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 st edition ICD-10-AM
32	2 nd edition ICD-10-AM
33	3 rd edition ICD-10-AM
34	4 th edition ICD-10-AM
35	5 th edition ICD-10-AM
36	6 th edition ICD-10-AM
37	7 th edition ICD-10-AM
38	8 th 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.

IRGGrouper	Input positi	fields' ons				Тех	t File or				
Fields Position Input Fields Episode N Sex: Episode E Triage: EdVisit: Diagnosis Diagnosis	lo: nd Status: Code: Type:	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:	20 1 1 1 1 18 2	Output Fields URG: IV URG Version IV URGMDB IV Qth ICD-10-AM	Start Position Start Position Start Position Start Position	45 48 52 57	Select File Length: Length: Length: Length:	Sek 3 4 5 5	Or select a folder
Processing		View	v Result		ds Definition	Save Fields Def About	nition	y			

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	Length: Length: Length: Length: Length: Length: Length:	20 1 1 1 1 1 1 1 2 Group	Output Fields URG: URG Version URGMDB Geh ICD-10-AM Save Fields Defin About	Start Position Start Position Start Position Start Position	45 48 52 57	Select File Length: Length: Length:	Sele	* Folder

If the ICD version reported is not ICD-10-AM 6th Edition, user can also include an "X06DDX" (mapped ICD-10-AM 6th Edition codes from the reported diagnosis codes) in the output file by ticking the box "ICD-10-AM 6th Edition" and setting its position and length.

								Select File	Sele	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	40	Length:	4	
Triage:	Start Position	23	Length:	1	URGMDB	Start Position	52	Length:	5	
EdVisit:	Start Position	24	Length:	1			57		-	
Diagnosis Code:	Start Position	25	Length:	18	C 🗹 6th ICD-10-AM	Start Position	5/	Length:	0	>
Diagnosis Type:	Start Position	43	Length:	2						
			Load Fiel	ds Definition	Save Fields Defin	nition				
				Group	About					
Processing										
	Vie	w Result	ſ	View URG S	ummarv	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.

Sex. Start Position 21 Length: 1 Episode End Status: Start Position 22 Length: 1 Image: VURG Version Start Position 48 Length: 4 Triage: Start Position 23 Length: 1 Image: VURG Version Start Position 52 Length: 5 EdVisit: Start Position 24 Length: 1 Image: Image: Start Position 57 Length: 5 Diagnosis Code: Start Position 25 Length: 18 18 Image: Start Position 57 Length: 5
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Save fields definitions				×				
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Organize 👻 New fol	der			!				
Desktop Downloads Recent Places Libraries 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
Computer FreeAgent GoFle File name: Save as type: URG	Grouper Format files (*.urgfmt)	111		•				

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

Fielde Position									
Input Fields					Output Fields				
Episode No:	Start Position	1	Length:	20	LIRG:	Start Position	45	Lenath:	3
Sex:	Start Position	21	Length:	1	ona.	Julit Publiciti			
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inage:	Start Position	2.5	Length:		VRGMDB	Start Position	52	Length:	5
EdVisit:	Start Position	24	Length:	1	C Gb 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	Load Field	ds Definition	Save Fields Defin	nition			
				Group	About				
Processing									

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

Fields Position					Outout Fields				
Episode No:	Start Position	1	Length:	20	oupurnoido		45		2
Sex:	Start Poeition	21	Length:	1	URG:	Start Position	40	Length:	3
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Lpisode Lifd Status.	Start FOSILION	22	Length.						
Triage:	Start Position	23	Length:	1	URGMDB	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			
D			\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	URG Version	Start Position	46	Length:	4	
Completed			.		Start Position	50	Length:	5	
D:\Users	\localuser\Desktop\test1_Gr	ouped.txt has be	en created	📝 6th ICD-10-AM	Start Position	55	Length:	5	
			ОК	Save Fields Defin	nition				
Processing			Group	About					
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Completed Grouping D:\U	sers\localuser\Desktop\test1.b	t.							
Time taken: 42 s 🗲	Running Time								
	View Result		View URG Su	mmary	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		5	Select File	Select Folde
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Completed		1	URG Version	Start Position	46	Length:	4
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E\Working\Ar\test\	OK	18 2	I 6th ICD-10-AM	Start Position	55	Length:	5
	Load Fie	lds Definition	Save Fields Defin	ition			
		Group	About				
Processing							
Completed Grouping I:\Working\AY\test	\test1.bt.						
Time teleses 22 a							

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.

Jsers\la	ocaluser\De	esktop\test1.b	đ						Select File	S	elect Fold
lde Poe	ition										
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Triage	e:	s	Start Position	23	Length: 1		Start Position	52	Length:	5	
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Ed Visi	π:	5	start Position			Gth ICD-10-AM	Start Position	57	Length:	5	
Diagn	osis Code:	S	Start Position	25 I	Length: 18				-		
Diagn	osis Type:	S	Start Position	43 I	Length: 2						
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URG D: Fi	n: 42 s	esult Epi_No 18 19 50 51	Disposition 2 2 2 2 2 2	r Result	Diag 419502003 91175000 54150009 171431004	DiagType 10 10 10 10 10 10 10 10 10 10 10 10 10 1	View MDB Summa URG N E4 N 58 36 51 36 51 86 51 86 51 51 51 51 51 51 51 51 51 51 51 51 51	IDB DMAP E 3 DMAP	X06DDX NOMAP R568 J069 NOMAP		
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URG D: Fi	n: 42 s	sult Epi_No 18 19 50 51 52 55 56 57 58 59 50 51 52 53 53 53 53 53 53 53 54 55 55 55 55 55 55 55 55 55	Disposition 2 1 2 1 2 1 2 2	Result	Diag Diag 419502003 91175000 54150009 171431004 6142004 384709000 299709002 74732009 398665005 6456007 34014006 6142004 68566005 47874006 13645005 54150009 7520000 4009004 26857002	mmary	View MDB Summa URG N E4 N 58 38 51 36 54 N 55 32 58 4 51 34 55 32 58 4 51 34 58 31 58 31 58 32 58 32 58 32 58 32 59 32 51 32 52 32 53 32 54 31 52 32 53 32 54 31 52 32 53 33 54 N	IDB DMAP E B DMAP E B B DMAP A A A A A A A A A A A A A A A A A A	X06DDX NOMAP R568 J069 NOMAP J111 N0MAP K047 F99 R55 I471 B349 J111 N390 T112 J419 J069 R509 NOMAP		

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.

D:\Users\loca	aluser\Desktop\tes	t1.txt						Select	File	Select Folder	
Fields Positio	n										
Input Fields						Output Fields					
Episode	No:	Start Position	1	Length:	20	URG:	Start Position	45 Le	ength: 3		
Sex:		Start Position	21	Length:	1					_	
Episode	End Status:	Start Position	22	Length:	1	URG Version	Start Position	48 L	ength: 4		
Triage:		Chard Davation	23	المسطلة	1	_		50	-	_	
mage.		Start Position		Length:		URGMDB	Start Position	52 L	ength: ^D		
EdVisit:		Start Position	24	Length:	1	Ch ICD-10-AM	Start Position	57 14	ength: 5		
Diagnosi	is Code:	Start Position	25	Length:	18		ordit i contorr		ongun.		
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	View Result	Vie	w Result		View URG S	Summary	View MDB Summar	×	_		
URG D:1	View Result	Vie ▲ C00 1372	w Result		View URG S	Summary	View MDB Summar	_	_		
URG D: Fi	View Result URG 03 04	Vie ▲ COI 1372 491	W Result		View URG S	Summary	View MDB Summar	,			
URG D: Fi	View Result URG 03 04 05	Vie & COI 1372 491 1238	UNT		View URG S	Summary	View MDB Summar	y	_		
D:N Fi	View Result URG 03 04 05 06	Vie COI 1372 491 1235 2273	W Result		View URG S	Summary	View MDB Summar	y	_		
D:Y	View Result URG 03 04 05 06 07	Vie COI 1372 491 1233 2273 2425	W Result		View URG S	Summary	View MDB Summar	y			
Drg Dry Fi	View Result URG 03 04 05 06 07 09	Vie COI 1372 491 1233 2273 2422 2055	W Result		View URG S	Summary	View MDB Summar	y			
D:Y	View Result URG 03 04 05 06 07 09 10	Vie COI 1372 491 1233 2273 2422 2055 7299	W Result		View URG S	Summary	View MDB Summar	Y			
Dry Dry Fi	View Result URG 03 04 05 06 07 09 10 11	Vie COI 1372 491 1233 2273 2425 2055 7294 5412	W Result		View URG S	Summary	View MDB Summar	Y			
D2 Fi	View Result URG 03 04 05 06 07 09 10 11 12	Vie CO 1372 491 1233 2273 2425 2055 7294 5412 1393	W Result		View URG S	Summary	View MDB Summar	Y			
	View Result URG 03 04 05 06 07 09 10 11 12 14	Vie CO 1372 491 1238 2273 2428 2055 7294 5412 1399 5613	w Result		View URG S	Summary	View MDB Summar	Y			
Dry Fi	View Result URG 03 04 05 06 07 09 10 11 12 14 15	Vie CO 1372 491 1238 2273 2428 2055 7294 5412 1393 5613 470	w Result		View URG S	Summary	View MDB Summar	Y			
Dry Fi	View Result URG 03 04 05 06 07 09 10 11 12 14 15 16	Vie CO 1372 491 1233 2273 2425 2055 7294 5412 1393 5613 470 3663	w Result		View URG S	Summary	View MDB Summar	Y			
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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.

Input Fields Output Fields Episode No: Stat Position 1 Length: 20 Sex: Stat Position 21 Length: 1 Episode End Status: Stat Position 22 Length: 1 Triage: Stat Position 23 Length: 1 EdVisit: Stat Position 24 Length: 1 Diagnosis Code: Stat Position 25 Length: 18 Diagnosis Type: Stat Position 43 Length: 2 Group About	Fields Position										
Episode No: Stat Position 1 Length: 20 URG: Stat Position 45 Length: 3 Sex: Stat Position 21 Length: 1 Image: Image: Stat Position 22 Length: 1 Image: Image: Stat Position 22 Length: 1 Image: Image: <t< td=""><td>Input Fields</td><td></td><td></td><td></td><td></td><td>Output Fields</td><td></td><td></td><td></td><td></td><td></td></t<>	Input Fields					Output Fields					
Sex: Stat Position 21 Length: 1 Episode End Status: Stat Position 22 Length: 1 Triage: Stat Position 23 Length: 1 Image: Stat Position 52 Length: 5 EdVisit: Stat Position 24 Length: 1 Image: Stat Position 52 Length: 5 Diagnosis Code: Stat Position 25 Length: 18 Image: Stat Position 57 Length: 5 Diagnosis Type: Stat Position 43 Length: 2 Save Fields Definition Save Fields Definition Group About	Episode No:	Start Position	1	Length:	20	URG:	Start Position	45	Length:	3	
Episode End Status: Stat Position 22 Length: 1 Triage: Stat Position 23 Length: 1 EdVisit: Stat Position 24 Length: 1 Diagnosis Code: Stat Position 25 Length: 18 Diagnosis Type: Stat Position 43 Length: 2 Group	Sex:	Start Position	21	Length:	1	U.I.G.					
Triage: Start Position 23 Length: 1 EdVist: Start Position 24 Length: 1 Diagnosis Code: Start Position 25 Length: 18 Diagnosis Type: Start Position 43 Length: 2 Length: 1 URGMDB Start Position 57 Length: 5 Diagnosis Type: Start Position 43 Length: 2 Load Fields Definition Save Fields Definition Ocessing	Episode End Status:	Start Position	22	Length:	1	URG Version	Start Position	48	Length:	4	
Inage: Start Position 23 Length: 1 Image: VURGMDB Start Position 52 Length: 5 EdVist: Start Position 24 Length: 1 Image: VURGMDB Start Position 52 Length: 5 Diagnosis Code: Start Position 25 Length: 18 Image: V Rth ICD-10-AM Start Position 57 Length: 5 Diagnosis Type: Start Position 43 Length: 2 Image: Image: 10 Image: 10 Image: 10 Image: 10					·						
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Diagnosis Type: Start Position 43 Length: 2 Load Fields Definition Save Fields Definition Group About	Diagnosis Code:	Start Position	25	Length:	18	6th ICD-10-AM	Start Position	57	Length:	5	
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ompleted Grouping D:\Users\localuser\Desktop\test1.txt.											

	MDB	COUNT		^
	1A	1384		
	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		
	ЗК	13721		
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