10 10 11 12 13 13 14 15 16 16 17 16 18 19 19 10 10 11 10 10 10 10 10 10 10 10 10 10	Disposition 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	Triage 4 4 4 3 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4	<ul> <li>Dia</li> <li>419</li> <li>911</li> <li>541</li> <li>171</li> <li>614</li> <li>384</li> <li>299</li> <li>747</li> <li>389</li> <li>645</li> <li>340</li> <li>614</li> <li>685</li> <li>478</li> <li>136</li> <li>541</li> <li>136</li> <li>541</li> </ul>	ag 502003 50009 431004 2004 1709000 1709002 132009 1665005 114006 1007 114006 114006 1004 114006 1004 114006 1004 114006 1005 1009 100000 100000 100000 10000 100000 100000 100000 100000 1000	DiagType         I           10         E           10         6           10         6           10         6           10         6           10         6           10         6           10         6           10         6           10         6           10         6           10         6           10         6           10         6           10         6           10         5           10         7           10         2           10         6	URG 1 4 N 8 3 1 3 4 N 8 3 4 N 5 3 8 3 4 N 5 3 8 4 8 4 8 4 8 3 8 4 3 9 3 8 8 3 8 3 8 3 8 3 8 3 8 3 8 3 3 7 3 7 3 3 3 9 3 3 3 3 3 3 3 3 3 3 3	MDB OMAP E B OMAP OMAP G G A A A A N N D B B B B	X06DDX           NOMAP           R568           J069           NOMAP           J111           NOMAP           J111           NOMAP           F99           R55           I471           B349           J111           N390           T112           J449           J069		
URG D.Y - Fi	View Re View Re 4 5 5 5 5 5 5 5 5 5 5 5 5 5	Epi_No 18 19 19 10 10 11 12 13 13 14 15 16 16 17 16 18 19 16 17 16 18 19 19 10 10 10 10 10 10 10 10 10 10 10 10 10	Disposition 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	Triage 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4	<ul> <li>Dia</li> <li>419</li> <li>911</li> <li>541</li> <li>171</li> <li>614</li> <li>384</li> <li>299</li> <li>747</li> <li>389</li> <li>645</li> <li>340</li> <li>614</li> <li>685</li> <li>478</li> <li>136</li> <li>541</li> <li>752</li> <li>400</li> </ul>	ag 502003 50000 50009 431004 12004 1709000 1709000 1709002 132009 1665005 114006 1	DiagType         I           10         E           10         6           10         6           10         6           10         6           10         6           10         6           10         6           10         6           10         6           10         6           10         6           10         6           10         6           10         6           10         6           10         7           10         2           10         6           10         5           10         7           10         2           10         6	URG 1 4 N 8 3 1 3 4 N 8 3 4 N 5 3 4 N 5 3 8 4 1 3 9 3 8 3 8 3 8 3 8 3 8 3 8 3 8 3 8	MDB OMAP E B OMAP OMAP G A A A A N N D B B B B N OMAP	X06DDX           NOMAP           R568           J069           NOMAP           J111           NOMAP           J111           NOMAP           R55           I471           B349           J111           N390           T112           J449           J069           R509		

6. For viewing the URG summary results, click the "View URG Summary" button. If a folder is selected in step 1, URG summary result for each file in the folder will be shown side by side.

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Fields Position											
Input Fields			_			Output Fields					
Episode	No:	Start Position	1	Length:	20	URG:	Start Position	45	Length:	3	
Sex:		Start Position	21	Length:	1						
Episode	End Status:	Start Position	22	Length:	1	URG Version	Start Position	48	Length:	4	
Triage:		Start Position	23	ا معالم	1			50		5	
				Length:		URGMDB	Start Position	52	Length:	5	
EdVisit:		Start Position	24	Length:	1	Gth ICD-10-AM	Start Position	57	Length:	5	
Diagnosi	s Code:	Start Position	25	Length:	18		Start Fostion		congin.		
Diagnosi	s Type:	Start Position	43	Length:	2						
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D2 Fi	URG 03 04 05 06 07 09 10 11 11 12 14 15 16 17 19 20 21 22 23	COI 1372 491 1233 2277 2422 2053 7294 2452 7294 5412 1393 5617 470 3665 1200 4400 1844 2033 310 4204	JNT 2 3 5 2 4 2 7 7 7 7 11 3 8 10 10 10 10		View URG S	ummary	View MDB Summar				
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 User is also able to view the MDB summary results by clicking the "View MDB Summary" button. If a folder is selected in step 1, MDB summary result for each file in the folder will be shown side by side.

Please note episodes grouped to an E5 error (diagnosis code – no MDB map) were given an 'ERR' value in the MDB output field in the previous version. In this revised grouper, these episodes are still grouped to an E5 error; however the output field for MDB is left blank as no MDB can be allocated.

Fields Position										
Input Fields					Output Fields					
Episode No:	Start Position	1	Length:	20	URG:	Start Position	45	Length:	3	
Sex:	Start Position	21	Length:	1						
Episode End Status:	Start Position	22	Length:	1	<b>URG Version</b>	Start Position	48	Length:	4	
Triage:	Start Position	23	Length:	1	URGMDB	Start Position	52	Length:	5	
EdVisit:	Start Position	24	Length:	1				Longin		
Diagnosis Code:	Start Position	25	Length:	18	🗹 6th ICD-10-AM	Start Position	57	Length:	5	
Diagnosis Type:	Start Position	43	Length:	2						
			Load Fie	ds Definition	Save Fields Defi	nition				
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Processing										
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	MDB	COUNT		<b>^</b>
	1A	1384		
ì	1B	11826		
	1C	2		
	1D	9845		
	2A	50392		
	2B	158392		
	2BA	83444		
	3A	141567		
	3B	157404		E
	3C	176738		
	3D	49496		
	3E	101391		
	3F	27151		
	3G	42061		
	3H	53769		
1	31	11878		
	3J	27322		
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