

PRIMES: Pediatric Respiratory Illness Measurement System

Using the Excel Abstraction Tool

Medical Record Abstractor Materials Seattle, WA February 22, 2019



Getting Started With the PRIMES Abstraction Tool

- 1. Place a copy of the file PRIMES ABSTRACTION TOOL in the desired directory.
- 2. Open the file. If you get any warnings or confirmations about running macros, please enable macros for this file. The tool will not work without them. You may need to contact your IT department for assistance.





PRIMES Home Screen

	P	RIME	The PRIMES tool for medical reco Center for Child Health, Behavior Children's Hospital Research Inst
H	IELP	A (2)	GO!
	New Abstrac Continue Las Revise / Con	tion st Abstraction tinue Abstraction t Partial Case	Conditions C roup A sthma F ronchiolitis C AP Community Acquired Pneumonia I C Onditions
-	Export t export path:	Abstractor Institution	Your Name Your C ompany

Use the boxes on the left to select which action to take.

Use the boxes on the right to select a condition. "All Conditions" only applies to Scoring and Export Actions.

Press the GO! button to take the selected action.



From any sheet, the HOME button in the upper left returns to the Home Screen. The keyboard command Ctrl+H will also return to the Home Screen



New Abstraction

Actions



The New Abstraction button clears out all data from any previous case and navigates to the first page of abstraction for that condition.





Abstraction Tool Data Entry

ASTHMA START



Textique Case ID

Enter patient birthdate (MM/DD/YYYY)

I) Exclusions

1) Criteria on Admission

At the time of admission, did the patient have a positive history of any c

Congenital cystic or agenesis, hypoplasia, dysplasia of lung

Congenital heart disease

Congenital neurological disorder

Quadriplegia or quadriparesis

Current chemotherapy treatment

Already intubated at the time of ED arrival (or hospital, if direct admit). choice

Yes No/No data

ASTHMA ED

II) ED CARE

4) ED Admission and Discharge

Enter the date (MM/DD/YYYY) and time (HHMM 24-hour clock and the date and time of discharge from the ED.

	Date	Time	
4.A)	12/2/2013	1200	Arrival/registration
4.B)	12/2/2013	1205	Admission
4.C)	12/2/2013	1300	Discharge

Time of first clinical note (HHMM 24-hour clock)

4.D) 1205

5) Initial Physical Exam

Data entry must be in a designated value cell in order to be properly read by the tool. The different kinds of cells are formatted differently to provide a guide to what kind of data to enter.

Note: in the case of Multiple Choice or Yes/No questions, it does not matter what kind of character is placed in the cell.

	TIME (HHMM 24-Hour	AUSC	HR	400)	SaO2 (value between 0 and
ł	1215			30	100)
	Time	Yes/	No	Num	oers

PRIMES

Abstraction Tool Navigation and Data Checks

ASTHMA START
Enter unique Case ID
12/12/2012 Enter patient birthdate (MM/DD/YYYY)
I) Exclusions
1) <u>Criteria on Admission</u>
At the time of admission, did the patient have a positive history of any of the foll
Congenital cystic or agenesis, hypoplasia, dysplasia of lung
Congenital heart disease Microsoft Excel
Congenital neurological disorder
Quadriplegia or quadriparesis Error: required value not entered
Current chemotherapy treatment
Already intubated at the time of ED a
1 Yes OK
2 x No/N
2) <u>Discharge Diagnoses</u>
Did the discharge diagnoses include "asthma" or "reactive airway disease (RAD
1 X Yes
2 No/No data
II) <u>ED CARE</u>
3) Emergency Care
Was this patient admitted to the marker hospital ED? NOTE: Consider treatment
marker hospital to be part of the marker hospital ED care if the patient is transferre
1 X Yes
2 No, direct inpatient admission/observation
HOME

3

Navigate through the tool using the forward/back buttons. When you move forward through the tool, the data is checked for validity. If an invalid cell is found, the cell is outlined in red and you will get a pop-up message indicating the type of problem. Common problems:

- Required value missing
- Invalid Date
- Invalid Time
- More than one multiple choice cell marked
- Invalid data combination (ie, this question should only be answered if a previous question is answered "yes")

Branching Logic

Just as with online surveys you might have used (REDCap, etc.) the Excel PRIMES tool uses branching logic to navigate to different data entry form pages depending on earlier questions.

Calculate & Save

Press the Calculate & Save button to calculate the measure values and write the current case to the Case History sheet. It will also save the Excel workbook.

ASTHMA END

Case ID : 698 Admit : 6/5/2018 900 Disch : 6/6/2018 1212





PRIMES Continue/View





PRIMES Revise or Continue Abstraction

Actions

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Revise / Continue Abstraction





Revise or Continue Abstraction pulls in any case saved in this copy of the tool. You will be able to navigate through from the beginning, updating any data that might be necessary.

When you get to the end of the case, press the Calculate & Save button to re-calculate and save using the new data.





PRIMES Save Current Partial Case

Actions

- New Abstraction
 - Continue Last Abstraction
 - **Revise / Continue Abstraction**
 - Save Current Partial Case
 - View Last Case Data

Save Current Partial Case Saves the current case as a Partial Case with no scoring data. This option is generally used if you are unable to complete a particular abstraction at this time and want to move on to abstracting a different case.

Important!

If you save the current case as a partial case, if a completed case with the same Case ID exists, it will overwrite that case!

Scoring			
Microsoft Excel			8
Are you sure you want to save th no scoring data?	e current case as a	partially complet	ed case with
	Yes	No	Cancel



PRIMES View Last Case Data

Actions



~

New Abstraction



Revise / Continue Abstraction

Save Current P	Partial Case
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View Last Case Data

Scoring

Export

Abstractor

View Last Case Data Takes you to the final Case Sheet for the most recently completed case.

HOME	Asthma Case Sheet
CASE ID	ACASEID 99999
Birthdate	APatient_Birthdate 5/5/2015
1	ACriteria 2
2	ADischargeDiagnosis 1
3	AEmergencyCare 1
4ai	AED_Arive_date 6/6/2018
4aii	AED_Arive_time 1000
4bi	AED_Admit_date 6/6/2018
4bii	AED_Admit_time 1010
4ci	AED_Disch_Date 6/6/2018
4cii	AED_Disch_Time 2200
4D	AED_Note_time 1010
5a	AED_Exam_alertness 1
5b	AED_Exam_dehydration 2
5c	AED_Exam_wheezing 1
5d	AED_Exam_retractions 2
5e	AED_Exam_aeration 1
6.a	AED_NoSABA 1
7.a	AED_SysCort_outside 2
7 հ	AED SucCort during 2



PRIMES Scoring

Scoring Takes you to the Calculation Results sheet for the selected condition. This sheet has a record Actions New Abstraction of all the cases abstracted in the tool, Measure Calculations only. **Continue Last Abstraction Revise / Continue Abstraction** Calculation results - CAP - Community Score Sheet Save Current Partial Case **Acquired Pneumonia PRIMES** View Last Case Data Selection method 1. Choose one selection method or lea Scoring ᢦ to consider ALL cases 1 Select by Discharge Date to Export Score Sheet button to see results. Abstracto 2 Direct Select Institutio Select **Discharge Date** CASEID PNE 2 Eligible PNE 2 Score PNE 5 Eligible PNE 5 Score PNE 11/15/2018 1804 1 1 1 11/18/2018 5501 0.5 1 1 5502 11/15/2018 1 5503 0.6 11/15/2018 1 5504 0.75

Selection Method 1 – select by discharge date, requires two dates to be entered.

Selection Method 2 – Direct Select, place a mark in the yellow box next to each case you want to see.

Selection Method 3– leave the Selection Method box empty to select all cases on the sheet.

After you've made a selection, click the Score Sheet Button in the upper right.



within 1 week of discharge or given a referral if they lack a PCP

PRIMES Score Sheet

Using direct select of cases. Siz Pne #2 History 4 Children hospitalized with pneumonia, 4 Should have the following history items documented: - P/A prior hospitalizations - 1 Immunization status - P/A recent TB exposure - P/A recent travel - P/A recent antibiotic 1 use Pne #5: Tests (21-60 days) 1 Infants 21-60 days old diagnosed with pneumonia and admitted to the hospital and treated with antibiotics, 5 Should have all the following tests performed: - Blood culture - Urine culture - CBC with differential - Chest radiograph 1 Pne #8: Blood cultures (>60 days) 1 Children >60 days old hospitalized with pneumonia, 5 Should NOT have blood cultures obtained 1	red F	Pneur Score 0.71	nonia	Change parameters Paste in new file
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family travel to a TB-prevalent area,	1	1		
Should have a PPD skin test performed				
			-	
Pne #12: Chest PT 4	4	1		
Children hospitalized with pneumonia,				
Should NOT be treated with chest PT			_	
Pne #18: Follow-up 4				

The Score Sheet displays each measure and gives a brief explanation of what it takes to be eligible and how it is scored. The Sample Size column shows how many cases in the selection were eligible for the measure. Score is the average of the scores from all eligible cases divided by the Sample Size. Change Parameters returns to the Calculation Results sheet, where you can select a different group of cases.



PRIMES Score Sheet – New File

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2		Scoring results - CAP		AutoSave (🛄 🛱 🕆 🖓 🖓 🛱 🗧 🗰 Book1 - Excel McGalliard, Julie 🖪		- • >	
3		Using d	F	File He	me Insert Page Layout Formulas Data Review View Help ${\mathbb Q}$ Tell me what you w	ant to d	do 너 너 Sh	are
4		Pne #2 History		🚬 🔏		sert 👻	Σ • ^A Z • •	
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6		use		Α	в			
7		Pne #5: Tests (21-60 days)	1		Print or save these results			
		Infants 21-60 days old diagnosed with	2		Scoring results - CAP - Community Acquired Pneumonia			
8		treated with antibiotics.			Samr	leS		
		Should have all the following tests pe	3		Using direct select of cases.		Score	
9		differential - Chest radiograph	4		Pne #2 History 4		0.71	
10		Pne #8: Blood cultures (>60 d	5		Children hospitalized with pneumonia,			
11		Children >60 days old hospitalized wit			Should have the following history items documented: - P/A prior hospitalizations -			
12		Should NOT have blood cultures obtai			Immunization status - P/A recent TB exposure - P/A recent travel - P/A recent antibiotic			
13		Pne #10: PPD	7		Pne #5: Tests (21-60 days) 1		1	
		Children hospitalized with pneumoni	8		Infants 21-60 days old diagnosed with pneumonia and admitted to the hospital and treated			
14		family travel to a TB-prevalent area,			Should have all the following tests performed: - Blood culture - Urine culture - CBC with			
15		Should have a PPD skin test performe	9		differential - Chest radiograph			
16		Pne #12: Chest PT	10		Pne #8: Blood cultures (>60 days) 1		1	
17		Children hospitalized with pneumoni	11		Children >60 days old hospitalized with pneumonia,			
18		Should NOT be treated with chest PT						
19		Pne #18: Follow-up	12		Should NOT have blood cultures obtained			
20		All children admitted to the hospital f	13		Pne #10: PPD 1		1	
		Should have parental instruction to co	14		Children hospitalized with pneumonia who have a history of exposure to TB or personal/			
21		within 1 week of discharge or given a						
22			15		Should have a PPD skin test performed			
23			16		Pne #12: Chest PT 4		1	
24			17		Children hospitalized with pneumonia,			
25								
26			18		Should NOT be treated with chest PT			
27			19		Pne #18: Follow-up 4		0.5	
28			20		All children admitted to the hospital for pneumonia and discharged home,			
29					Should have parental instruction to contact the child's PCP (or the hospital care physician)			
30			21		within 1 week of discharge or given a referral if they lack a PCP			-
31				$\leftarrow \rightarrow$	Sheet1 +		Þ	
22								-
4								Þ

The new file can be saved or otherwise modified without affecting the original file.

PRIMES

Actions

- New Abstraction
- **Continue Last Abstraction**
- Revise / Continue Abstraction
- Save Current Partial Case
- View Last Case Data
 - Scoring
- Export

xport path	8 23
Exporting data to:	
Q:\Rita Mangione Smith\PRIN	1ES 2\Phase 3 Mod

Cancel

OK

PRIMES Export

The Export command exports all the cases and scoring data saved in this copy of the tool as CSV files. The default location for the files is a "data" folder under whatever folder the Primes Abstraction Tool Excel Workbook is saved in.

2 Phase 3 Modification of Phase 2 tools date	ta
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Name	Date modified	Туре
🗟 A_calc_20190222.csv	2/22/2019 1:41 PM	Micro
🖺 A_cases_20190222.csv	2/22/2019 1:41 PM	Micro
B_calc_20190222.csv	2/22/2019 1:41 PM	Micro
B_cases_20190222.csv	2/22/2019 1:41 PM	Micro
🔊 C_calc_20190222.csv	2/22/2019 1:41 PM	Micro
🔊 C_cases_20190222.csv	2/22/2019 1:41 PM	Micro
B P_calc_20190222.csv	2/22/2019 1:41 PM	Micro
P_cases_20190222.csv	2/22/2019 1:41 PM	Micro



PRIMES Appendix 1: Debug Mode



The Primes Home sheet has a link to a Help Sheet that displays some of the same information in this document. It also has two buttons: Enter Debug Mode and Exit Debug Mode



DEBUG MODE should only be used for technical support by those familiar with Excel. It will unlock the sheets and reveal all sheet tabs. We do not recommend running real abstractions while in debug mode.

