Copy the following into a Stata do file.

## 1. Data management for adult data

****NOTE: Replace all file names/pathways with appropriate ones as per your own directories/files****
*insheet using "R:\HPIRG\Flu-CATs\Weekly data\adults_20140804.txt", clear

***Converting dates from YMD to MDY
tostring submit_date, gen( submit_date2)
gen submit_date3= date( submit_date2, "YMD")
format submit_date3 %td
drop submit_date2 submit_date
rename submit_date3 submit_date

gen frddate2=date(frddate, "DMY")
drop frddate
rename frddate2 frddate
format frddate %td

gen regdate2=date(regdate, "DMY")
drop regdate
rename regdate2 regdate
format regdate %td

gen utsdate2=date(utsdate, "DMY")
drop utsdate
rename utsdate2 utsdate
format utsdate %td

gen lcdate2=date(lcdate, "DMY")
drop lcdate
rename lcdate2 lcdate
format lcdate %td

gen todate2=date(todate, "DMY")
drop todate
rename todate2 todate
format todate %td

gen deathdate2=date(deathdate, "DMY")
drop deathdate
rename deathdate2 deathdate
format deathdate %td


**Keeping only unique consultations (dropping duplicates)
bys patid submit_date: gen new=_n
keep if new==1
drop new
count


*********************************************************
**gender labelling
label define gender 1 "Male" 2 "Female"
label values gender gender

**data management loops**
**measured/not measured variables**
label define measurements 0 "Not measured" 1 "Measured"
local varlist " temperature respiratoryrate  peripheraloxygensaturation  heartrate bloodpressure"
foreach varname of local varlist {
          encode `varname', gen(`varname'2)
          drop `varname'
          rename `varname'2 `varname'
          recode `varname' 2=0
          label values `varname' measurements

```
}

**measurement values**
local varlist "temperaturevalue respiratoryratevalue  peripheraloxygensaturationvalue  heartratevalue  bloodpressuresystolic
bloodpressurediastolic"

foreach varname of local varlist {
            replace `varname'=" " if  `varname'== "-"
destring `varname', replace

}

**binary categorical (yes/no)**
label define binary_categorical 0 "No" 1 "Yes"
local varlist "patientonoxygen severerespiratorydistress respiratoryexhaustion severedehydration  causingotherclinicalconcern
treatwithantivirals  treatwithantibiotics  refertohospital"

foreach varname of local varlist {
encode `varname', gen( `varname'2)
drop `varname'
rename `varname'2 `varname'
recode `varname' 1=0
recode `varname'  2=1
label values `varname' binary_categorical
}


**capillary refill time: code normal as "0" and refill time>2 secs as "1"**
encode capillaryrefilltime, gen( capillaryrefilltime2)
drop  capillaryrefilltime
rename  capillaryrefilltime2  capillaryrefilltime
recode  capillaryrefilltime 1=0
recode  capillaryrefilltime 2=1
label define capillaryrefilltime 0 "Grossly normal" 1 "sternal capillary refill>2 secs"
label values capillaryrefilltime capillaryrefilltime

**patientoxygenvalue: this will show as blank if the previous field 'patientoxygen' was answered as "no"**
encode  patientonoxygenvalue, gen(patientonoxygenvalue2)
drop patientonoxygenvalue
rename patientonoxygenvalue2 patientonoxygenvalue
**check these recode values carefully in new files as current file does not have any 'yes'**
recode patientonoxygenvalue 1=9
recode patientonoxygenvalue 2=0
recode patientonoxygenvalue 3=1
label define patientoxygenvalue 9 "Not applicable" 0 "No" 1 "Yes", replace
label values patientonoxygenvalue patientoxygenvalue


**newalteredconsciouslevel **
encode newalteredconsciouslevel , gen(newalteredconsciouslevel2)
drop newalteredconsciouslevel
rename newalteredconsciouslevel2 newalteredconsciouslevel
**Check coding before doing below
recode newalteredconsciouslevel 2=0
label define newalteredconsciousness 0 "No, patient alert" 1 "Confused/agitated" 2 "Responsive to voice only" 3 "Responsive to pain
only/unconscious", replace
label values newalteredconsciouslevel newalteredconsciousness


**socialisolation**
encode socialisolation, gen(socialisolation2)
drop socialisolation
rename socialisolation2 socialisolation
**check codes in new files**
recode socialisolation 1=0
recode socialisolation 3=1
**keep 'unknown' as "2"**
label define socialisolation 0 "No" 1 "Yes" 2 "Unknown"
label values socialisolation socialisolation
```

```
**performance status**
encode performancestatus, gen(performancestatus2)
drop performancestatus
rename performancestatus2 performancestatus
**check codes in new file**

**derivation of values based CATs criteria**
gen CAT_triage_A= severerespiratorydistress
label variable CAT_triage_A `"CAT triage criteria A- severe respiratory distress (yes/no)"'
label values CAT_triage_A  binary_categorical

gen CAT_triage_B= .
replace CAT_triage_B= 1 if respiratoryratevalue>30 & respiratoryratevalue !=.
replace CAT_triage_B=0 if respiratoryratevalue<=30
label variable CAT_triage_B `"CAT triage criteria B (resp rate>30 breaths/min)- yes/no"'
label values CAT_triage_B  binary_categorical

gen CAT_triage_C=.
replace CAT_triage_C=1 if  peripheraloxygensaturationvalue<=92 &  peripheraloxygensaturationvalue !=.
replace CAT_triage_C=0 if peripheraloxygensaturationvalue>92
label variable CAT_triage_C `"CAT triage criteria C (peripheral oxygen <=92%)- yes/no"'
label values CAT_triage_C  binary_categorical

gen CAT_triage_D=respiratoryexhaustion
label variable CAT_triage_D `"CAT triage criteria D- respiratory exhaustion (yes/no)"'
label values CAT_triage_D  binary_categorical

gen CAT_triage_E=.
replace CAT_triage_E=1 if capillaryrefilltime==1
replace CAT_triage_E=1 if bloodpressuresystolic<90
replace CAT_triage_E=1 if bloodpressurediastolic<60
replace CAT_triage_E=1 if severedehydration==1
recode CAT_triage_E .=0
label variable CAT_triage_E `"CAT triage criteria E (severe clinical dehydration)- yes/no"'
label values CAT_triage_E  binary_categorical

gen CAT_triage_F=.
replace CAT_triage_F=0 if newalteredconsciouslevel==0
recode CAT_triage_F .=1
label variable CAT_triage_F `"CAT triage criteria E (new altered conscious level)- yes/no"'
label values CAT_triage_F  binary_categorical

gen CAT_triage_G= causingotherclinicalconcern
label variable CAT_triage_G `"CAT triage criteria G, causing other clinical concern (yes/no)"'
label values CAT_triage_G  binary_categorical


*create variable labels**
label variable patid `"unique patient identifier"'
label variable pracid `"practice id"'
label variable submit_date `"presentation date"'
label variable temperature `"temperature measurement (measured/not measured)"'
label variable temperaturevalue `"temperature value in celsius; range allowed (35.0-42.0)"'
label variable severerespiratorydistress `"CAT triage criteria A- severe respiratory distress (yes/no)"'
label variable respiratoryexhaustion `"CAT triage criteria D- respiratory exhaustion (yes/no)"'
label variable respiratoryrate `"respiratory rate (measured/not measured)"'
label variable respiratoryratevalue `"respiratory rate- breaths per minute; range allowed (15-120)"'
label variable patientonoxygen `"patient on oxygen (yes/no)"'
label variable patientonoxygenvalue `"new oxygen need (yes/no)"'
label variable peripheraloxygensaturation `"peripheral oxygen value (measured/not measured)"'
label variable peripheraloxygensaturationvalue `"peripheral oxygen saturation (%); range allowed (70-100)"'
label variable heartrate `"heart rate (measured/not measured)"'
label variable heartratevalue `"heart rate value (beats per minute); range allowed (40-200)"'
label variable bloodpressure `"blood pressure (measured/not measured)"'
label variable bloodpressuresystolic `"systolic blood pressure (mmHg); range allowed (70-250)"'
label variable bloodpressurediastolic `"diastolic blood pressure (mmHg); range allowed (40-150)"'
label variable capillaryrefilltime `"sternal capillary refill time: 1 if >2 seconds; 0= grossly normal"'
label variable severedehydration `"severe dehydration (yes/no)"'
label variable newalteredconsciouslevel `"new altered consciousness level (alert; confused/agitated; voice; pain/unconscious)"'
label variable socialisolation `"lives alone or no fixed abode (yes/no/unknown)"'
label variable treatwithantivirals `"decision to treat with antivirals (yes/no)"'
```

```
label variable treatwithantibiotics `"decision to treat with antibiotics (yes/no)"'
label variable performancestatus `"activity and ability to self care (categorical variable)"'
label variable causingotherclinicalconcern `"CAT triage criteria G, causing other clinical concern (yes/no)"'
label variable causingotherclinicalconcernvalue `"nature of clinical concern, free text"'
label variable refertohospital `"decision to refer to hospital (yes/no)"'




order patid pracid formid gender birthyear submit_date temperature temperaturevalue severerespiratorydistress respiratoryexhaustion
respiratoryrate respiratoryratevalue patientonoxygen patientonoxygenvalue peripheraloxygensaturation peripheraloxygensaturationvalue
heartrate heartratevalue bloodpressure bloodpressuresystolic bloodpressurediastolic capillaryrefilltime severedehydration
newalteredconsciouslevel socialisolation performancestatus causingotherclinicalconcern causingotherclinicalconcernvalue
treatwithantivirals treatwithantibiotics refertohospital  CAT_triage_A CAT_triage_B CAT_triage_C CAT_triage_D CAT_triage_E
CAT_triage_F CAT_triage_G


*************************************************

**descriptive analysis**

local varlist " temperature respiratoryrate  peripheraloxygensaturation  heartrate bloodpressure"
foreach varname of local varlist {
                        tab `varname'
}


local varlist "temperaturevalue respiratoryratevalue  peripheraloxygensaturationvalue  heartratevalue  bloodpressuresystolic
bloodpressurediastolic"

foreach varname of local varlist {
            summ `varname', detail

}

local varlist "patientonoxygen severerespiratorydistress severedehydration  causingotherclinicalconcern  treatwithantivirals
treatwithantibiotics  refertohospital"

foreach varname of local varlist {
tab `varname'
}



tab CAT_triage_A, m
tab CAT_triage_B, m
tab CAT_triage_C, m
tab CAT_triage_D, m
tab CAT_triage_E, m
tab CAT_triage_F, m
tab CAT_triage_G, m
tab capillaryrefilltime, m
tab patientonoxygenvalue
tab newalteredconsciouslevel
tab socialisolation
tab performancestatus

**association between CATs criteria and treatment/referral decisions**

local varlist " CAT_triage_A CAT_triage_B CAT_triage_C CAT_triage_D CAT_triage_E CAT_triage_F CAT_triage_G"

foreach varname of local varlist {
            tab `varname' treatwithantivirals, col chi
            logit treatwithantivirals `varname', or
}

logit treatwithantivirals  CAT_triage_A CAT_triage_B CAT_triage_C CAT_triage_D CAT_triage_E CAT_triage_F CAT_triage_G, or


local varlist " CAT_triage_A CAT_triage_B CAT_triage_C CAT_triage_D CAT_triage_E CAT_triage_F CAT_triage_G"
foreach varname of local varlist {
            tab `varname'  treatwithantibiotics, col chi
```

```
                logit  treatwithantibiotics `varname', or
}


logit treatwithantibiotics  CAT_triage_A CAT_triage_B CAT_triage_C CAT_triage_D CAT_triage_E CAT_triage_F CAT_triage_G, or

local varlist " CAT_triage_A CAT_triage_B CAT_triage_C CAT_triage_D CAT_triage_E CAT_triage_F CAT_triage_G"
foreach varname of local varlist {
                tab `varname'   refertohospital, col chi
                logit   refertohospital `varname', or
}

logit refertohospital  CAT_triage_A CAT_triage_B CAT_triage_C CAT_triage_D CAT_triage_E CAT_triage_F CAT_triage_G, or
```

## 2. Data management for children's data

```
****NOTE: Replace all file names/pathways with appropriate ones as per your own directories/files****
*insheet using "R:\HPIRG\Flu-CATs\Weekly data\child_20140804.txt", clear

tostring submit_date, gen( submit_date2)
gen submit_date3= date( submit_date2, "YMD")
format submit_date3 %td
drop submit_date2 submit_date
rename submit_date3 submit_date

gen frddate2=date(frddate, "DMY")
drop frddate
rename frddate2 frddate
format frddate %td

gen regdate2=date(regdate, "DMY")
drop regdate
rename regdate2 regdate
format regdate %td

gen utsdate2=date(utsdate, "DMY")
drop utsdate
rename utsdate2 utsdate
format utsdate %td

gen lcdate2=date(lcdate, "DMY")
drop lcdate
rename lcdate2 lcdate
format lcdate %td

gen todate2=date(todate, "DMY")
drop todate
rename todate2 todate
format todate %td

gen deathdate2=date(deathdate, "DMY")
drop deathdate
rename deathdate2 deathdate
format deathdate %td

set more off

**Keeping only unique consultations (dropping duplicates)
bys patid submit_date: gen new=_n
keep if new==1
drop new
count

************************************************************
**gender labelling
label define gender 1 "Male" 2 "Female"
label values gender gender

**data management loops**
```

```
**measured/not measured variables**
label define measurements 0 "Not measured" 1 "Measured"
local varlist " temperature respiratoryrate  peripheraloxygensaturation  heartrate"
foreach varname of local varlist {
            encode `varname', gen(`varname'2)
            drop `varname'
            rename `varname'2 `varname'
            recode `varname' 2=0
            label values `varname' measurements

}

**measurement values**
local varlist "temperaturevalue respiratoryratevalue  peripheraloxygensaturationvalue  heartratevalue"

foreach varname of local varlist {
            replace `varname'=" " if  `varname'== "-"
destring `varname', replace

}

**binary categorical (yes/no)**
label define binary_categorical 0 "No" 1 "Yes"
local varlist "patientonoxygen severerespiratorydistress respiratoryexhaustion severedehydration  causingotherclinicalconcern
treatwithantivirals  treatwithantibiotics  refertohospital"

foreach varname of local varlist {
encode `varname', gen( `varname'2)
drop `varname'
rename `varname'2 `varname'
recode `varname' 1=0
recode `varname'  2=1
label values `varname' binary_categorical
}


**capillary refill time: code normal as "0" and refill time>2 secs as "1"**
encode capillaryrefilltime, gen( capillaryrefilltime2)
drop  capillaryrefilltime
rename  capillaryrefilltime2  capillaryrefilltime
recode  capillaryrefilltime 1=0
recode  capillaryrefilltime 2=1
label define capillaryrefilltime 0 "Grossly normal" 1 "sternal capillary refill>2 secs"
label values capillaryrefilltime capillaryrefilltime

**patientoxygenvalue: this will show as blank if the previous field 'patientoxygen' was answered as "no"**
encode  patientonoxygenvalue, gen(patientonoxygenvalue2)
drop patientonoxygenvalue
rename patientonoxygenvalue2 patientonoxygenvalue
**check these recode values carefully in new files as current file does not have any 'yes'**
recode patientonoxygenvalue 1=9
recode patientonoxygenvalue 2=0
recode patientonoxygenvalue 3=1
label define patientoxygenvalue 9 "Not applicable" 0 "No" 1 "Yes", replace
label values patientonoxygenvalue patientoxygenvalue


**newalteredconsciouslevel **
encode newalteredconsciouslevel , gen(newalteredconsciouslevel2)
drop newalteredconsciouslevel
rename newalteredconsciouslevel2 newalteredconsciouslevel
**check these recode values carefully in new files as current file does not have any values other than 'no'**
recode newalteredconsciouslevel 1=0
label define newalteredconsciousness 0 "No" 1 "Strikingly agitated, irritable, new seizures or floppy infant"
label values newalteredconsciouslevel newalteredconsciousness


**derivation of values based CATs criteria**
gen CAT_triage_A= severerespiratorydistress
label variable CAT_triage_A `'"CAT triage criteria A- severe respiratory distress (yes/no)"'
label values CAT_triage_A  binary_categorical
```

```
gen CAT_triage_B= .
replace CAT_triage_B= 1 if respiratoryratevalue>=40 & respiratoryratevalue !=.
replace CAT_triage_B=0 if respiratoryratevalue<40
label variable CAT_triage_B `"CAT triage criteria B (increased resp rate)- yes/no"'
label values CAT_triage_B  binary_categorical

**note: need child's age to work out criteria B; the codes above only represent children aged 1 year and above; for children younger than
a year, use threshold of >=50 to indicate presence of criteria**
**replace CAT_triage_B=0 if respiratoryratevalue<=50 & age<1**

gen CAT_triage_C=.
replace CAT_triage_C=1 if  peripheraloxygensaturationvalue<=92 &  peripheraloxygensaturationvalue !=.
replace CAT_triage_C=0 if peripheraloxygensaturationvalue>92
label variable CAT_triage_C `"CAT triage criteria C (peripheral oxygen <=92%)- yes/no"'
label values CAT_triage_C  binary_categorical

gen CAT_triage_D=respiratoryexhaustion
label variable CAT_triage_D `"CAT triage criteria D- respiratory exhaustion (yes/no)"'
label values CAT_triage_D  binary_categorical

gen CAT_triage_E=.
replace CAT_triage_E=1 if capillaryrefilltime==1
replace CAT_triage_E=1 if severedehydration==1
recode CAT_triage_E .=0
label variable CAT_triage_E `"CAT triage criteria E (severe clinical dehydration)- yes/no"'
label values CAT_triage_E  binary_categorical

gen CAT_triage_F=.
replace CAT_triage_F=1 if newalteredconsciouslevel==1
recode CAT_triage_F .=0
label variable CAT_triage_F `"CAT triage criteria E (new altered conscious level)- yes/no"'
label values CAT_triage_F  binary_categorical

gen CAT_triage_G= causingotherclinicalconcern
label variable CAT_triage_G `"CAT triage criteria G, causing other clinical concern (yes/no)"'
label values CAT_triage_G  binary_categorical


*create variable labels**
label variable patid `"unique patient identifier"'
label variable pracid `"practice id"'
label variable submit_date `"presentation date"'
label variable temperature `"temperature measurement (measured/not measured)"'
label variable temperaturevalue `"temperature value in celsius; range allowed (35.0-42.0)"'
label variable severerespiratorydistress `"CAT triage criteria A- severe respiratory distress (yes/no)"'
label variable respiratoryexhaustion `"CAT triage criteria D- respiratory exhaustion (yes/no)"'
label variable respiratoryrate `"respiratory rate (measured/not measured)"'
label variable respiratoryratevalue `"respiratory rate- breaths per minute; range allowed (10-100)"'
label variable patientonoxygen `"patient on oxygen (yes/no)"'
label variable patientonoxygenvalue `"new oxygen need (yes/no)"'
label variable peripheraloxygensaturation `"peripheral oxygen value (measured/not measured)"'
label variable peripheraloxygensaturationvalue `"peripheral oxygen saturation (%); range allowed (70-100)"'
label variable heartrate `"heart rate (measured/not measured)"'
label variable heartratevalue `"heart rate value (beats per minute); range allowed (50-200)"'
label variable capillaryrefilltime `"sternal capillary refill time: 1 if >2 seconds; 0= grossly normal"'
label variable severedehydration `"severe dehydration (yes/no)"'
label variable newalteredconsciouslevel `"new altered consciousness level (yes/no)"'
label variable treatwithantivirals `"decision to treat with antivirals (yes/no)"'
label variable treatwithantibiotics `"decision to treat with antibiotics (yes/no)"'
label variable causingotherclinicalconcern `"CAT triage criteria G, causing other clinical concern (yes/no)"'
label variable causingotherclinicalconcernvalue `"nature of clinical concern, free text"'
label variable refertohospital `"decision to refer to hospital (yes/no)"'

order patid pracid formid gender birthyear submit_date temperature temperaturevalue severerespiratorydistress respiratoryexhaustion
respiratoryrate respiratoryratevalue patientonoxygen patientonoxygenvalue peripheraloxygensaturation peripheraloxygensaturationvalue
heartrate heartratevalue capillaryrefilltime severedehydration newalteredconsciouslevel causingotherclinicalconcern
causingotherclinicalconcernvalue treatwithantivirals treatwithantibiotics refertohospital  CAT_triage_A CAT_triage_B CAT_triage_C
CAT_triage_D CAT_triage_E CAT_triage_F CAT_triage_G

**descriptive analysis**
```

```
local varlist " temperature respiratoryrate  peripheraloxygensaturation  heartrate"
foreach varname of local varlist {
                              tab `varname'
}


local varlist "temperaturevalue respiratoryratevalue  peripheraloxygensaturationvalue  heartratevalue "

foreach varname of local varlist {
            summ `varname', detail

}

local varlist "patientonoxygen severerespiratorydistress severedehydration  causingotherclinicalconcern  treatwithantivirals
treatwithantibiotics  refertohospital"

foreach varname of local varlist {
tab `varname'
}



tab CAT_triage_A, m
tab CAT_triage_B, m
tab CAT_triage_C, m
tab CAT_triage_D, m
tab CAT_triage_E, m
tab CAT_triage_F, m
tab CAT_triage_G, m
tab capillaryrefilltime, m
tab patientonoxygenvalue
tab newalteredconsciouslevel
```

**association between CATs criteria and treatment/referral decisions**

```
local varlist " CAT_triage_A CAT_triage_B CAT_triage_C CAT_triage_D CAT_triage_E CAT_triage_F CAT_triage_G"

foreach varname of local varlist {
            tab `varname' treatwithantivirals, col chi
            logit treatwithantivirals `varname', or
}

logit treatwithantivirals  CAT_triage_A CAT_triage_B CAT_triage_C CAT_triage_D CAT_triage_E CAT_triage_F CAT_triage_G, or


local varlist " CAT_triage_A CAT_triage_B CAT_triage_C CAT_triage_D CAT_triage_E CAT_triage_F CAT_triage_G"
foreach varname of local varlist {
            tab `varname'  treatwithantibiotics, col chi
            logit  treatwithantibiotics `varname', or
}

logit treatwithantibiotics  CAT_triage_A CAT_triage_B CAT_triage_C CAT_triage_D CAT_triage_E CAT_triage_F CAT_triage_G, or

local varlist " CAT_triage_A CAT_triage_B CAT_triage_C CAT_triage_D CAT_triage_E CAT_triage_F CAT_triage_G"
foreach varname of local varlist {
            tab `varname'  refertohospital, col chi
            logit   refertohospital `varname', or
}

logit refertohospital  CAT_triage_A CAT_triage_B CAT_triage_C CAT_triage_D CAT_triage_E CAT_triage_F CAT_triage_G, or
```

## 3. Weekly reports for adult data

```
clear
*** NOTE: Ensure that the directory mentioned below is the directory containing the CLEANED weekly adult/children data files.
//The results spreadsheet will be saved within this directory.
global path = "R:\HPIRG\Flu-CATs\Last Tranche\Weekly\"
cd "$path"
use adults_20150413_clean.dta //
//NOTE: The name of the source file may need to be modified. The source file will need to be a cleaned version of the weekly data file.
//This do-file will have to be run separately for adult and for children data.


****************************************************
** EXPORTING FREQUENCIES OF EACH CATs CRITERION INTO EXCEL
**labelling missing values in CAT_triage_B as 9 so that they may be displayed in the spreadsheet
recode CAT_triage_B .=9
label define yesnomissing 0 "No" 1 "Yes" 9 "Missing"
label value CAT_triage_B yesnomissing

putexcel A1=("NIHR Flu-CATs Weekly Report: dd/mm/YYYY") using results, sheet("CATs criteria") replace //Insert the correct date in place of "dd/mm/YYYY"
putexcel G1=("Data Source: Clinical Practice Research Datalink- Participating GP Practices") using results, sheet("CATs criteria") modify
putexcel A3=("This spreadsheet contains three worksheets- 'CATs criteria' (frequencies of each of the 7 CATs criteria), 'Clinical data' (other clinical data collected through the LEPIS form)") using results, sheet("CATs criteria") modify
putexcel A4=("and 'Analyses' (results of logistic regression analyses).") using results, sheet("CATs criteria") modify
tabulate CAT_triage_A, matcell(freq) matrow(names)

local rows = rowsof(names)
local row = 7
local cum_percent = 0
***CATs criterion A
tabulate CAT_triage_A, m matcell(freq) matrow(names)
putexcel A6=("CATs A") B6=("Freq.") C6=("Percent") D6=("Cum.") using results, sheet("CATs criteria") modify
 forvalues i = 1/`rows' {
      local val = names[`i',1]
      local val_lab : label (CAT_triage_A) `val'
      local freq_val = freq[`i',1]
      local percent_val = `freq_val'/`r(N)'*100
      local percent_val : display %9.2f `percent_val'
      local cum_percent : display %9.2f (`cum_percent' + `percent_val')
      putexcel A`row'=("`val_lab'") B`row'=(`freq_val') C`row'=(`percent_val') ///
            D`row'=(`cum_percent') using results, sheet("CATs criteria") modify
      local row = `row' + 1
}

putexcel A`row'=("Total") B`row'=(r(N)) C`row'=(100.00) using results, sheet("CATs criteria") modify

***CATs criterion B
tabulate CAT_triage_B, matcell(freq) matrow(names)
local rows = rowsof(names)
local row = 12
local cum_percent = 0
tabulate CAT_triage_B, matcell(freq) matrow(names)
putexcel A11=("CATs B") B11=("Freq.") C11=("Percent") D11=("Cum.") using results, sheet("CATs criteria") modify
 forvalues i = 1/`rows' {
      local val = names[`i',1]
      local val_lab : label (CAT_triage_B) `val'
      local freq_val = freq[`i',1]
      local percent_val = `freq_val'/`r(N)'*100
      local percent_val : display %9.2f `percent_val'
      local cum_percent : display %9.2f (`cum_percent' + `percent_val')
      putexcel A`row'=("`val_lab'") B`row'=(`freq_val') C`row'=(`percent_val') ///
            D`row'=(`cum_percent') using results, sheet("CATs criteria") modify
      local row = `row' + 1
}

putexcel A`row'=("Total") B`row'=(r(N)) C`row'=(100.00) using results, sheet("CATs criteria") modify

***CATs criterion C
tabulate CAT_triage_C, matcell(freq) matrow(names)
local rows = rowsof(names)
```

```
    local row = 18
    local cum_percent = 0
    tabulate CAT_triage_C, matcell(freq) matrow(names)
    putexcel A17=("CATs C") B17=("Freq.") C17=("Percent") D17=("Cum.") using results, sheet("CATs criteria") modify
     forvalues i = 1/`rows' {
         local val = names[`i',1]
         local val_lab : label (CAT_triage_B) `val'
         local freq_val = freq[`i',1]
         local percent_val = `freq_val'/`r(N)'*100
         local percent_val : display %9.2f `percent_val'
         local cum_percent : display %9.2f (`cum_percent' + `percent_val')
         putexcel A`row'=("`val_lab'") B`row'=(`freq_val') C`row'=(`percent_val') ///
             D`row'=(`cum_percent') using results, sheet("CATs criteria") modify
         local row = `row' + 1
    }

    putexcel A`row'=("Total") B`row'=(r(N)) C`row'=(100.00) using results, sheet("CATs criteria") modify

    ***CATs criterion D
    tabulate CAT_triage_D, matcell(freq) matrow(names)
    local rows = rowsof(names)
    local row = 23
    local cum_percent = 0
    tabulate CAT_triage_D, matcell(freq) matrow(names)
    putexcel A22=("CATs D") B22=("Freq.") C22=("Percent") D22=("Cum.") using results, sheet("CATs criteria") modify
     forvalues i = 1/`rows' {
         local val = names[`i',1]
         local val_lab : label (CAT_triage_B) `val'
         local freq_val = freq[`i',1]
         local percent_val = `freq_val'/`r(N)'*100
         local percent_val : display %9.2f `percent_val'
         local cum_percent : display %9.2f (`cum_percent' + `percent_val')
         putexcel A`row'=("`val_lab'") B`row'=(`freq_val') C`row'=(`percent_val') ///
             D`row'=(`cum_percent') using results, sheet("CATs criteria") modify
         local row = `row' + 1
    }

    putexcel A`row'=("Total") B`row'=(r(N)) C`row'=(100.00) using results, sheet("CATs criteria") modify

    ***CATs criterion E
    tabulate CAT_triage_E, matcell(freq) matrow(names)
    local rows = rowsof(names)
    local row = 28
    local cum_percent = 0
    tabulate CAT_triage_E, matcell(freq) matrow(names)
    putexcel A26=("CATs E") B26=("Freq.") C26=("Percent") D26=("Cum.") using results, sheet("CATs criteria") modify
     forvalues i = 1/`rows' {
         local val = names[`i',1]
         local val_lab : label (CAT_triage_B) `val'
         local freq_val = freq[`i',1]
         local percent_val = `freq_val'/`r(N)'*100
         local percent_val : display %9.2f `percent_val'
         local cum_percent : display %9.2f (`cum_percent' + `percent_val')
         putexcel A`row'=("`val_lab'") B`row'=(`freq_val') C`row'=(`percent_val') ///
             D`row'=(`cum_percent') using results, sheet("CATs criteria") modify
         local row = `row' + 1
    }

    putexcel A`row'=("Total") B`row'=(r(N)) C`row'=(100.00) using results, sheet("CATs criteria") modify

    ***CATs criterion F
    tabulate CAT_triage_F, matcell(freq) matrow(names)
    local rows = rowsof(names)
    local row = 33
    local cum_percent = 0
    tabulate CAT_triage_F, matcell(freq) matrow(names)
    putexcel A32=("CATs F") B32=("Freq.") C32=("Percent") D32=("Cum.") using results, sheet("CATs criteria") modify
     forvalues i = 1/`rows' {
         local val = names[`i',1]
         local val_lab : label (CAT_triage_B) `val'
         local freq_val = freq[`i',1]
```

```
        local percent_val = `freq_val'/`r(N)'*100
        local percent_val : display %9.2f `percent_val'
        local cum_percent : display %9.2f (`cum_percent' + `percent_val')
        putexcel A`row'=("`val_lab'") B`row'=(`freq_val') C`row'=(`percent_val') ///
            D`row'=(`cum_percent') using results, sheet("CATs criteria") modify
        local row = `row' + 1
}

putexcel A`row'=("Total") B`row'=(r(N)) C`row'=(100.00) using results, sheet("CATs criteria") modify

***CATs criterion G
tabulate CAT_triage_G, matcell(freq) matrow(names)
local rows = rowsof(names)
local row = 38
local cum_percent = 0
tabulate CAT_triage_G, matcell(freq) matrow(names)
putexcel A37=("CATs G") B37=("Freq.") C37=("Percent") D37=("Cum.") using results, sheet("CATs criteria") modify
 forvalues i = 1/`rows' {
        local val = names[`i',1]
        local val_lab : label (CAT_triage_B) `val'
        local freq_val = freq[`i',1]
        local percent_val = `freq_val'/`r(N)'*100
        local percent_val : display %9.2f `percent_val'
        local cum_percent : display %9.2f (`cum_percent' + `percent_val')
        putexcel A`row'=("`val_lab'") B`row'=(`freq_val') C`row'=(`percent_val') ///
            D`row'=(`cum_percent') using results, sheet("CATs criteria") modify
        local row = `row' + 1
}

putexcel A`row'=("Total") B`row'=(r(N)) C`row'=(100.00) using results, sheet("CATs criteria") modify

***************************************************
**EXPORTING "Measure/Not measured" STATUS OF DIFFERENT CLINICAL MEASURES ON THE LEPIS FORM
putexcel A1=("'Clinical data' (other clinical data collected through the LEPIS form)") using results, sheet("Clinical data") modify


**recoding errors in coding temperature
recode temperature 3=0 4=0
***Temperature
tabulate temperature, matcell(freq) matrow(names)
local rows = rowsof(names)
local row = 5
local cum_percent = 0
tabulate temperature, matcell(freq) matrow(names)
putexcel A4=("Temperature") B4=("Freq.") C4=("Percent") D4=("Cum.") using results, sheet("Clinical data") modify
 forvalues i = 1/`rows' {
        local val = names[`i',1]
        local val_lab : label (temperature) `val'
        local freq_val = freq[`i',1]
        local percent_val = `freq_val'/`r(N)'*100
        local percent_val : display %9.2f `percent_val'
        local cum_percent : display %9.2f (`cum_percent' + `percent_val')
        putexcel A`row'=("`val_lab'") B`row'=(`freq_val') C`row'=(`percent_val') ///
            D`row'=(`cum_percent') using results, sheet("Clinical data") modify
        local row = `row' + 1
}

putexcel A`row'=("Total") B`row'=(r(N)) C`row'=(100.00) using results, sheet("Clinical data") modify

**recoding errors in coding respiratoryrate
recode respiratoryrate 3=0 4=0
***Respiratory rate
tabulate respiratoryrate, matcell(freq) matrow(names)
local rows = rowsof(names)
local row = 10
local cum_percent = 0
tabulate respiratoryrate, matcell(freq) matrow(names)
putexcel A9=("Respiratory rate") B9=("Freq.") C9=("Percent") D9=("Cum.") using results, sheet("Clinical data") modify
 forvalues i = 1/`rows' {
        local val = names[`i',1]
        local val_lab : label (respiratoryrate) `val'
```

```stata
        local freq_val = freq[`i',1]
        local percent_val = `freq_val'/`r(N)'*100
        local percent_val : display %9.2f `percent_val'
        local cum_percent : display %9.2f (`cum_percent' + `percent_val')
        putexcel A`row'=("`val_lab'") B`row'=(`freq_val') C`row'=(`percent_val') ///
            D`row'=(`cum_percent') using results, sheet("Clinical data") modify
        local row = `row' + 1
}

putexcel A`row'=("Total") B`row'=(r(N)) C`row'=(100.00) using results, sheet("Clinical data") modify

**recoding errors in coding peripheraloxygensaturation
recode peripheraloxygensaturation 3=0 4=0
***Peripheral Oxygen Saturation
tabulate peripheraloxygensaturation, matcell(freq) matrow(names)
local rows = rowsof(names)
local row = 15
local cum_percent = 0
tabulate peripheraloxygensaturation, matcell(freq) matrow(names)
putexcel A14=("Peripheral Oxygen Saturation") B14=("Freq.") C14=("Percent") D14=("Cum.") using results, sheet("Clinical data") modify
 forvalues i = 1/`rows' {
        local val = names[`i',1]
        local val_lab : label (peripheraloxygensaturation) `val'
        local freq_val = freq[`i',1]
        local percent_val = `freq_val'/`r(N)'*100
        local percent_val : display %9.2f `percent_val'
        local cum_percent : display %9.2f (`cum_percent' + `percent_val')
        putexcel A`row'=("`val_lab'") B`row'=(`freq_val') C`row'=(`percent_val') ///
            D`row'=(`cum_percent') using results, sheet("Clinical data") modify
        local row = `row' + 1
}

putexcel A`row'=("Total") B`row'=(r(N)) C`row'=(100.00) using results, sheet("Clinical data") modify

**recoding errors in coding heartrate
recode heartrate 3=0 4=0
***Heart Rate
tabulate heartrate, matcell(freq) matrow(names)
local rows = rowsof(names)
local row = 20
local cum_percent = 0
tabulate heartrate, matcell(freq) matrow(names)
putexcel A19=("Heart Rate") B19=("Freq.") C19=("Percent") D19=("Cum.") using results, sheet("Clinical data") modify
 forvalues i = 1/`rows' {
        local val = names[`i',1]
        local val_lab : label (heartrate) `val'
        local freq_val = freq[`i',1]
        local percent_val = `freq_val'/`r(N)'*100
        local percent_val : display %9.2f `percent_val'
        local cum_percent : display %9.2f (`cum_percent' + `percent_val')
        putexcel A`row'=("`val_lab'") B`row'=(`freq_val') C`row'=(`percent_val') ///
            D`row'=(`cum_percent') using results, sheet("Clinical data") modify
        local row = `row' + 1
}

putexcel A`row'=("Total") B`row'=(r(N)) C`row'=(100.00) using results, sheet("Clinical data") modify

**recoding errors in coding bloodpressure
recode bloodpressure 3=0 4=0
***Blood Pressure
tabulate bloodpressure, matcell(freq) matrow(names)
local rows = rowsof(names)
local row = 25
local cum_percent = 0
tabulate bloodpressure, matcell(freq) matrow(names)
putexcel A24=("Blood Pressure") B24=("Freq.") C24=("Percent") D24=("Cum.") using results, sheet("Clinical data") modify
 forvalues i = 1/`rows' {
        local val = names[`i',1]
        local val_lab : label (bloodpressure) `val'
        local freq_val = freq[`i',1]
        local percent_val = `freq_val'/`r(N)'*100
```

```stata
        local percent_val : display %9.2f `percent_val'
        local cum_percent : display %9.2f (`cum_percent' + `percent_val')
        putexcel A`row'=("`val_lab'") B`row'=(`freq_val') C`row'=(`percent_val') ///
            D`row'=(`cum_percent') using results, sheet("Clinical data") modify
        local row = `row' + 1
}

putexcel A`row'=("Total") B`row'=(r(N)) C`row'=(100.00) using results, sheet("Clinical data") modify

**recoding errors in coding severedehydration
recode severedehydration 3=0 4=0
***Severe Dehydration
tabulate severedehydration, matcell(freq) matrow(names)
local rows = rowsof(names)
local row = 30
local cum_percent = 0
tabulate severedehydration, matcell(freq) matrow(names)
putexcel A29=("Severe Dehydration") B29=("Freq.") C29=("Percent") D29=("Cum.") using results, sheet("Clinical data") modify
 forvalues i = 1/`rows' {
        local val = names[`i',1]
        local val_lab : label (severedehydration) `val'
        local freq_val = freq[`i',1]
        local percent_val = `freq_val'/`r(N)'*100
        local percent_val : display %9.2f `percent_val'
        local cum_percent : display %9.2f (`cum_percent' + `percent_val')
        putexcel A`row'=("`val_lab'") B`row'=(`freq_val') C`row'=(`percent_val') ///
            D`row'=(`cum_percent') using results, sheet("Clinical data") modify
        local row = `row' + 1
}

putexcel A`row'=("Total") B`row'=(r(N)) C`row'=(100.00) using results, sheet("Clinical data") modify

***New altered conscious level
tabulate newalteredconsciouslevel, matcell(freq) matrow(names)
local rows = rowsof(names)
local row = 35
local cum_percent = 0
tabulate newalteredconsciouslevel, matcell(freq) matrow(names)
putexcel A34=("New altered consciousness level") B34=("Freq.") C34=("Percent") D34=("Cum.") using results, sheet("Clinical data") modify
 forvalues i = 1/`rows' {
        local val = names[`i',1]
        local val_lab : label (newalteredconsciouslevel) `val'
        local freq_val = freq[`i',1]
        local percent_val = `freq_val'/`r(N)'*100
        local percent_val : display %9.2f `percent_val'
        local cum_percent : display %9.2f (`cum_percent' + `percent_val')
        putexcel A`row'=("`val_lab'") B`row'=(`freq_val') C`row'=(`percent_val') ///
            D`row'=(`cum_percent') using results, sheet("Clinical data") modify
        local row = `row' + 1
}

putexcel A`row'=("Total") B`row'=(r(N)) C`row'=(100.00) using results, sheet("Clinical data") modify

***Social Isolation
tabulate socialisolation, matcell(freq) matrow(names)
local rows = rowsof(names)
local row = 40
local cum_percent = 0
tabulate socialisolation, matcell(freq) matrow(names)
putexcel A39=("Social Isolation") B39=("Freq.") C39=("Percent") D39=("Cum.") using results, sheet("Clinical data") modify
 forvalues i = 1/`rows' {
        local val = names[`i',1]
        local val_lab : label (socialisolation) `val'
        local freq_val = freq[`i',1]
        local percent_val = `freq_val'/`r(N)'*100
        local percent_val : display %9.2f `percent_val'
        local cum_percent : display %9.2f (`cum_percent' + `percent_val')
        putexcel A`row'=("`val_lab'") B`row'=(`freq_val') C`row'=(`percent_val') ///
            D`row'=(`cum_percent') using results, sheet("Clinical data") modify
        local row = `row' + 1
}
```

```
putexcel A`row'=("Total") B`row'=(r(N)) C`row'=(100.00) using results, sheet("Clinical data") modify


***Ability to self-care
tabulate performancestatus, matcell(freq) matrow(names)
local rows = rowsof(names)
local row = 46
local cum_percent = 0
tabulate performancestatus, matcell(freq) matrow(names)
putexcel A45=("Ability to self-care") B45=("Freq.") C45=("Percent") D45=("Cum.") using results, sheet("Clinical data") modify
 forvalues i = 1/`rows' {
      local val = names[`i',1]
      local val_lab : label (performancestatus) `val'
      local freq_val = freq[`i',1]
      local percent_val = `freq_val'/`r(N)'*100
      local percent_val : display %9.2f `percent_val'
      local cum_percent : display %9.2f (`cum_percent' + `percent_val')
      putexcel A`row'=("`val_lab'") B`row'=(`freq_val') C`row'=(`percent_val') ///
          D`row'=(`cum_percent') using results, sheet("Clinical data") modify
      local row = `row' + 1
}

putexcel A`row'=("Total") B`row'=(r(N)) C`row'=(100.00) using results, sheet("Clinical data") modify


***Treatment with antivirals
tabulate treatwithantivirals, matcell(freq) matrow(names)
local rows = rowsof(names)
local row = 55
local cum_percent = 0
tabulate treatwithantivirals, matcell(freq) matrow(names)
putexcel A54=("Treatment with antivirals") B54=("Freq.") C54=("Percent") D54=("Cum.") using results, sheet("Clinical data") modify
 forvalues i = 1/`rows' {
      local val = names[`i',1]
      local val_lab : label (treatwithantivirals) `val'
      local freq_val = freq[`i',1]
      local percent_val = `freq_val'/`r(N)'*100
      local percent_val : display %9.2f `percent_val'
      local cum_percent : display %9.2f (`cum_percent' + `percent_val')
      putexcel A`row'=("`val_lab'") B`row'=(`freq_val') C`row'=(`percent_val') ///
          D`row'=(`cum_percent') using results, sheet("Clinical data") modify
      local row = `row' + 1
}

putexcel A`row'=("Total") B`row'=(r(N)) C`row'=(100.00) using results, sheet("Clinical data") modify


***Treatment with antibiotics
tabulate treatwithantibiotics, matcell(freq) matrow(names)
local rows = rowsof(names)
local row = 60
local cum_percent = 0
tabulate treatwithantibiotics, matcell(freq) matrow(names)
putexcel A59=("Treatment with antibiotics") B59=("Freq.") C59=("Percent") D59=("Cum.") using results, sheet("Clinical data") modify
 forvalues i = 1/`rows' {
      local val = names[`i',1]
      local val_lab : label (treatwithantibiotics) `val'
      local freq_val = freq[`i',1]
      local percent_val = `freq_val'/`r(N)'*100
      local percent_val : display %9.2f `percent_val'
      local cum_percent : display %9.2f (`cum_percent' + `percent_val')
      putexcel A`row'=("`val_lab'") B`row'=(`freq_val') C`row'=(`percent_val') ///
          D`row'=(`cum_percent') using results, sheet("Clinical data") modify
      local row = `row' + 1
}

putexcel A`row'=("Total") B`row'=(r(N)) C`row'=(100.00) using results, sheet("Clinical data") modify


***Refer to hospital
tabulate refertohospital, matcell(freq) matrow(names)
local rows = rowsof(names)
local row = 65
local cum_percent = 0
```

```stata
tabulate refertohospital, matcell(freq) matrow(names)
putexcel A64=("Refer to hospital") B64=("Freq.") C64=("Percent") D64=("Cum.") using results, sheet("Clinical data") modify
 forvalues i = 1/`rows' {
      local val = names[`i',1]
      local val_lab : label (refertohospital) `val'
      local freq_val = freq[`i',1]
      local percent_val = `freq_val'/`r(N)'*100
      local percent_val : display %9.2f `percent_val'
      local cum_percent : display %9.2f (`cum_percent' + `percent_val')
      putexcel A`row'=("`val_lab'") B`row'=(`freq_val') C`row'=(`percent_val') ///
          D`row'=(`cum_percent') using results, sheet("Clinical data") modify
      local row = `row' + 1
}

putexcel A`row'=("Total") B`row'=(r(N)) C`row'=(100.00) using results, sheet("Clinical data") modify

******ANALYSES******
***Unadjusted***
**Outcome#1: Decision to treat with antivirals
*CATs A
putexcel A1=("Regression Results contains results from unadjusted and adjusted logistic regression results for outcomes of interest") using results, sheet("Regression results") modify
logit treatwithantivirals CAT_triage_A
putexcel A3=("Unadjusted analyses") using results, sheet("Regression results") modify
putexcel A4=("1. Outcome: Decision to treat with antivirals") using results, sheet("Regression results") modify
putexcel B5=("n") C5=("OR") D5=("Lower 95% CI") E5=("Upper 95% CI") F5=("p-value") using results, sheet("Regression results") modify
putexcel A6=("CATs A") B6=(e(N)) C6=(exp(_b[CAT_triage_A])) D6=(exp(_b[CAT_triage_A]-(1.96*_se[CAT_triage_A])))
E6=(exp(_b[CAT_triage_A]+(1.96*_se[CAT_triage_A]))) F6=(2*normal(-abs(_b[CAT_triage_A]/_se[CAT_triage_A]))) using results,
sheet("Regression results") modify
*CATs B
logit treatwithantivirals CAT_triage_B
putexcel A7=("CATs B") B7=(e(N)) C7=(exp(_b[CAT_triage_B])) D7=(exp(_b[CAT_triage_B]-(1.96*_se[CAT_triage_B])))
E7=(exp(_b[CAT_triage_B]+(1.96*_se[CAT_triage_B]))) F7=(2*normal(-abs(_b[CAT_triage_B]/_se[CAT_triage_B]))) using results,
sheet("Regression results") modify
*CATs C
logit treatwithantivirals CAT_triage_C
putexcel A8=("CATs C") B8=(e(N)) C8=(exp(_b[CAT_triage_C])) D8=(exp(_b[CAT_triage_C]-(1.96*_se[CAT_triage_C])))
E8=(exp(_b[CAT_triage_C]+(1.96*_se[CAT_triage_C]))) F8=(2*normal(-abs(_b[CAT_triage_C]/_se[CAT_triage_C]))) using results,
sheet("Regression results") modify
*CATs D
logit treatwithantivirals CAT_triage_D
putexcel A9=("CATs D") B9=(e(N)) C9=(exp(_b[CAT_triage_D])) D9=(exp(_b[CAT_triage_D]-(1.96*_se[CAT_triage_D])))
E9=(exp(_b[CAT_triage_D]+(1.96*_se[CAT_triage_D]))) F9=(2*normal(-abs(_b[CAT_triage_D]/_se[CAT_triage_D]))) using results,
sheet("Regression results") modify
*CATs E
logit treatwithantivirals CAT_triage_E
putexcel A10=("CATs E") B10=(e(N)) C10=(exp(_b[CAT_triage_E])) D10=(exp(_b[CAT_triage_E]-(1.96*_se[CAT_triage_E])))
E10=(exp(_b[CAT_triage_E]+(1.96*_se[CAT_triage_E]))) F10=(2*normal(-abs(_b[CAT_triage_E]/_se[CAT_triage_E]))) using results,
sheet("Regression results") modify
*CATs F
logit treatwithantivirals CAT_triage_F
putexcel A11=("CATs F") B11=(e(N)) C11=(exp(_b[CAT_triage_F])) D11=(exp(_b[CAT_triage_F]-(1.96*_se[CAT_triage_F])))
E11=(exp(_b[CAT_triage_F]+(1.96*_se[CAT_triage_F]))) F11=(2*normal(-abs(_b[CAT_triage_F]/_se[CAT_triage_F]))) using results,
sheet("Regression results") modify
*CATs G
logit treatwithantivirals CAT_triage_G
putexcel A12=("CATs G") B12=(e(N)) C12=(exp(_b[CAT_triage_G])) D12=(exp(_b[CAT_triage_G]-(1.96*_se[CAT_triage_G])))
E12=(exp(_b[CAT_triage_G]+(1.96*_se[CAT_triage_G]))) F12=(2*normal(-abs(_b[CAT_triage_G]/_se[CAT_triage_G]))) using results,
sheet("Regression results") modify

**Outcome#2: Decision to treat with antibiotics
*CATs A
logit treatwithantibiotics CAT_triage_A
putexcel A14=("2. Outcome: Decision to treat with antibiotics") using results, sheet("Regression results") modify
putexcel B15=("n") C15=("OR") D15=("Lower 95% CI") E15=("Upper 95% CI") F15=("p-value") using results, sheet("Regression results")
modify
putexcel A16=("CATs A") B16=(e(N)) C16=(exp(_b[CAT_triage_A])) D16=(exp(_b[CAT_triage_A]-(1.96*_se[CAT_triage_A])))
E16=(exp(_b[CAT_triage_A]+(1.96*_se[CAT_triage_A]))) F16=(2*normal(-abs(_b[CAT_triage_A]/_se[CAT_triage_A]))) using results,
sheet("Regression results") modify
*CATs B
logit treatwithantibiotics CAT_triage_B
```

```
putexcel A17=("CATs B") B17=(e(N)) C17=(exp(_b[CAT_triage_B])) D17=(exp(_b[CAT_triage_B]-(1.96*_se[CAT_triage_B])))
E17=(exp(_b[CAT_triage_B]+(1.96*_se[CAT_triage_B]))) F17=(2*normal(-abs(_b[CAT_triage_B]/_se[CAT_triage_B]))) using results,
sheet("Regression results") modify
*CATs C
logit treatwithantibiotics CAT_triage_C
putexcel A18=("CATs C") B18=(e(N)) C18=(exp(_b[CAT_triage_C])) D18=(exp(_b[CAT_triage_C]-(1.96*_se[CAT_triage_C])))
E18=(exp(_b[CAT_triage_C]+(1.96*_se[CAT_triage_C]))) F18=(2*normal(-abs(_b[CAT_triage_C]/_se[CAT_triage_C]))) using results,
sheet("Regression results") modify
*CATs D
logit treatwithantibiotics CAT_triage_D
putexcel A19=("CATs D") B19=(e(N)) C19=(exp(_b[CAT_triage_D])) D19=(exp(_b[CAT_triage_D]-(1.96*_se[CAT_triage_D])))
E19=(exp(_b[CAT_triage_D]+(1.96*_se[CAT_triage_D]))) F19=(2*normal(-abs(_b[CAT_triage_D]/_se[CAT_triage_D]))) using results,
sheet("Regression results") modify
*CATs E
logit treatwithantibiotics CAT_triage_E
putexcel A20=("CATs E") B20=(e(N)) C20=(exp(_b[CAT_triage_E])) D20=(exp(_b[CAT_triage_E]-(1.96*_se[CAT_triage_E])))
E20=(exp(_b[CAT_triage_E]+(1.96*_se[CAT_triage_E]))) F20=(2*normal(-abs(_b[CAT_triage_E]/_se[CAT_triage_E]))) using results,
sheet("Regression results") modify
*CATs F
logit treatwithantibiotics CAT_triage_F
putexcel A21=("CATs F") B21=(e(N)) C21=(exp(_b[CAT_triage_F])) D21=(exp(_b[CAT_triage_F]-(1.96*_se[CAT_triage_F])))
E21=(exp(_b[CAT_triage_F]+(1.96*_se[CAT_triage_F]))) F21=(2*normal(-abs(_b[CAT_triage_F]/_se[CAT_triage_F]))) using results,
sheet("Regression results") modify
*CATs G
logit treatwithantibiotics CAT_triage_G
putexcel A22=("CATs G") B22=(e(N)) C22=(exp(_b[CAT_triage_G])) D22=(exp(_b[CAT_triage_G]-(1.96*_se[CAT_triage_G])))
E22=(exp(_b[CAT_triage_G]+(1.96*_se[CAT_triage_G]))) F22=(2*normal(-abs(_b[CAT_triage_G]/_se[CAT_triage_G]))) using results,
sheet("Regression results") modify

**Outcome#3: Decision to refer to hospital
*CATs A
logit refertohospital CAT_triage_A
putexcel A24=("3. Outcome: Decision to refer to hospital") using results, sheet("Regression results") modify
putexcel B25=("n") C25=("OR") D25=("Lower 95% CI") E25=("Upper 95% CI") F25=("p-value") using results, sheet("Regression results")
modify
putexcel A26=("CATs A") B26=(e(N)) C26=(exp(_b[CAT_triage_A])) D26=(exp(_b[CAT_triage_A]-(1.96*_se[CAT_triage_A])))
E26=(exp(_b[CAT_triage_A]+(1.96*_se[CAT_triage_A]))) F26=(2*normal(-abs(_b[CAT_triage_A]/_se[CAT_triage_A]))) using results,
sheet("Regression results") modify
*CATs B
logit refertohospital CAT_triage_B
putexcel A27=("CATs B") B27=(e(N)) C27=(exp(_b[CAT_triage_B])) D27=(exp(_b[CAT_triage_B]-(1.96*_se[CAT_triage_B])))
E27=(exp(_b[CAT_triage_B]+(1.96*_se[CAT_triage_B]))) F27=(2*normal(-abs(_b[CAT_triage_B]/_se[CAT_triage_B]))) using results,
sheet("Regression results") modify
*CATs C
logit refertohospital CAT_triage_C
putexcel A28=("CATs C") B28=(e(N)) C28=(exp(_b[CAT_triage_C])) D28=(exp(_b[CAT_triage_C]-(1.96*_se[CAT_triage_C])))
E28=(exp(_b[CAT_triage_C]+(1.96*_se[CAT_triage_C]))) F28=(2*normal(-abs(_b[CAT_triage_C]/_se[CAT_triage_C]))) using results,
sheet("Regression results") modify
*CATs D
logit refertohospital CAT_triage_D
putexcel A29=("CATs D") B29=(e(N)) C29=(exp(_b[CAT_triage_D])) D29=(exp(_b[CAT_triage_D]-(1.96*_se[CAT_triage_D])))
E29=(exp(_b[CAT_triage_D]+(1.96*_se[CAT_triage_D]))) F29=(2*normal(-abs(_b[CAT_triage_D]/_se[CAT_triage_D]))) using results,
sheet("Regression results") modify
*CATs E
logit refertohospital CAT_triage_E
putexcel A30=("CATs E") B30=(e(N)) C30=(exp(_b[CAT_triage_E])) D30=(exp(_b[CAT_triage_E]-(1.96*_se[CAT_triage_E])))
E30=(exp(_b[CAT_triage_E]+(1.96*_se[CAT_triage_E]))) F30=(2*normal(-abs(_b[CAT_triage_E]/_se[CAT_triage_E]))) using results,
sheet("Regression results") modify
*CATs F
logit refertohospital CAT_triage_F
putexcel A31=("CATs F") B31=(e(N)) C31=(exp(_b[CAT_triage_F])) D31=(exp(_b[CAT_triage_F]-(1.96*_se[CAT_triage_F])))
E31=(exp(_b[CAT_triage_F]+(1.96*_se[CAT_triage_F]))) F31=(2*normal(-abs(_b[CAT_triage_F]/_se[CAT_triage_F]))) using results,
sheet("Regression results") modify
*CATs G
logit refertohospital CAT_triage_G
putexcel A32=("CATs G") B32=(e(N)) C32=(exp(_b[CAT_triage_G])) D32=(exp(_b[CAT_triage_G]-(1.96*_se[CAT_triage_G])))
E32=(exp(_b[CAT_triage_G]+(1.96*_se[CAT_triage_G]))) F32=(2*normal(-abs(_b[CAT_triage_G]/_se[CAT_triage_G]))) using results,
sheet("Regression results") modify

**Adjusted**
**Outcome#1: Decision to treat with antivirals
```

```
*CATs A
logit treatwithantivirals CAT_triage_A CAT_triage_B CAT_triage_C CAT_triage_D CAT_triage_E CAT_triage_F CAT_triage_G, or
putexcel I3=("Adjusted analyses") using results, sheet("Regression results") modify
putexcel I4=("1. Outcome: Decision to treat with antivirals") using results, sheet("Regression results") modify
putexcel J5=("n") K5=("OR") L5=("Lower 95% CI") M5=("Upper 95% CI") N5=("p-value") using results, sheet("Regression results") modify
putexcel I6=("CATs A") J6=(e(N)) K6=(exp(_b[CAT_triage_A])) L6=(exp(_b[CAT_triage_A]-(1.96*_se[CAT_triage_A])))
M6=(exp(_b[CAT_triage_A]+(1.96*_se[CAT_triage_A]))) N6=(2*normal(-abs(_b[CAT_triage_A]/_se[CAT_triage_A]))) using results,
sheet("Regression results") modify
putexcel I7=("CATs B") J7=(e(N)) K7=(exp(_b[CAT_triage_B])) L7=(exp(_b[CAT_triage_B]-(1.96*_se[CAT_triage_B])))
M7=(exp(_b[CAT_triage_B]+(1.96*_se[CAT_triage_B]))) N7=(2*normal(-abs(_b[CAT_triage_B]/_se[CAT_triage_B]))) using results,
sheet("Regression results") modify
putexcel I8=("CATs C") J8=(e(N)) K8=(exp(_b[CAT_triage_C])) L8=(exp(_b[CAT_triage_C]-(1.96*_se[CAT_triage_C])))
M8=(exp(_b[CAT_triage_C]+(1.96*_se[CAT_triage_C]))) N8=(2*normal(-abs(_b[CAT_triage_C]/_se[CAT_triage_C]))) using results,
sheet("Regression results") modify
putexcel I9=("CATs D") J9=(e(N)) K9=(exp(_b[CAT_triage_D])) L9=(exp(_b[CAT_triage_D]-(1.96*_se[CAT_triage_D])))
M9=(exp(_b[CAT_triage_D]+(1.96*_se[CAT_triage_D]))) N9=(2*normal(-abs(_b[CAT_triage_D]/_se[CAT_triage_D]))) using results,
sheet("Regression results") modify
putexcel I10=("CATs E") J10=(e(N)) K10=(exp(_b[CAT_triage_E])) L10=(exp(_b[CAT_triage_E]-(1.96*_se[CAT_triage_E])))
M10=(exp(_b[CAT_triage_E]+(1.96*_se[CAT_triage_E]))) N10=(2*normal(-abs(_b[CAT_triage_E]/_se[CAT_triage_E]))) using results,
sheet("Regression results") modify
putexcel I11=("CATs F") J11=(e(N)) K11=(exp(_b[CAT_triage_F])) L11=(exp(_b[CAT_triage_F]-(1.96*_se[CAT_triage_F])))
M11=(exp(_b[CAT_triage_F]+(1.96*_se[CAT_triage_F]))) N11=(2*normal(-abs(_b[CAT_triage_F]/_se[CAT_triage_F]))) using results,
sheet("Regression results") modify
putexcel I12=("CATs G") J12=(e(N)) K12=(exp(_b[CAT_triage_G])) L12=(exp(_b[CAT_triage_G]-(1.96*_se[CAT_triage_G])))
M12=(exp(_b[CAT_triage_G]+(1.96*_se[CAT_triage_G]))) N12=(2*normal(-abs(_b[CAT_triage_G]/_se[CAT_triage_G]))) using results,
sheet("Regression results") modify

**Outcome#2: Decision to treat with antibiotics
logit treatwithantibiotics CAT_triage_A CAT_triage_B CAT_triage_C CAT_triage_D CAT_triage_E CAT_triage_F CAT_triage_G, or
putexcel I14=("2. Outcome: Decision to treat with antibiotics") using results, sheet("Regression results") modify
putexcel J15=("n") K15=("OR") L15=("Lower 95% CI") M15=("Upper 95% CI") N15=("p-value") using results, sheet("Regression results")
modify
putexcel I16=("CATs A") J16=(e(N)) K16=(exp(_b[CAT_triage_A])) L16=(exp(_b[CAT_triage_A]-(1.96*_se[CAT_triage_A])))
M16=(exp(_b[CAT_triage_A]+(1.96*_se[CAT_triage_A]))) N16=(2*normal(-abs(_b[CAT_triage_A]/_se[CAT_triage_A]))) using results,
sheet("Regression results") modify
putexcel I17=("CATs B") J17=(e(N)) K17=(exp(_b[CAT_triage_B])) L17=(exp(_b[CAT_triage_B]-(1.96*_se[CAT_triage_B])))
M17=(exp(_b[CAT_triage_B]+(1.96*_se[CAT_triage_B]))) N17=(2*normal(-abs(_b[CAT_triage_B]/_se[CAT_triage_B]))) using results,
sheet("Regression results") modify
putexcel I18=("CATs C") J18=(e(N)) K18=(exp(_b[CAT_triage_C])) L18=(exp(_b[CAT_triage_C]-(1.96*_se[CAT_triage_C])))
M18=(exp(_b[CAT_triage_C]+(1.96*_se[CAT_triage_C]))) N18=(2*normal(-abs(_b[CAT_triage_C]/_se[CAT_triage_C]))) using results,
sheet("Regression results") modify
putexcel I19=("CATs D") J19=(e(N)) K19=(exp(_b[CAT_triage_D])) L19=(exp(_b[CAT_triage_D]-(1.96*_se[CAT_triage_D])))
M19=(exp(_b[CAT_triage_D]+(1.96*_se[CAT_triage_D]))) N19=(2*normal(-abs(_b[CAT_triage_D]/_se[CAT_triage_D]))) using results,
sheet("Regression results") modify
putexcel I20=("CATs E") J20=(e(N)) K20=(exp(_b[CAT_triage_E])) L20=(exp(_b[CAT_triage_E]-(1.96*_se[CAT_triage_E])))
M20=(exp(_b[CAT_triage_E]+(1.96*_se[CAT_triage_E]))) N20=(2*normal(-abs(_b[CAT_triage_E]/_se[CAT_triage_E]))) using results,
sheet("Regression results") modify
putexcel I21=("CATs F") J21=(e(N)) K21=(exp(_b[CAT_triage_F])) L21=(exp(_b[CAT_triage_F]-(1.96*_se[CAT_triage_F])))
M21=(exp(_b[CAT_triage_F]+(1.96*_se[CAT_triage_F]))) N21=(2*normal(-abs(_b[CAT_triage_F]/_se[CAT_triage_F]))) using results,
sheet("Regression results") modify
putexcel I22=("CATs G") J22=(e(N)) K22=(exp(_b[CAT_triage_G])) L22=(exp(_b[CAT_triage_G]-(1.96*_se[CAT_triage_G])))
M22=(exp(_b[CAT_triage_G]+(1.96*_se[CAT_triage_G]))) N22=(2*normal(-abs(_b[CAT_triage_G]/_se[CAT_triage_G]))) using results,
sheet("Regression results") modify

**Outcome#3: Decision to refer to hospital
logit refertohospital CAT_triage_A CAT_triage_B CAT_triage_C CAT_triage_D CAT_triage_E CAT_triage_F CAT_triage_G, or
putexcel I24=("3. Outcome: Decision to refer to hospital") using results, sheet("Regression results") modify
putexcel J25=("n") K25=("OR") L25=("Lower 95% CI") M25=("Upper 95% CI") N25=("p-value") using results, sheet("Regression results")
modify
putexcel I26=("CATs A") J26=(e(N)) K26=(exp(_b[CAT_triage_A])) L26=(exp(_b[CAT_triage_A]-(1.96*_se[CAT_triage_A])))
M26=(exp(_b[CAT_triage_A]+(1.96*_se[CAT_triage_A]))) N26=(2*normal(-abs(_b[CAT_triage_A]/_se[CAT_triage_A]))) using results,
sheet("Regression results") modify
putexcel I27=("CATs B") J27=(e(N)) K27=(exp(_b[CAT_triage_B])) L27=(exp(_b[CAT_triage_B]-(1.96*_se[CAT_triage_B])))
M27=(exp(_b[CAT_triage_B]+(1.96*_se[CAT_triage_B]))) N7=(2*normal(-abs(_b[CAT_triage_B]/_se[CAT_triage_B]))) using results,
sheet("Regression results") modify
putexcel I28=("CATs C") J28=(e(N)) K28=(exp(_b[CAT_triage_C])) L28=(exp(_b[CAT_triage_C]-(1.96*_se[CAT_triage_C])))
M28=(exp(_b[CAT_triage_C]+(1.96*_se[CAT_triage_C]))) N28=(2*normal(-abs(_b[CAT_triage_C]/_se[CAT_triage_C]))) using results,
sheet("Regression results") modify
putexcel I29=("CATs D") J29=(e(N)) K29=(exp(_b[CAT_triage_D])) L29=(exp(_b[CAT_triage_D]-(1.96*_se[CAT_triage_D])))
M29=(exp(_b[CAT_triage_D]+(1.96*_se[CAT_triage_D]))) N29=(2*normal(-abs(_b[CAT_triage_D]/_se[CAT_triage_D]))) using results,
sheet("Regression results") modify
```

```
putexcel I30=("CATs E") J30=(e(N)) K30=(exp(_b[CAT_triage_E])) L30=(exp(_b[CAT_triage_E]-(1.96*_se[CAT_triage_E])))
M30=(exp(_b[CAT_triage_E]+(1.96*_se[CAT_triage_E]))) N30=(2*normal(-abs(_b[CAT_triage_E]/_se[CAT_triage_E]))) using results,
sheet("Regression results") modify
putexcel I31=("CATs F") J31=(e(N)) K31=(exp(_b[CAT_triage_F])) L31=(exp(_b[CAT_triage_F]-(1.96*_se[CAT_triage_F])))
M31=(exp(_b[CAT_triage_F]+(1.96*_se[CAT_triage_F]))) N31=(2*normal(-abs(_b[CAT_triage_F]/_se[CAT_triage_F]))) using results,
sheet("Regression results") modify
putexcel I32=("CATs G") J32=(e(N)) K32=(exp(_b[CAT_triage_G])) L32=(exp(_b[CAT_triage_G]-(1.96*_se[CAT_triage_G])))
M32=(exp(_b[CAT_triage_G]+(1.96*_se[CAT_triage_G]))) N32=(2*normal(-abs(_b[CAT_triage_G]/_se[CAT_triage_G]))) using results,
sheet("Regression results") modify
```

## 4. Weekly reports for children's data

```
clear
*** NOTE: Ensure that the directory mentioned below is the directory containing the CLEANED weekly adult/children data files.
//The results spreadsheet will be saved within this directory.
global path = "R:\HPIRG\Flu-CATs\Last Tranche\Weekly\"
cd "$path"
use child_20150413_clean.dta //
//NOTE: The name of the source file may need to be modified. The source file will need to be a cleaned version of the weekly data file.
//This do-file will have to be run separately for adult and for children data.

****************************************************
** EXPORTING FREQUENCIES OF EACH CATs CRITERION INTO EXCEL
**labelling missing values in CAT_triage_B as 9 so that they may be displayed in the spreadsheet
recode CAT_triage_B .=9
label define yesnomissing 0 "No" 1 "Yes" 9 "Missing"
label value CAT_triage_B yesnomissing

putexcel A1=("NIHR Flu-CATs Weekly Report: dd/mm/YYYY") using results, sheet("CATs criteria") replace //Insert the correct date in place
of "dd/mm/YYYY"
putexcel G1=("Data Source: Clinical Practice Research Datalink- Participating GP Practices") using results, sheet("CATs criteria") modify
putexcel A3=("This spreadsheet contains three worksheets- 'CATs criteria' (frequencies of each of the 7 CATs criteria), 'Clinical data' (other
clinical data collected through the LEPIS form)") using results, sheet("CATs criteria") modify
putexcel A4=("and 'Analyses' (results of logistic regression analyses).") using results, sheet("CATs criteria") modify
tabulate CAT_triage_A, matcell(freq) matrow(names)

local rows = rowsof(names)
local row = 7
local cum_percent = 0
***CATs criterion A
tabulate CAT_triage_A, m matcell(freq) matrow(names)
putexcel A6=("CATs A") B6=("Freq.") C6=("Percent") D6=("Cum.") using results, sheet("CATs criteria") modify
 forvalues i = 1/`rows' {
     local val = names[`i',1]
     local val_lab : label (CAT_triage_A) `val'
     local freq_val = freq[`i',1]
     local percent_val = `freq_val'/`r(N)'*100
     local percent_val : display %9.2f `percent_val'
     local cum_percent : display %9.2f (`cum_percent' + `percent_val')
     putexcel A`row'=("`val_lab'") B`row'=(`freq_val') C`row'=(`percent_val') ///
         D`row'=(`cum_percent') using results, sheet("CATs criteria") modify
     local row = `row' + 1
}

putexcel A`row'=("Total") B`row'=(r(N)) C`row'=(100.00) using results, sheet("CATs criteria") modify

***CATs criterion B
tabulate CAT_triage_B, matcell(freq) matrow(names)
local rows = rowsof(names)
local row = 12
local cum_percent = 0
tabulate CAT_triage_B, matcell(freq) matrow(names)
putexcel A11=("CATs B") B11=("Freq.") C11=("Percent") D11=("Cum.") using results, sheet("CATs criteria") modify
 forvalues i = 1/`rows' {
     local val = names[`i',1]
     local val_lab : label (CAT_triage_B) `val'
     local freq_val = freq[`i',1]
     local percent_val = `freq_val'/`r(N)'*100
     local percent_val : display %9.2f `percent_val'
     local cum_percent : display %9.2f (`cum_percent' + `percent_val')
```

```
        putexcel A`row'=("`val_lab'") B`row'=(`freq_val') C`row'=(`percent_val') ///
            D`row'=(`cum_percent') using results, sheet("CATs criteria") modify
        local row = `row' + 1
    }

    putexcel A`row'=("Total") B`row'=(r(N)) C`row'=(100.00) using results, sheet("CATs criteria") modify

    ***CATs criterion C
    tabulate CAT_triage_C, matcell(freq) matrow(names)
    local rows = rowsof(names)
    local row = 18
    local cum_percent = 0
    tabulate CAT_triage_C, matcell(freq) matrow(names)
    putexcel A17=("CATs C") B17=("Freq.") C17=("Percent") D17=("Cum.") using results, sheet("CATs criteria") modify
    forvalues i = 1/`rows' {
        local val = names[`i',1]
        local val_lab : label (CAT_triage_B) `val'
        local freq_val = freq[`i',1]
        local percent_val = `freq_val'/`r(N)'*100
        local percent_val : display %9.2f `percent_val'
        local cum_percent : display %9.2f (`cum_percent' + `percent_val')
        putexcel A`row'=("`val_lab'") B`row'=(`freq_val') C`row'=(`percent_val') ///
            D`row'=(`cum_percent') using results, sheet("CATs criteria") modify
        local row = `row' + 1
    }

    putexcel A`row'=("Total") B`row'=(r(N)) C`row'=(100.00) using results, sheet("CATs criteria") modify

    ***CATs criterion D
    tabulate CAT_triage_D, matcell(freq) matrow(names)
    local rows = rowsof(names)
    local row = 23
    local cum_percent = 0
    tabulate CAT_triage_D, matcell(freq) matrow(names)
    putexcel A22=("CATs D") B22=("Freq.") C22=("Percent") D22=("Cum.") using results, sheet("CATs criteria") modify
    forvalues i = 1/`rows' {
        local val = names[`i',1]
        local val_lab : label (CAT_triage_B) `val'
        local freq_val = freq[`i',1]
        local percent_val = `freq_val'/`r(N)'*100
        local percent_val : display %9.2f `percent_val'
        local cum_percent : display %9.2f (`cum_percent' + `percent_val')
        putexcel A`row'=("`val_lab'") B`row'=(`freq_val') C`row'=(`percent_val') ///
            D`row'=(`cum_percent') using results, sheet("CATs criteria") modify
        local row = `row' + 1
    }

    putexcel A`row'=("Total") B`row'=(r(N)) C`row'=(100.00) using results, sheet("CATs criteria") modify

    ***CATs criterion E
    tabulate CAT_triage_E, matcell(freq) matrow(names)
    local rows = rowsof(names)
    local row = 28
    local cum_percent = 0
    tabulate CAT_triage_E, matcell(freq) matrow(names)
    putexcel A26=("CATs E") B26=("Freq.") C26=("Percent") D26=("Cum.") using results, sheet("CATs criteria") modify
    forvalues i = 1/`rows' {
        local val = names[`i',1]
        local val_lab : label (CAT_triage_B) `val'
        local freq_val = freq[`i',1]
        local percent_val = `freq_val'/`r(N)'*100
        local percent_val : display %9.2f `percent_val'
        local cum_percent : display %9.2f (`cum_percent' + `percent_val')
        putexcel A`row'=("`val_lab'") B`row'=(`freq_val') C`row'=(`percent_val') ///
            D`row'=(`cum_percent') using results, sheet("CATs criteria") modify
        local row = `row' + 1
    }

    putexcel A`row'=("Total") B`row'=(r(N)) C`row'=(100.00) using results, sheet("CATs criteria") modify

    ***CATs criterion F
```

```
tabulate CAT_triage_F, matcell(freq) matrow(names)
local rows = rowsof(names)
local row = 33
local cum_percent = 0
tabulate CAT_triage_F, matcell(freq) matrow(names)
putexcel A32=("CATs F") B32=("Freq.") C32=("Percent") D32=("Cum.") using results, sheet("CATs criteria") modify
 forvalues i = 1/`rows' {
     local val = names[`i',1]
     local val_lab : label (CAT_triage_B) `val'
     local freq_val = freq[`i',1]
     local percent_val = `freq_val'/`r(N)'*100
     local percent_val : display %9.2f `percent_val'
     local cum_percent : display %9.2f (`cum_percent' + `percent_val')
     putexcel A`row'=("'`val_lab'"') B`row'=(`freq_val') C`row'=(`percent_val') ///
         D`row'=(`cum_percent') using results, sheet("CATs criteria") modify
     local row = `row' + 1
}

putexcel A`row'=("Total") B`row'=(r(N)) C`row'=(100.00) using results, sheet("CATs criteria") modify

***CATs criterion G
tabulate CAT_triage_G, matcell(freq) matrow(names)
local rows = rowsof(names)
local row = 38
local cum_percent = 0
tabulate CAT_triage_G, matcell(freq) matrow(names)
putexcel A37=("CATs G") B37=("Freq.") C37=("Percent") D37=("Cum.") using results, sheet("CATs criteria") modify
 forvalues i = 1/`rows' {
     local val = names[`i',1]
     local val_lab : label (CAT_triage_B) `val'
     local freq_val = freq[`i',1]
     local percent_val = `freq_val'/`r(N)'*100
     local percent_val : display %9.2f `percent_val'
     local cum_percent : display %9.2f (`cum_percent' + `percent_val')
     putexcel A`row'=("'`val_lab'"') B`row'=(`freq_val') C`row'=(`percent_val') ///
         D`row'=(`cum_percent') using results, sheet("CATs criteria") modify
     local row = `row' + 1
}

putexcel A`row'=("Total") B`row'=(r(N)) C`row'=(100.00) using results, sheet("CATs criteria") modify

****************************************************
**EXPORTING "Measure/Not measured" STATUS OF DIFFERENT CLINICAL MEASURES ON THE LEPIS FORM
putexcel A1=("'Clinical data' (other clinical data collected through the LEPIS form)") using results, sheet("Clinical data") modify


**recoding errors in coding temperature
recode temperature 3=0 4=0
***Temperature
tabulate temperature, matcell(freq) matrow(names)
local rows = rowsof(names)
local row = 5
local cum_percent = 0
tabulate temperature, matcell(freq) matrow(names)
putexcel A4=("Temperature") B4=("Freq.") C4=("Percent") D4=("Cum.") using results, sheet("Clinical data") modify
 forvalues i = 1/`rows' {
     local val = names[`i',1]
     local val_lab : label (temperature) `val'
     local freq_val = freq[`i',1]
     local percent_val = `freq_val'/`r(N)'*100
     local percent_val : display %9.2f `percent_val'
     local cum_percent : display %9.2f (`cum_percent' + `percent_val')
     putexcel A`row'=("'`val_lab'"') B`row'=(`freq_val') C`row'=(`percent_val') ///
         D`row'=(`cum_percent') using results, sheet("Clinical data") modify
     local row = `row' + 1
}

putexcel A`row'=("Total") B`row'=(r(N)) C`row'=(100.00) using results, sheet("Clinical data") modify

**recoding errors in coding respiratoryrate
recode respiratoryrate 3=0 4=0
```

```
***Respiratory rate
tabulate respiratoryrate, matcell(freq) matrow(names)
local rows = rowsof(names)
local row = 10
local cum_percent = 0
tabulate respiratoryrate, matcell(freq) matrow(names)
putexcel A9=("Respiratory rate") B9=("Freq.") C9=("Percent") D9=("Cum.") using results, sheet("Clinical data") modify
 forvalues i = 1/`rows' {
      local val = names[`i',1]
      local val_lab : label (respiratoryrate) `val'
      local freq_val = freq[`i',1]
      local percent_val = `freq_val'/`r(N)'*100
      local percent_val : display %9.2f `percent_val'
      local cum_percent : display %9.2f (`cum_percent' + `percent_val')
      putexcel A`row'=("`val_lab'") B`row'=(`freq_val') C`row'=(`percent_val') ///
          D`row'=(`cum_percent') using results, sheet("Clinical data") modify
      local row = `row' + 1
}

putexcel A`row'=("Total") B`row'=(r(N)) C`row'=(100.00) using results, sheet("Clinical data") modify


**recoding errors in coding peripheraloxygensaturation
recode peripheraloxygensaturation 3=0 4=0
***Peripheral Oxygen Saturation
tabulate peripheraloxygensaturation, matcell(freq) matrow(names)
local rows = rowsof(names)
local row = 15
local cum_percent = 0
tabulate peripheraloxygensaturation, matcell(freq) matrow(names)
putexcel A14=("Peripheral Oxygen Saturation") B14=("Freq.") C14=("Percent") D14=("Cum.") using results, sheet("Clinical data") modify
 forvalues i = 1/`rows' {
      local val = names[`i',1]
      local val_lab : label (peripheraloxygensaturation) `val'
      local freq_val = freq[`i',1]
      local percent_val = `freq_val'/`r(N)'*100
      local percent_val : display %9.2f `percent_val'
      local cum_percent : display %9.2f (`cum_percent' + `percent_val')
      putexcel A`row'=("`val_lab'") B`row'=(`freq_val') C`row'=(`percent_val') ///
          D`row'=(`cum_percent') using results, sheet("Clinical data") modify
      local row = `row' + 1
}

putexcel A`row'=("Total") B`row'=(r(N)) C`row'=(100.00) using results, sheet("Clinical data") modify


**recoding errors in coding heartrate
recode heartrate 3=0 4=0
***Heart Rate
tabulate heartrate, matcell(freq) matrow(names)
local rows = rowsof(names)
local row = 20
local cum_percent = 0
tabulate heartrate, matcell(freq) matrow(names)
putexcel A19=("Heart Rate") B19=("Freq.") C19=("Percent") D19=("Cum.") using results, sheet("Clinical data") modify
 forvalues i = 1/`rows' {
      local val = names[`i',1]
      local val_lab : label (heartrate) `val'
      local freq_val = freq[`i',1]
      local percent_val = `freq_val'/`r(N)'*100
      local percent_val : display %9.2f `percent_val'
      local cum_percent : display %9.2f (`cum_percent' + `percent_val')
      putexcel A`row'=("`val_lab'") B`row'=(`freq_val') C`row'=(`percent_val') ///
          D`row'=(`cum_percent') using results, sheet("Clinical data") modify
      local row = `row' + 1
}

putexcel A`row'=("Total") B`row'=(r(N)) C`row'=(100.00) using results, sheet("Clinical data") modify


**recoding errors in coding severedehydration
recode severedehydration 3=0 4=0
***Severe Dehydration
```

```
tabulate severedehydration, matcell(freq) matrow(names)
local rows = rowsof(names)
local row = 30
local cum_percent = 0
tabulate severedehydration, matcell(freq) matrow(names)
putexcel A29=("Severe Dehydration") B29=("Freq.") C29=("Percent") D29=("Cum.") using results, sheet("Clinical data") modify
 forvalues i = 1/`rows' {
     local val = names[`i',1]
     local val_lab : label (severedehydration) `val'
     local freq_val = freq[`i',1]
     local percent_val = `freq_val'/`r(N)'*100
     local percent_val : display %9.2f `percent_val'
     local cum_percent : display %9.2f (`cum_percent' + `percent_val')
     putexcel A`row'=("`val_lab'") B`row'=(`freq_val') C`row'=(`percent_val') ///
         D`row'=(`cum_percent') using results, sheet("Clinical data") modify
     local row = `row' + 1
}

putexcel A`row'=("Total") B`row'=(r(N)) C`row'=(100.00) using results, sheet("Clinical data") modify

***New altered conscious level
tabulate newalteredconsciouslevel, matcell(freq) matrow(names)
local rows = rowsof(names)
local row = 35
local cum_percent = 0
tabulate newalteredconsciouslevel, matcell(freq) matrow(names)
putexcel A34=("New altered consciousness level") B34=("Freq.") C34=("Percent") D34=("Cum.") using results, sheet("Clinical data") modify
 forvalues i = 1/`rows' {
     local val = names[`i',1]
     local val_lab : label (newalteredconsciouslevel) `val'
     local freq_val = freq[`i',1]
     local percent_val = `freq_val'/`r(N)'*100
     local percent_val : display %9.2f `percent_val'
     local cum_percent : display %9.2f (`cum_percent' + `percent_val')
     putexcel A`row'=("`val_lab'") B`row'=(`freq_val') C`row'=(`percent_val') ///
         D`row'=(`cum_percent') using results, sheet("Clinical data") modify
     local row = `row' + 1
}

putexcel A`row'=("Total") B`row'=(r(N)) C`row'=(100.00) using results, sheet("Clinical data") modify

***Treatment with antivirals
tabulate treatwithantivirals, matcell(freq) matrow(names)
local rows = rowsof(names)
local row = 55
local cum_percent = 0
tabulate treatwithantivirals, matcell(freq) matrow(names)
putexcel A54=("Treatment with antivirals") B54=("Freq.") C54=("Percent") D54=("Cum.") using results, sheet("Clinical data") modify
 forvalues i = 1/`rows' {
     local val = names[`i',1]
     local val_lab : label (treatwithantivirals) `val'
     local freq_val = freq[`i',1]
     local percent_val = `freq_val'/`r(N)'*100
     local percent_val : display %9.2f `percent_val'
     local cum_percent : display %9.2f (`cum_percent' + `percent_val')
     putexcel A`row'=("`val_lab'") B`row'=(`freq_val') C`row'=(`percent_val') ///
         D`row'=(`cum_percent') using results, sheet("Clinical data") modify
     local row = `row' + 1
}

putexcel A`row'=("Total") B`row'=(r(N)) C`row'=(100.00) using results, sheet("Clinical data") modify

***Treatment with antibiotics
tabulate treatwithantibiotics, matcell(freq) matrow(names)
local rows = rowsof(names)
local row = 60
local cum_percent = 0
tabulate treatwithantibiotics, matcell(freq) matrow(names)
putexcel A59=("Treatment with antibiotics") B59=("Freq.") C59=("Percent") D59=("Cum.") using results, sheet("Clinical data") modify
 forvalues i = 1/`rows' {
```

```stata
        local val = names[`i',1]
        local val_lab : label (treatwithantibiotics) `val'
        local freq_val = freq[`i',1]
        local percent_val = `freq_val'/`r(N)'*100
        local percent_val : display %9.2f `percent_val'
        local cum_percent : display %9.2f (`cum_percent' + `percent_val')
        putexcel A`row'=("`val_lab'") B`row'=(`freq_val') C`row'=(`percent_val') ///
            D`row'=(`cum_percent') using results, sheet("Clinical data") modify
        local row = `row' + 1
}

putexcel A`row'=("Total") B`row'=(r(N)) C`row'=(100.00) using results, sheet("Clinical data") modify


***Refer to hospital
tabulate refertohospital, matcell(freq) matrow(names)
local rows = rowsof(names)
local row = 65
local cum_percent = 0
tabulate refertohospital, matcell(freq) matrow(names)
putexcel A64=("Refer to hospital") B64=("Freq.") C64=("Percent") D64=("Cum.") using results, sheet("Clinical data") modify
 forvalues i = 1/`rows' {
        local val = names[`i',1]
        local val_lab : label (refertohospital) `val'
        local freq_val = freq[`i',1]
        local percent_val = `freq_val'/`r(N)'*100
        local percent_val : display %9.2f `percent_val'
        local cum_percent : display %9.2f (`cum_percent' + `percent_val')
        putexcel A`row'=("`val_lab'") B`row'=(`freq_val') C`row'=(`percent_val') ///
            D`row'=(`cum_percent') using results, sheet("Clinical data") modify
        local row = `row' + 1
}

putexcel A`row'=("Total") B`row'=(r(N)) C`row'=(100.00) using results, sheet("Clinical data") modify


******ANALYSES******
***Unadjusted***
**Outcome#1: Decision to treat with antivirals
*CATs A
putexcel A1=("Regression Results contains results from unadjusted and adjusted logistic regression results for outcomes of interest") using results, sheet("Regression results") modify
logit treatwithantivirals CAT_triage_A
putexcel A3=("Unadjusted analyses") using results, sheet("Regression results") modify
putexcel A4=("1. Outcome: Decision to treat with antivirals") using results, sheet("Regression results") modify
putexcel B5=("n") C5=("OR") D5=("Lower 95% CI") E5=("Upper 95% CI") F5=("p-value") using results, sheet("Regression results") modify
putexcel A6=("CATs A") B6=(e(N)) C6=(exp(_b[CAT_triage_A])) D6=(exp(_b[CAT_triage_A]-(1.96*_se[CAT_triage_A])))
E6=(exp(_b[CAT_triage_A]+(1.96*_se[CAT_triage_A]))) F6=(2*normal(-abs(_b[CAT_triage_A]/_se[CAT_triage_A]))) using results,
sheet("Regression results") modify
*CATs B
logit treatwithantivirals CAT_triage_B
putexcel A7=("CATs B") B7=(e(N)) C7=(exp(_b[CAT_triage_B])) D7=(exp(_b[CAT_triage_B]-(1.96*_se[CAT_triage_B])))
E7=(exp(_b[CAT_triage_B]+(1.96*_se[CAT_triage_B]))) F7=(2*normal(-abs(_b[CAT_triage_B]/_se[CAT_triage_B]))) using results,
sheet("Regression results") modify
*CATs C
logit treatwithantivirals CAT_triage_C
putexcel A8=("CATs C") B8=(e(N)) C8=(exp(_b[CAT_triage_C])) D8=(exp(_b[CAT_triage_C]-(1.96*_se[CAT_triage_C])))
E8=(exp(_b[CAT_triage_C]+(1.96*_se[CAT_triage_C]))) F8=(2*normal(-abs(_b[CAT_triage_C]/_se[CAT_triage_C]))) using results,
sheet("Regression results") modify
*CATs D
logit treatwithantivirals CAT_triage_D
putexcel A9=("CATs D") B9=(e(N)) C9=(exp(_b[CAT_triage_D])) D9=(exp(_b[CAT_triage_D]-(1.96*_se[CAT_triage_D])))
E9=(exp(_b[CAT_triage_D]+(1.96*_se[CAT_triage_D]))) F9=(2*normal(-abs(_b[CAT_triage_D]/_se[CAT_triage_D]))) using results,
sheet("Regression results") modify
*CATs E
logit treatwithantivirals CAT_triage_E
putexcel A10=("CATs E") B10=(e(N)) C10=(exp(_b[CAT_triage_E])) D10=(exp(_b[CAT_triage_E]-(1.96*_se[CAT_triage_E])))
E10=(exp(_b[CAT_triage_E]+(1.96*_se[CAT_triage_E]))) F10=(2*normal(-abs(_b[CAT_triage_E]/_se[CAT_triage_E]))) using results,
sheet("Regression results") modify
*CATs F
logit treatwithantivirals CAT_triage_F
```

putexcel A11=("CATs F") B11=(e(N)) C11=(exp(_b[CAT_triage_F])) D11=(exp(_b[CAT_triage_F]-(1.96*_se[CAT_triage_F])))
E11=(exp(_b[CAT_triage_F]+(1.96*_se[CAT_triage_F]))) F11=(2*normal(-abs(_b[CAT_triage_F]/_se[CAT_triage_F]))) using results,
sheet("Regression results") modify
*CATs G
logit treatwithantivirals CAT_triage_G
putexcel A12=("CATs G") B12=(e(N)) C12=(exp(_b[CAT_triage_G])) D12=(exp(_b[CAT_triage_G]-(1.96*_se[CAT_triage_G])))
E12=(exp(_b[CAT_triage_G]+(1.96*_se[CAT_triage_G]))) F12=(2*normal(-abs(_b[CAT_triage_G]/_se[CAT_triage_G]))) using results,
sheet("Regression results") modify

**Outcome#2: Decision to treat with antibiotics
*CATs A
logit treatwithantibiotics CAT_triage_A
putexcel A14=("2. Outcome: Decision to treat with antibiotics") using results, sheet("Regression results") modify
putexcel B15=("n") C15=("OR") D15=("Lower 95% CI") E15=("Upper 95% CI") F15=("p-value") using results, sheet("Regression results")
modify
putexcel A16=("CATs A") B16=(e(N)) C16=(exp(_b[CAT_triage_A])) D16=(exp(_b[CAT_triage_A]-(1.96*_se[CAT_triage_A])))
E16=(exp(_b[CAT_triage_A]+(1.96*_se[CAT_triage_A]))) F16=(2*normal(-abs(_b[CAT_triage_A]/_se[CAT_triage_A]))) using results,
sheet("Regression results") modify
*CATs B
logit treatwithantibiotics CAT_triage_B
putexcel A17=("CATs B") B17=(e(N)) C17=(exp(_b[CAT_triage_B])) D17=(exp(_b[CAT_triage_B]-(1.96*_se[CAT_triage_B])))
E17=(exp(_b[CAT_triage_B]+(1.96*_se[CAT_triage_B]))) F17=(2*normal(-abs(_b[CAT_triage_B]/_se[CAT_triage_B]))) using results,
sheet("Regression results") modify
*CATs C
logit treatwithantibiotics CAT_triage_C
putexcel A18=("CATs C") B18=(e(N)) C18=(exp(_b[CAT_triage_C])) D18=(exp(_b[CAT_triage_C]-(1.96*_se[CAT_triage_C])))
E18=(exp(_b[CAT_triage_C]+(1.96*_se[CAT_triage_C]))) F18=(2*normal(-abs(_b[CAT_triage_C]/_se[CAT_triage_C]))) using results,
sheet("Regression results") modify
*CATs D
logit treatwithantibiotics CAT_triage_D
putexcel A19=("CATs D") B19=(e(N)) C19=(exp(_b[CAT_triage_D])) D19=(exp(_b[CAT_triage_D]-(1.96*_se[CAT_triage_D])))
E19=(exp(_b[CAT_triage_D]+(1.96*_se[CAT_triage_D]))) F19=(2*normal(-abs(_b[CAT_triage_D]/_se[CAT_triage_D]))) using results,
sheet("Regression results") modify
*CATs E
logit treatwithantibiotics CAT_triage_E
putexcel A20=("CATs E") B20=(e(N)) C20=(exp(_b[CAT_triage_E])) D20=(exp(_b[CAT_triage_E]-(1.96*_se[CAT_triage_E])))
E20=(exp(_b[CAT_triage_E]+(1.96*_se[CAT_triage_E]))) F20=(2*normal(-abs(_b[CAT_triage_E]/_se[CAT_triage_E]))) using results,
sheet("Regression results") modify
*CATs F
logit treatwithantibiotics CAT_triage_F
putexcel A21=("CATs F") B21=(e(N)) C21=(exp(_b[CAT_triage_F])) D21=(exp(_b[CAT_triage_F]-(1.96*_se[CAT_triage_F])))
E21=(exp(_b[CAT_triage_F]+(1.96*_se[CAT_triage_F]))) F21=(2*normal(-abs(_b[CAT_triage_F]/_se[CAT_triage_F]))) using results,
sheet("Regression results") modify
*CATs G
logit treatwithantibiotics CAT_triage_G
putexcel A22=("CATs G") B22=(e(N)) C22=(exp(_b[CAT_triage_G])) D22=(exp(_b[CAT_triage_G]-(1.96*_se[CAT_triage_G])))
E22=(exp(_b[CAT_triage_G]+(1.96*_se[CAT_triage_G]))) F22=(2*normal(-abs(_b[CAT_triage_G]/_se[CAT_triage_G]))) using results,
sheet("Regression results") modify

**Outcome#3: Decision to refer to hospital
*CATs A
logit refertohospital CAT_triage_A
putexcel A24=("3. Outcome: Decision to refer to hospital") using results, sheet("Regression results") modify
putexcel B25=("n") C25=("OR") D25=("Lower 95% CI") E25=("Upper 95% CI") F25=("p-value") using results, sheet("Regression results")
modify
putexcel A26=("CATs A") B26=(e(N)) C26=(exp(_b[CAT_triage_A])) D26=(exp(_b[CAT_triage_A]-(1.96*_se[CAT_triage_A])))
E26=(exp(_b[CAT_triage_A]+(1.96*_se[CAT_triage_A]))) F26=(2*normal(-abs(_b[CAT_triage_A]/_se[CAT_triage_A]))) using results,
sheet("Regression results") modify
*CATs B
logit refertohospital CAT_triage_B
putexcel A27=("CATs B") B27=(e(N)) C27=(exp(_b[CAT_triage_B])) D27=(exp(_b[CAT_triage_B]-(1.96*_se[CAT_triage_B])))
E27=(exp(_b[CAT_triage_B]+(1.96*_se[CAT_triage_B]))) F27=(2*normal(-abs(_b[CAT_triage_B]/_se[CAT_triage_B]))) using results,
sheet("Regression results") modify
*CATs C
logit refertohospital CAT_triage_C
putexcel A28=("CATs C") B28=(e(N)) C28=(exp(_b[CAT_triage_C])) D28=(exp(_b[CAT_triage_C]-(1.96*_se[CAT_triage_C])))
E28=(exp(_b[CAT_triage_C]+(1.96*_se[CAT_triage_C]))) F28=(2*normal(-abs(_b[CAT_triage_C]/_se[CAT_triage_C]))) using results,
sheet("Regression results") modify
*CATs D
logit refertohospital CAT_triage_D

```
putexcel A29=("CATs D") B29=(e(N)) C29=(exp(_b[CAT_triage_D])) D29=(exp(_b[CAT_triage_D]-(1.96*_se[CAT_triage_D])))
E29=(exp(_b[CAT_triage_D]+(1.96*_se[CAT_triage_D]))) F29=(2*normal(-abs(_b[CAT_triage_D]/_se[CAT_triage_D]))) using results,
sheet("Regression results") modify
*CATs E
logit refertohospital CAT_triage_E
putexcel A30=("CATs E") B30=(e(N)) C30=(exp(_b[CAT_triage_E])) D30=(exp(_b[CAT_triage_E]-(1.96*_se[CAT_triage_E])))
E30=(exp(_b[CAT_triage_E]+(1.96*_se[CAT_triage_E]))) F30=(2*normal(-abs(_b[CAT_triage_E]/_se[CAT_triage_E]))) using results,
sheet("Regression results") modify
*CATs F
logit refertohospital CAT_triage_F
putexcel A31=("CATs F") B31=(e(N)) C31=(exp(_b[CAT_triage_F])) D31=(exp(_b[CAT_triage_F]-(1.96*_se[CAT_triage_F])))
E31=(exp(_b[CAT_triage_F]+(1.96*_se[CAT_triage_F]))) F31=(2*normal(-abs(_b[CAT_triage_F]/_se[CAT_triage_F]))) using results,
sheet("Regression results") modify
*CATs G
logit refertohospital CAT_triage_G
putexcel A32=("CATs G") B32=(e(N)) C32=(exp(_b[CAT_triage_G])) D32=(exp(_b[CAT_triage_G]-(1.96*_se[CAT_triage_G])))
E32=(exp(_b[CAT_triage_G]+(1.96*_se[CAT_triage_G]))) F32=(2*normal(-abs(_b[CAT_triage_G]/_se[CAT_triage_G]))) using results,
sheet("Regression results") modify


**Adjusted**
**Outcome#1: Decision to treat with antivirals
*CATs A
logit treatwithantivirals CAT_triage_A CAT_triage_B CAT_triage_C CAT_triage_D CAT_triage_E CAT_triage_F CAT_triage_G, or
putexcel I3=("Adjusted analyses") using results, sheet("Regression results") modify
putexcel I4=("1. Outcome: Decision to treat with antivirals") using results, sheet("Regression results") modify
putexcel J5=("n") K5=("OR") L5=("Lower 95% CI") M5=("Upper 95% CI") N5=("p-value") using results, sheet("Regression results") modify
putexcel I6=("CATs A") J6=(e(N)) K6=(exp(_b[CAT_triage_A])) L6=(exp(_b[CAT_triage_A]-(1.96*_se[CAT_triage_A])))
M6=(exp(_b[CAT_triage_A]+(1.96*_se[CAT_triage_A]))) N6=(2*normal(-abs(_b[CAT_triage_A]/_se[CAT_triage_A]))) using results,
sheet("Regression results") modify
putexcel I7=("CATs B") J7=(e(N)) K7=(exp(_b[CAT_triage_B])) L7=(exp(_b[CAT_triage_B]-(1.96*_se[CAT_triage_B])))
M7=(exp(_b[CAT_triage_B]+(1.96*_se[CAT_triage_B]))) N7=(2*normal(-abs(_b[CAT_triage_B]/_se[CAT_triage_B]))) using results,
sheet("Regression results") modify
putexcel I8=("CATs C") J8=(e(N)) K8=(exp(_b[CAT_triage_C])) L8=(exp(_b[CAT_triage_C]-(1.96*_se[CAT_triage_C])))
M8=(exp(_b[CAT_triage_C]+(1.96*_se[CAT_triage_C]))) N8=(2*normal(-abs(_b[CAT_triage_C]/_se[CAT_triage_C]))) using results,
sheet("Regression results") modify
putexcel I9=("CATs D") J9=(e(N)) K9=(exp(_b[CAT_triage_D])) L9=(exp(_b[CAT_triage_D]-(1.96*_se[CAT_triage_D])))
M9=(exp(_b[CAT_triage_D]+(1.96*_se[CAT_triage_D]))) N9=(2*normal(-abs(_b[CAT_triage_D]/_se[CAT_triage_D]))) using results,
sheet("Regression results") modify
putexcel I10=("CATs E") J10=(e(N)) K10=(exp(_b[CAT_triage_E])) L10=(exp(_b[CAT_triage_E]-(1.96*_se[CAT_triage_E])))
M10=(exp(_b[CAT_triage_E]+(1.96*_se[CAT_triage_E]))) N10=(2*normal(-abs(_b[CAT_triage_E]/_se[CAT_triage_E]))) using results,
sheet("Regression results") modify
putexcel I11=("CATs F") J11=(e(N)) K11=(exp(_b[CAT_triage_F])) L11=(exp(_b[CAT_triage_F]-(1.96*_se[CAT_triage_F])))
M11=(exp(_b[CAT_triage_F]+(1.96*_se[CAT_triage_F]))) N11=(2*normal(-abs(_b[CAT_triage_F]/_se[CAT_triage_F]))) using results,
sheet("Regression results") modify
putexcel I12=("CATs G") J12=(e(N)) K12=(exp(_b[CAT_triage_G])) L12=(exp(_b[CAT_triage_G]-(1.96*_se[CAT_triage_G])))
M12=(exp(_b[CAT_triage_G]+(1.96*_se[CAT_triage_G]))) N12=(2*normal(-abs(_b[CAT_triage_G]/_se[CAT_triage_G]))) using results,
sheet("Regression results") modify


**Outcome#2: Decision to treat with antibiotics
logit treatwithantibiotics CAT_triage_A CAT_triage_B CAT_triage_C CAT_triage_D CAT_triage_E CAT_triage_F CAT_triage_G, or
putexcel I14=("2. Outcome: Decision to treat with antibiotics") using results, sheet("Regression results") modify
putexcel J15=("n") K15=("OR") L15=("Lower 95% CI") M15=("Upper 95% CI") N15=("p-value") using results, sheet("Regression results")
modify
putexcel I16=("CATs A") J16=(e(N)) K16=(exp(_b[CAT_triage_A])) L16=(exp(_b[CAT_triage_A]-(1.96*_se[CAT_triage_A])))
M16=(exp(_b[CAT_triage_A]+(1.96*_se[CAT_triage_A]))) N16=(2*normal(-abs(_b[CAT_triage_A]/_se[CAT_triage_A]))) using results,
sheet("Regression results") modify
putexcel I17=("CATs B") J17=(e(N)) K17=(exp(_b[CAT_triage_B])) L17=(exp(_b[CAT_triage_B]-(1.96*_se[CAT_triage_B])))
M17=(exp(_b[CAT_triage_B]+(1.96*_se[CAT_triage_B]))) N17=(2*normal(-abs(_b[CAT_triage_B]/_se[CAT_triage_B]))) using results,
sheet("Regression results") modify
putexcel I18=("CATs C") J18=(e(N)) K18=(exp(_b[CAT_triage_C])) L18=(exp(_b[CAT_triage_C]-(1.96*_se[CAT_triage_C])))
M18=(exp(_b[CAT_triage_C]+(1.96*_se[CAT_triage_C]))) N18=(2*normal(-abs(_b[CAT_triage_C]/_se[CAT_triage_C]))) using results,
sheet("Regression results") modify
putexcel I19=("CATs D") J19=(e(N)) K19=(exp(_b[CAT_triage_D])) L19=(exp(_b[CAT_triage_D]-(1.96*_se[CAT_triage_D])))
M19=(exp(_b[CAT_triage_D]+(1.96*_se[CAT_triage_D]))) N19=(2*normal(-abs(_b[CAT_triage_D]/_se[CAT_triage_D]))) using results,
sheet("Regression results") modify
putexcel I20=("CATs E") J20=(e(N)) K20=(exp(_b[CAT_triage_E])) L20=(exp(_b[CAT_triage_E]-(1.96*_se[CAT_triage_E])))
M20=(exp(_b[CAT_triage_E]+(1.96*_se[CAT_triage_E]))) N20=(2*normal(-abs(_b[CAT_triage_E]/_se[CAT_triage_E]))) using results,
sheet("Regression results") modify
putexcel I21=("CATs F") J21=(e(N)) K21=(exp(_b[CAT_triage_F])) L21=(exp(_b[CAT_triage_F]-(1.96*_se[CAT_triage_F])))
M21=(exp(_b[CAT_triage_F]+(1.96*_se[CAT_triage_F]))) N21=(2*normal(-abs(_b[CAT_triage_F]/_se[CAT_triage_F]))) using results,
sheet("Regression results") modify
```

```
putexcel I22=("CATs G") J22=(e(N)) K22=(exp(_b[CAT_triage_G])) L22=(exp(_b[CAT_triage_G]-(1.96*_se[CAT_triage_G])))
M22=(exp(_b[CAT_triage_G]+(1.96*_se[CAT_triage_G]))) N22=(2*normal(-abs(_b[CAT_triage_G]/_se[CAT_triage_G]))) using results,
sheet("Regression results") modify


**Outcome#3: Decision to refer to hospital
logit refertohospital CAT_triage_A CAT_triage_B CAT_triage_C CAT_triage_D CAT_triage_E CAT_triage_F CAT_triage_G, or
putexcel I24=("3. Outcome: Decision to refer to hospital") using results, sheet("Regression results") modify
putexcel J25=("n") K25=("OR") L25=("Lower 95% CI") M25=("Upper 95% CI") N25=("p-value") using results, sheet("Regression results")
modify
putexcel I26=("CATs A") J26=(e(N)) K26=(exp(_b[CAT_triage_A])) L26=(exp(_b[CAT_triage_A]-(1.96*_se[CAT_triage_A])))
M26=(exp(_b[CAT_triage_A]+(1.96*_se[CAT_triage_A]))) N26=(2*normal(-abs(_b[CAT_triage_A]/_se[CAT_triage_A]))) using results,
sheet("Regression results") modify
putexcel I27=("CATs B") J27=(e(N)) K27=(exp(_b[CAT_triage_B])) L27=(exp(_b[CAT_triage_B]-(1.96*_se[CAT_triage_B])))
M27=(exp(_b[CAT_triage_B]+(1.96*_se[CAT_triage_B]))) N27=(2*normal(-abs(_b[CAT_triage_B]/_se[CAT_triage_B]))) using results,
sheet("Regression results") modify
putexcel I28=("CATs C") J28=(e(N)) K28=(exp(_b[CAT_triage_C])) L28=(exp(_b[CAT_triage_C]-(1.96*_se[CAT_triage_C])))
M28=(exp(_b[CAT_triage_C]+(1.96*_se[CAT_triage_C]))) N28=(2*normal(-abs(_b[CAT_triage_C]/_se[CAT_triage_C]))) using results,
sheet("Regression results") modify
putexcel I29=("CATs D") J29=(e(N)) K29=(exp(_b[CAT_triage_D])) L29=(exp(_b[CAT_triage_D]-(1.96*_se[CAT_triage_D])))
M29=(exp(_b[CAT_triage_D]+(1.96*_se[CAT_triage_D]))) N29=(2*normal(-abs(_b[CAT_triage_D]/_se[CAT_triage_D]))) using results,
sheet("Regression results") modify
putexcel I30=("CATs E") J30=(e(N)) K30=(exp(_b[CAT_triage_E])) L30=(exp(_b[CAT_triage_E]-(1.96*_se[CAT_triage_E])))
M30=(exp(_b[CAT_triage_E]+(1.96*_se[CAT_triage_E]))) N30=(2*normal(-abs(_b[CAT_triage_E]/_se[CAT_triage_E]))) using results,
sheet("Regression results") modify
putexcel I31=("CATs F") J31=(e(N)) K31=(exp(_b[CAT_triage_F])) L31=(exp(_b[CAT_triage_F]-(1.96*_se[CAT_triage_F])))
M31=(exp(_b[CAT_triage_F]+(1.96*_se[CAT_triage_F]))) N31=(2*normal(-abs(_b[CAT_triage_F]/_se[CAT_triage_F]))) using results,
sheet("Regression results") modify
putexcel I32=("CATs G") J32=(e(N)) K32=(exp(_b[CAT_triage_G])) L32=(exp(_b[CAT_triage_G]-(1.96*_se[CAT_triage_G])))
M32=(exp(_b[CAT_triage_G]+(1.96*_se[CAT_triage_G]))) N32=(2*normal(-abs(_b[CAT_triage_G]/_se[CAT_triage_G]))) using results,
sheet("Regression results") modify
```

# 5. Monthly report

```
clear
*** NOTE: Ensure that the directory mentioned below is the directory containing the CLEANED weekly adult/children data files.
//The results document ("my_doc1") will be saved within this directory.
global path = "R:\HPIRG\Flu-CATs\Last tranche\Monthly\"
cd "$path"
use masterfile_2015_04.dta
merge n:n patid using patient_2015_04.dta //
////NOTE: The names of the master file and the patient file may need to be modified. These files are .dta Stata data files downloaded from
Dropbox.
//This do-file will have to be run separately for adult and for children data.
keep if _m==3
drop _m
**Keeping only unique consultations (dropping duplicates)
bys patid submit_date: gen new=_n
keep if new==1
drop new
count
//*(note number)

gen category=1 if cat=="adult"
replace category=2 if cat=="child"
label define adultchild 1 "Adults" 2 "Children"
label value category adultchild
label define gender 1 "Male" 2 "Female"
label value gender gender

**Adult-Children
graph pie, over(category) plabel(_all percent)
graph export "`sf'myplot1.eps", replace
**Male-Female
graph pie, over(gender) plabel(_all percent)
graph export "`sf'myplot2.eps", replace
**Comorbidities
local comorbidities "cardiovascular liver neurological renal respiratory diabetes immune_supression"
foreach comor of local comorbidities {
gen _`comor'=1 if `comor'==1'
}
```

```
graph bar (count) _cardiovascular _liver _neurological _renal _respiratory _diabetes _immune_supression
graph export "`sf'myplot3.eps", replace
**Medication
local medication "statin antibiotic antiviral flu_vaccination hib inhaled_steroids oral_steroids pneumococcal_vaccine"
foreach med of local medication {
gen _`med'=1 if `med'==1
}
graph bar (count) _statin _antibiotic _antiviral _flu_vaccination _hib _inhaled_steroids _oral_steroids _pneumococcal_vaccine
graph export "`sf'myplot4.eps", replace

tempname handle2
***
//RTFUTIL
rtfopen `handle2' using "`sf'mydoc1.rtf", replace
file write `handle2' _n _tab "{\pard\b Flu-CATs Monthly report: April, 2015 \par}" _tab _n //Insert the current month and year
file write `handle2' _n "{\pard\b Data Source: GP practices participating in the CPRD-Flu-CATs Study. \line}"
file write `handle2' _n "{\line}"

// Figure1
file write `handle2' "{\pard\b FIGURE 1: Proportion of adults and children\par}" _n /*
*/ "{\pard A far greater proportion of patients are adults (81.46%) when compared to children (18.54%).  \line}" _n
rtflink `handle2' using "`sf'myplot1.eps"
// Figure2
file write `handle2' _n "{\page}" _n
file write `handle2' _n "{\line}"
file write `handle2' "{\pard\b FIGURE 2: Proportion of males and females\par}" _n /*
*/ "{\pard A slightly higher proportion of patients are female (55.37%) when compared to male (44.63).  \line}" _n
rtflink `handle2' using "`sf'myplot2.eps"
// Figure3
file write `handle2' _n "{\page}" _n
file write `handle2' _n "{\line}"
file write `handle2' "{\pard\b FIGURE 3: Distribution of comorbidities\par}" _n /*
*/ "{\pard Respiratory disease is the most commonly observed comorbidity, followed by diabetes mellitus, renal disease, cardiovascular
disease, neurological disease and liver disease.  \line}" _n
rtflink `handle2' using "`sf'myplot3.eps"
// Figure4
file write `handle2' _n "{\page}" _n
file write `handle2' _n "{\line}"
file write `handle2' "{\pard\b FIGURE 4: Distribution of medications/treatments\par}" _n /*
*/ "{\pard The graph below shows the different medications and treatments that patients in the dataset were on.  \line}" _n
rtflink `handle2' using "`sf'myplot4.eps"
// Table1
gen death_n=1 if death !=.
recode death_n (.=0)
file write `handle2' _n "{\page}" _n /*
*/ "{\pard A total of 8 deaths were observed.  \line}" _n
file write `handle2' _n "{\line}"
file write `handle2' "{\pard\b Table 1\par}" _n
rtfrstyle category gender death_n death, cwidths(1500 1440 1440 1440) local(b d e)
listtex category gender death_n death if death_n==1, /*
        */ handle(`handle2') begin("`b'") delim("`d'") end("`e'") /*
        */ head("`b'\ql{\i Category}`d'\ql{\i Gender}`d'\ql{\i Death }`d'\ql{\i Date of death }`e'")
           file write `handle2' _n "{\line}"
           file write `handle2' _n _tab(2)  /*
      */ "{\pard\b [Any additional notes]\par}" _n _n //Insert any additional notes.
         **

rtfclose `handle2'
*----------------------END CODE
```

## 6. PMEWS & CATs data analysis for comparisons

**Calculating the PMEWS score- use for  adults only (we don't have BP measurements for children) once initial data management has
been carried out**
**While the physiological data (MEWS) component can be carried out using the weekly data downloads corresponding to the FLUCATs
web-based data collection form//
//to score the patient data, merging with the monthly data downloads from CPRD will be required as comorbidity data are needed***

//As monthly data will be used for the PMEWS, the monthly form data (containing clinical measurements) will have to be combined with the monthly//
// masterfile (containing comorbidity data) and the monthly patient file (containing patient age)

**Cleaning the monthly adult form data//
//Note: the directory below (and all subsequent file directories) will need to be modified as approriate by the user.
use "R:\HPIRG\Flu-CATs\Last tranche\Monthly\form_adults_2015_04.dta"

***Converting dates from YMD to MDY
tostring submit_date, gen( submit_date2)
gen submit_date3= date( submit_date2, "YMD")
format submit_date3 %td
drop submit_date2 submit_date
rename submit_date3 submit_date


**Keeping only unique consultations (dropping duplicates)
bys patid submit_date: gen new=_n
keep if new==1
drop new
count


**********************************************************
**data management loops**
**measured/not measured variables**
label define measurements 0 "Not measured" 1 "Measured"
local varlist " temperature respiratoryrate  peripheraloxygensaturation  heartrate bloodpressure"
foreach varname of local varlist {
          encode `varname', gen(`varname'2)
          drop `varname'
          rename `varname'2 `varname'
          recode `varname' 2=0
          label values `varname' measurements

}

**measurement values**
local varlist "temperaturevalue respiratoryratevalue  peripheraloxygensaturationvalue  heartratevalue  bloodpressuresystolic bloodpressurediastolic"

foreach varname of local varlist {
          replace `varname'=" " if  `varname'== "-"
destring `varname', replace

}

**binary categorical (yes/no)**
label define binary_categorical 0 "No" 1 "Yes"
local varlist "patientonoxygen severerespiratorydistress respiratoryexhaustion severedehydration  causingotherclinicalconcern treatwithantivirals  treatwithantibiotics  refertohospital"

foreach varname of local varlist {
encode `varname', gen( `varname'2)
drop `varname'
rename `varname'2 `varname'
recode `varname' 1=0
recode `varname'  2=1
label values `varname' binary_categorical
}


**capillary refill time: code normal as "0" and refill time>2 secs as "1"**
encode capillaryrefilltime, gen( capillaryrefilltime2)
drop  capillaryrefilltime
rename  capillaryrefilltime2  capillaryrefilltime
recode  capillaryrefilltime 1=0
recode  capillaryrefilltime 2=1
label define capillaryrefilltime 0 "Grossly normal" 1 "sternal capillary refill>2 secs"
label values capillaryrefilltime capillaryrefilltime

**patientoxygenvalue: this will show as blank if the previous field 'patientoxygen' was answered as "no"**
encode  patientonoxygenvalue, gen(patientonoxygenvalue2)
drop patientonoxygenvalue
rename patientonoxygenvalue2 patientonoxygenvalue
**check these recode values carefully in new files as current file does not have any 'yes'**
recode patientonoxygenvalue 1=9
recode patientonoxygenvalue 2=0
recode patientonoxygenvalue 3=1
label define patientoxygenvalue 9 "Not applicable" 0 "No" 1 "Yes", replace
label values patientonoxygenvalue patientoxygenvalue


**newalteredconsciouslevel **
encode newalteredconsciouslevel , gen(newalteredconsciouslevel2)
drop newalteredconsciouslevel
rename newalteredconsciouslevel2 newalteredconsciouslevel
**Check coding before doing below
recode newalteredconsciouslevel 2=0
label define newalteredconsciousness 0 "No, patient alert" 1 "Confused/agitated" 2 "Responsive to voice only" 3 "Responsive to pain only/unconscious", replace
label values newalteredconsciouslevel newalteredconsciousness


**socialisolation**
encode socialisolation, gen(socialisolation2)
drop socialisolation
rename socialisolation2 socialisolation
**check codes in new files**
recode socialisolation 1=0
recode socialisolation 3=1
**keep 'unknown' as "2"**
label define socialisolation 0 "No" 1 "Yes" 2 "Unknown"
label values socialisolation socialisolation


**performance status**
encode performancestatus, gen(performancestatus2)
drop performancestatus
rename performancestatus2 performancestatus
**check codes in new file**

**derivation of values based CATs criteria**
gen CAT_triage_A= severerespiratorydistress
label variable CAT_triage_A `"CAT triage criteria A- severe respiratory distress (yes/no)"'
label values CAT_triage_A  binary_categorical

gen CAT_triage_B= .
replace CAT_triage_B= 1 if respiratoryratevalue>30 & respiratoryratevalue !=.
replace CAT_triage_B=0 if respiratoryratevalue<=30
label variable CAT_triage_B `"CAT triage criteria B (resp rate>30 breaths/min)- yes/no"'
label values CAT_triage_B  binary_categorical

gen CAT_triage_C=.
replace CAT_triage_C=1 if  peripheraloxygensaturationvalue<=92 &  peripheraloxygensaturationvalue !=.
replace CAT_triage_C=0 if peripheraloxygensaturationvalue>92
label variable CAT_triage_C `"CAT triage criteria C (peripheral oxygen <=92%)- yes/no"'
label values CAT_triage_C  binary_categorical

gen CAT_triage_D=respiratoryexhaustion
label variable CAT_triage_D `"CAT triage criteria D- respiratory exhaustion (yes/no)"'
label values CAT_triage_D  binary_categorical

gen CAT_triage_E=.
replace CAT_triage_E=1 if capillaryrefilltime==1
replace CAT_triage_E=1 if bloodpressuresystolic<90
replace CAT_triage_E=1 if bloodpressurediastolic<60
replace CAT_triage_E=1 if severedehydration==1
recode CAT_triage_E .=0
label variable CAT_triage_E `"CAT triage criteria E (severe clinical dehydration)- yes/no"'
label values CAT_triage_E  binary_categorical

```
gen CAT_triage_F=.
replace CAT_triage_F=0 if newalteredconsciouslevel==0
recode CAT_triage_F .=1
label variable CAT_triage_F `"CAT triage criteria E (new altered conscious level)- yes/no"'
label values CAT_triage_F  binary_categorical

gen CAT_triage_G= causingotherclinicalconcern
label variable CAT_triage_G `"CAT triage criteria G, causing other clinical concern (yes/no)"'
label values CAT_triage_G  binary_categorical


*create variable labels**
label variable patid `"unique patient identifier"'
label variable pracid `"practice id"'
label variable submit_date `"presentation date"'
label variable temperature `"temperature measurement (measured/not measured)"'
label variable temperaturevalue `"temperature value in celsius; range allowed (35.0-42.0)"'
label variable severerespiratorydistress `"CAT triage criteria A- severe respiratory distress (yes/no)"'
label variable respiratoryexhaustion `"CAT triage criteria D- respiratory exhaustion (yes/no)"'
label variable respiratoryrate `"respiratory rate (measured/not measured)"'
label variable respiratoryratevalue `"respiratory rate- breaths per minute; range allowed (15-120)"'
label variable patientonoxygen `"patient on oxygen (yes/no)"'
label variable patientonoxygenvalue `"new oxygen need (yes/no)"'
label variable peripheraloxygensaturation `"peripheral oxygen value (measured/not measured)"'
label variable peripheraloxygensaturationvalue `"peripheral oxygen saturation (%); range allowed (70-100)"'
label variable heartrate `"heart rate (measured/not measured)"'
label variable heartratevalue `"heart rate value (beats per minute); range allowed (40-200)"'
label variable bloodpressure `"blood pressure (measured/not measured)"'
label variable bloodpressuresystolic `"systolic blood pressure (mmHg); range allowed (70-250)"'
label variable bloodpressurediastolic `"diastolic blood pressure (mmHg); range allowed (40-150)"'
label variable capillaryrefilltime `"sternal capillary refill time: 1 if >2 seconds; 0= grossly normal"'
label variable severedehydration `"severe dehydration (yes/no)"'
label variable newalteredconsciouslevel `"new altered consciousness level (alert; confused/agitated; voice; pain/unconscious)"'
label variable socialisolation `"lives alone or no fixed abode (yes/no/unknown)"'
label variable treatwithantivirals `"decision to treat with antivirals (yes/no)"'
label variable treatwithantibiotics `"decision to treat with antibiotics (yes/no)"'
label variable performancestatus `"activity and ability to self care (categorical variable)"'
label variable causingotherclinicalconcern `"CAT triage criteria G, causing other clinical concern (yes/no)"'
label variable causingotherclinicalconcernvalue `"nature of clinical concern, free text"'
label variable refertohospital `"decision to refer to hospital (yes/no)"'

order patid pracid formid submit_date temperature temperaturevalue severerespiratorydistress respiratoryexhaustion respiratoryrate
respiratoryratevalue patientonoxygen patientonoxygenvalue peripheraloxygensaturation peripheraloxygensaturationvalue heartrate
heartratevalue bloodpressure bloodpressuresystolic bloodpressurediastolic capillaryrefilltime severedehydration
newalteredconsciouslevel socialisolation performancestatus causingotherclinicalconcern causingotherclinicalconcernvalue
treatwithantivirals treatwithantibiotics refertohospital  CAT_triage_A CAT_triage_B CAT_triage_C CAT_triage_D CAT_triage_E
CAT_triage_F CAT_triage_G

***Merging clean monthly adult form file with masterfile to obtain comorbidity data
merge n:n patid using "R:\HPIRG\Flu-CATs\Last tranche\Monthly\masterfile_2015_04.dta"
**Dropping children data
drop if cat=="child"
tab _m
//the number of observations with _m==3 must match the total number of adults in the masterfile
drop _m

***Merging with monthly patient file to obtain age data
merge n:n patid using "R:\HPIRG\Flu-CATs\Last tranche\Monthly\patient_2015_04.dta"
drop if cat=="child"
**Keeping only unique consultations (dropping duplicates)
bys patid submit_date: gen new=_n
tab new
keep if new==1
count // this must equal the total number of adults in the clean monthly form file
drop _m

***Calculating the PMEWS
gen pmews_rr =.
order pmews_rr, after(respiratoryratevalue)
replace pmews_rr=3 if (respiratoryratevalue <=8  | respiratoryratevalue >=30) & (respiratoryratevalue != .)
replace pmews_rr=0 if (respiratoryratevalue >8 & respiratoryratevalue <19) &(respiratoryratevalue != .)
```

```
replace pmews_rr=1 if (respiratoryratevalue >18 & respiratoryratevalue <26) &(respiratoryratevalue != .)
replace pmews_rr=2 if (respiratoryratevalue >25 & respiratoryratevalue <30) &(respiratoryratevalue != .)

gen pmews_o2=.
order pmews_o2 pmews_rr, after(peripheraloxygensaturationvalue)
replace pmews_o2=3 if (peripheraloxygensaturationvalue <89) & (peripheraloxygensaturationvalue !=.)
replace pmews_o2=2 if (peripheraloxygensaturationvalue >88 & peripheraloxygensaturationvalue <94) &
(peripheraloxygensaturationvalue !=.)
replace pmews_o2=1 if (peripheraloxygensaturationvalue >93 & peripheraloxygensaturationvalue <97) &
(peripheraloxygensaturationvalue !=.)
replace pmews_o2=0 if (peripheraloxygensaturationvalue >96) & (peripheraloxygensaturationvalue !=.)

gen pmews_hr=.
order pmews_hr, after(heartratevalue)
replace pmews_hr=3 if (heartratevalue <=40 | heartratevalue >= 130) & (heartratevalue !=.)
replace pmews_hr=2 if (heartratevalue >40 & heartratevalue <51) & (heartratevalue !=.)
replace pmews_hr=2 if (heartratevalue >110 & heartratevalue <130) & (heartratevalue !=.)
replace pmews_hr=1 if (heartratevalue >100 & heartratevalue <111) & (heartratevalue !=.)
replace pmews_hr=0 if (heartratevalue >50 & heartratevalue <101) & (heartratevalue !=.)

gen pmews_sysbp=.
order pmews_sysbp, after(bloodpressuresystolic)
replace pmews_sysbp=3 if (bloodpressuresystolic <=70) & (bloodpressuresystolic !=.)
replace pmews_sysbp=2 if (bloodpressuresystolic >70 & bloodpressuresystolic <91) & (bloodpressuresystolic !=.)
replace pmews_sysbp=1 if (bloodpressuresystolic >90 & bloodpressuresystolic <101) & (bloodpressuresystolic !=.)
replace pmews_sysbp=0 if (bloodpressuresystolic >100) & (bloodpressuresystolic !=.)

gen pmews_temp=.
order pmews_temp, after(temperaturevalue)
replace pmews_temp=2 if (temperaturevalue <=35 | temperaturevalue >=39) & (temperaturevalue !=.)
replace pmews_temp=1 if (temperaturevalue >35 & temperaturevalue <36.1) & (temperaturevalue !=.)
replace pmews_temp=1 if (temperaturevalue >=38 & temperaturevalue <39) & (temperaturevalue !=.)
replace pmews_temp=0 if (temperaturevalue >36 & temperaturevalue <38) & (temperaturevalue !=.)

gen pmews_neuro=.
order pmews_neuro, after(newalteredconsciouslevel)
replace pmews_neuro=0 if newalteredconsciouslevel== 0
replace pmews_neuro=1 if newalteredconsciouslevel== 1
replace pmews_neuro=2 if newalteredconsciouslevel== 2
replace pmews_neuro=3 if newalteredconsciouslevel== 3

gen year_of_consultation=year(submit_date)
gen age_at_consultation=year_of_consultation-year
gen pmews_age65=1 if age_at_consultation>=65 & age_at_consultation !=.
replace pmews_age65=0 if age_at_consultation<65 & age_at_consultation !=.

gen pmews_living=1 if socialisolation==1
replace pmews_living=0 if socialisolation==0

gen pmews_chronic=1 if cardiovascular==1| liver==1| neurological==1| renal==1| respiratory==1| diabetes==1| immune_supression==1
replace pmews_chronic=0 if cardiovascular==0| liver==0| neurological==0| renal==0| respiratory==0| diabetes==0|
immune_supression==0

gen pmews_performance=1 if performancestatus==5
replace pmews_performance=2 if performancestatus==4
replace pmews_performance=3 if performancestatus==3
replace pmews_performance=4 if performancestatus==2
replace pmews_performance=5 if performancestatus==1

gen
total_pmews=pmews_rr+pmews_o2+pmews_hr+pmews_sysbp+pmews_temp+pmews_neuro+pmews_age65+pmews_living+pmews_chr
onic+pmews_performance
gen pmews2=1 if total_pmews>=2 & total_pmews !=.
replace pmews2=0 if total_pmews<2 & total_pmews !=.

gen total_cats=CAT_triage_A+CAT_triage_B+CAT_triage_C+CAT_triage_D+CAT_triage_E+CAT_triage_F+CAT_triage_G
gen cats3=1 if total_cats>=3 & total_cats !=.
replace cats3=0 if total_cats<3 & total_cats !=.

//The CATs and the PMEWS score can now be compared.
```