Subject: vaccination coverage
Posted by Touré on Mon, 14 Aug 2023 09:51:39 GMT
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Hello Dear Experts
I am new to using EDS databases.
I am trying to assess the vaccination status of children from 12 months to 23 months using the Burundi DHS 2016-2017 in order to use it as a covariate. I followed the steps of the STATA code. However, my results are different from those in the report.
Could you tell me my errors or give an idea.
thank you

```
*La vaccination concerne les enfants de 12 à 23 mois
*** Two age groups used for reporting.
 * choose age group of interest
 *
gen agegroup=0
replace agegroup=1 if age_nourrissons>=12 & age_nourrissons<=23

 */

 /*
 gen agegroup=0
 replace agegroup=1 if age>=24 & age<=35
 */

* selecting children
keep if agegroup==1
keep if b5==1
br agegroup age_nourrissons

* Source of vaccination information. We need this variable to code vaccination indicators by source.
recode possessioncartesanté (1=1 "card") (else=2 "mother"), gen(source)
*** BCG ***
//BCG either source
recode BCG (1 2 3=1) (else=0), gen(ch_bcg_either)
//BCG mother's report
gen ch_bcg_moth=ch_bcg_either
replace ch_bcg_moth=0 if source==1
//BCG by card
gen ch_bcg_card=ch_bcg_either
replace ch_bcg_card=0 if source==2
label var ch_bcg_card "vaccination BCG à partir de la carte"
label var ch_bcg_moth "BCG vaccination according to mother"
label var ch_bcg_either "vaccination BCG autre source"
*** Pentavalent ***
//DPT 1, 2, 3 either source
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recode PENTA1 (1 2 3=1) (else=0), gen(dpt1)
recode PENTA2 (1 2 3=1) (else=0), gen(dpt2)
recode PENTA3 (1 2 3=1) (else=0), gen(dpt3)
gen somme_penta= dpt1+dpt2+dpt3

* cette étape est réalisée pour les vaccins multidoses afin de combler les éventuelles
lacunes dans l'historique des vaccinations
* pour plus d'explication
gen ch_pent1_either=somme_penta>=1
gen ch_pent2_either=somme_penta>=2
gen ch_pent3_either=somme_penta>=3

//PENTA 1 2 et 3 rapportés par la mère
gen ch_pent1_mère=ch_pent1_either
replace ch_pent1_mère=0 if source==1

gen ch_pent2_mère=ch_pent2_either
replace ch_pent2_mère=0 if source==1

gen ch_pent3_mère=ch_pent3_either
replace ch_pent3_mère=0 if source==1

//PENTA 1 2 ET 3 SELON LA CARTE
gen ch_pent1_carte=ch_pent1_either
replace ch_pent1_carte=0 if source==2

gen ch_pent2_carte=ch_pent2_either
replace ch_pent2_carte=0 if source==2

gen ch_pent3_carte=ch_pent3_either
replace ch_pent3_carte=0 if source==2

drop dpt1 dpt2 dpt3 somme_penta

label var ch_pent1_carte "Pentavalent 1st dose vaccination according to card"
label var ch_pent1_mère "Pentavalent 1st dose vaccination according to mother"
label var ch_pent1_either "Pentavalent 1st dose vaccination according to either source"
label var ch_pent2_carte "Pentavalent 2nd dose vaccination according to card"
label var ch_pent2_mère "Pentavalent 2nd dose vaccination according to mother"
label var ch_pent2_either "Pentavalent 2nd dose vaccination according to either source"
label var ch_pent3_carte "Pentavalent 3rd dose vaccination according to card"
label var ch_pent3_mère "Pentavalent 3rd dose vaccination according to mother"
label var ch_pent3_either "Pentavalent 3rd dose vaccination according to either source"

*** Polio ***

//polio 0, 1, 2, 3 autres sources
recode POLIO0 (1 2 3=1) (else=0), gen(ch_polio0_either)
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recode POLIO1 (1 2 3=1) (else=0), gen(polio1)
recode POLIO2 (1 2 3=1) (else=0), gen(polio2)
recode POLIO3 (1 2 3=1) (else=0), gen(polio3)
gen poliosum=polio1 + polio2 + polio3

* cette étape est réalisée pour les vaccins multidoses afin de combler les éventuelles
lacunes dans l'historique des vaccinations
* pour plus d'explication
gen ch_polio1_either=poliosum>=1
gen ch_polio2_either=poliosum>=2
gen ch_polio3_either=poliosum>=3

//polio 0, 1, 2, 3 rapporté par la mère
gen ch_polio0_mère=ch_polio0_either
replace ch_polio0_mère=0 if source==1

gen ch_polio1_mère=ch_polio1_either
replace ch_polio1_mère=0 if source==1

gen ch_polio2_mère=ch_polio2_either
replace ch_polio2_mère=0 if source==1

gen ch_polio3_mère=ch_polio3_either
replace ch_polio3_mère=0 if source==1

//polio 0, 1, 2, 3 selon la carte
gen ch_polio0_carte=ch_polio0_either
replace ch_polio0_carte=0 if source==2

gen ch_polio1_carte=ch_polio1_either
replace ch_polio1_carte=0 if source==2

gen ch_polio2_carte=ch_polio2_either
replace ch_polio2_carte=0 if source==2

gen ch_polio3_carte=ch_polio3_either
replace ch_polio3_carte=0 if source==2

drop poliosum polio1 polio2 polio3

label var ch_polio0_carte "Polio at birth vaccination according to card"
label var ch_polio0_mère "Polio at birth vaccination according to mother"
label var ch_polio0_either "Polio at birth vaccination according to either source"
label var ch_polio1_carte "Polio 1st dose vaccination according to card"
label var ch_polio1_mère "Polio 1st dose vaccination according to mother"
label var ch_polio1_either "Polio 1st dose vaccination according to either source"
label var ch_polio2_carte "Polio 2nd dose vaccination according to card"
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label var ch_polio2_mère "Polio 2nd dose vaccination according to mother"
label var ch_polio2_either "Polio 2nd dose vaccination according to either source"
label var ch_polio3_carte "Polio 3rd dose vaccination according to card"
label var ch_polio3_mère "Polio 3rd dose vaccination according to mother"
label var ch_polio3_either "Polio 3rd dose vaccination according to either source"

*** Pneumococcal  ***
//Pneumococcal 1, 2, 3 either source
drop pcv13_1 pcv13_2 pcv13_3
recode PCV13_1 (1 2 3=1) (else=0), gen(pcv13_1)
recode PCV13_2 (1 2 3=1) (else=0), gen(pcv13_2)
recode PCV13_3 (1 2 3=1) (else=0), gen(pcv13_3)
gen pcv13sum= pcv13_1+pcv13_2+pcv13_3

* cette étape est réalisée pour les vaccins multidoses afin de combler les éventuelles
lacunes dans l'historique des vaccinations
* pour plus d'explication
gen ch_pneumo1_either=pcv13sum>=1
gen ch_pneumo2_either=pcv13sum>=2
gen ch_pneumo3_either=pcv13sum>=3

//Pneumococcal 1, 2, 3 rapporté par la mère
gen ch_pneumo1_moth=ch_pneumo1_either
replace ch_pneumo1_moth=0 if source==1

gen ch_pneumo2_moth=ch_pneumo2_either
replace ch_pneumo2_moth=0 if source==1

gen ch_pneumo3_moth=ch_pneumo3_either
replace ch_pneumo3_moth=0 if source==1

//Pneumococcal 1, 2, 3 par la carte
gen ch_pneumo1_card=ch_pneumo1_either
replace ch_pneumo1_card=0 if source==2

gen ch_pneumo2_card=ch_pneumo2_either
replace ch_pneumo2_card=0 if source==2

gen ch_pneumo3_card=ch_pneumo3_either
replace ch_pneumo3_card=0 if source==2

drop pcv13_1 pcv13_2 pcv13_3 pcv13sum

label var ch_pneumo1_card "Pneumococcal 1st dose vaccination according to card"
label var ch_pneumo1_moth "Pneumococcal 1st dose vaccination according to mother"
label var ch_pneumo1_either "Pneumococcal 1st dose vaccination according to either source"
label var ch_pneumo2_card "Pneumococcal 2nd dose vaccination according to card"
label var ch_pneumo2_moth "Pneumococcal 2nd dose vaccination according to mother"
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label var ch_pneumo2_either "Pneumococcal 2nd dose vaccination according to either source"
label var ch_pneumo3_card "Pneumococcal 3rd dose vaccination according to card"
label var ch_pneumo3_moth "Pneumococcal 3rd dose vaccination according to mother"
label var ch_pneumo3_either "Pneumococcal 3rd dose vaccination according to either source"

*** Rotavirus  ****
//Rotavirus 1, 2,  either source
drop rotav1 rotav2
recode ROTA1 (1 2 3=1) (else=0), gen(rotav1)
recode ROTA2 (1 2 3=1) (else=0), gen(rotav2)

gen rotavsum= rotav1+rotav2

* cette étape est réalisée pour les vaccins multidoses afin de combler les éventuelles
lacunes dans l'historique des vaccinations
* pour plus d'explication
gen ch_rotav1_either=rotavsum>=1
gen ch_rotav2_either=rotavsum>=2
gen ch_rotav3_either=rotavsum>=3

//Rotavirus 1, 2, 3 mother's report
gen ch_rotav1_moth=ch_rotav1_either
replace ch_rotav1_moth=0 if source==1

gen ch_rotav2_moth=ch_rotav2_either
replace ch_rotav2_moth=0 if source==1

//Rotavirus 1, 2, 3 by card
gen ch_rotav1_card=ch_rotav1_either
replace ch_rotav1_card=0 if source==2

gen ch_rotav2_card=ch_rotav2_either
replace ch_rotav2_card=0 if source==2

drop rotav1 rotav2 rotavsum

label var ch_rotav1_card "Rotavirus 1st dose vaccination according to card"
label var ch_rotav1_moth "Rotavirus 1st dose vaccination according to mother"
label var ch_rotav1_either "Rotavirus 1st dose vaccination according to either source"
label var ch_rotav2_card "Rotavirus 2nd dose vaccination according to card"
label var ch_rotav2_moth "Rotavirus 2nd dose vaccination according to mother"
label var ch_rotav2_either "Rotavirus 2nd dose vaccination according to either source"


*** Hib  ****
//hib 1, 2, 3 either source
drop hib1 hib2 hib3
recode HiB1 (1 2 3=1) (else=0), gen(hib1)
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recode HiB2 (1 2 3=1) (else=0), gen(hib2)
recode HiB3 (1 2 3=1) (else=0), gen(hib3)
gen hibsum= hib1 + hib2 + hib3

* cette étape est réalisée pour les vaccins multidoses afin de combler les éventuelles
lacunes dans l'historique des vaccinations
* pour plus d'explication
gen ch_hib1_either=hibsum>=1
gen ch_hib2_either=hibsum>=2
gen ch_hib3_either=hibsum>=3

//hib 1, 2, 3 mother's report
gen ch_hib1_moth=ch_hib1_either
replace ch_hib1_moth=0 if source==1

gen ch_hib2_moth=ch_hib2_either
replace ch_hib2_moth=0 if source==1

gen ch_hib3_moth=ch_hib3_either
replace ch_hib3_moth=0 if source==1

//Rotavirus 1, 2, 3 by card
gen ch_hib1_card=ch_hib1_either
replace ch_hib1_card=0 if source==2

gen ch_hib2_card=ch_hib2_either
replace ch_hib2_card=0 if source==2

gen ch_hib3_card=ch_hib3_either
replace ch_hib3_card=0 if source==2

drop hib1 hib2 hib3 hibsum

label var ch_hib1_card "hib 1st dose vaccination according to card"
label var ch_hib1_moth "hib 1st dose vaccination according to mother"
label var ch_hib1_either "hib 1st dose vaccination according to either source"
label var ch_hib2_card "hib 2nd dose vaccination according to card"
label var ch_hib2_moth "hib 2nd dose vaccination according to mother"
label var ch_hib2_either "hib 2nd dose vaccination according to either source"
label var ch_hib3_card "hib third dose vaccination according to card"
label var ch_hib3_moth "hib third dose vaccination according to mother"
label var ch_hib3_either "hib third dose vaccination according to either source"

******VPI*****
//VPI either source
recode VPI (1 2 3=1) (else=0), gen(ch_vpi_either)

//vpi mother's report
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gen ch_vpi_moth=ch_vpi_either
replace ch_vpi_moth=0 if source==1

//vpi by card
gen ch_vpi_card=ch_vpi_either
replace ch_vpi_card=0 if source==2

label var ch_vpi_card "vpi vaccination according to card"
label var ch_vpi_moth "vpi vaccination according to mother"
label var ch_vpi_either "vpi vaccination according to either source"

*** ROUGEOLE ***
//rougeole either source
recode ROUGEOLE1 (1 2 3=1) (else=0), gen(meas1)
recode ROUGEOLE2 (1 2 3=1) (else=0), gen(meas2)
gen meassum= meas1 + meas2

* cette étape est réalisée pour les vaccins multidoses afin de combler les éventuelles
lacunes dans l'historique des vaccinations
* pour plus d'explication
gen ch_meas1_either=meassum>=1
gen ch_meas2_either=meassum>=2

//rougeole 1, 2, mother's report
gen ch_meas1_moth=ch_meas1_either
replace ch_meas1_moth=0 if source==1

gen ch_meas2_moth=ch_meas2_either
replace ch_meas2_moth=0 if source==1


//rougeole 1, 2,  by card
gen ch_meas1_card=ch_meas1_either
replace ch_meas1_card=0 if source==2

gen ch_meas2_card=ch_meas2_either
replace ch_meas2_card=0 if source==2

drop meas1 meas2 meassum

label var ch_meas1_card "rougeole 1st dose vaccination according to card"
label var ch_meas1_moth "rougeole 1st dose vaccination according to mother"
label var ch_meas1_either "rougeole 1st dose vaccination according to either source"
label var ch_meas2_card "rougeole 2nd dose vaccination according to card"
label var ch_meas2_moth "rougeole 2nd dose vaccination according to mother"
label var ch_meas2_either "rougeole 2nd dose vaccination according to either source"
```

*** All vaccinations *** calcul de 3 couvertures vaccinales
gen ch_allvac_either=ch_bcg_either==1&ch_pent3_either==1&amp
;ch_polio3_either==1&ch_meas2_either==1
label var ch_allvac_either "All basic vaccinations according to either source"
tab ch_allvac_either [iw= weight_femme_individuel/1000000] //17.87%

gen ch_allvac_moth=ch_allvac_either
replace ch_allvac_moth=0 if source==1
label var ch_allvac_moth "All basic vaccinations according to mother"
tab ch_allvac_moth [iw= weight_femme_individuel/1000000] //5.25%

gen ch_allvac_card=ch_allvac_either
replace ch_allvac_card=0 if source==2
label var ch_allvac_card "All basic vaccinations according to card"
tab ch_allvac_card [iw= weight_femme_individuel/1000000] //12.62%

*** vaccination card possession ***
recode possessioncartesanté(1/3=1) (else=0), gen(ch_card_ever_had)
label var ch_card_ever_had "Ever had a vaccination card"
tab ch_card_ever_had [iw= weight_femme_individuel/1000000] //97.23% des enfants de 12 à 23 mois ont déjà eu un carnet de vaccination.

recode possessioncartesanté (1=1) (else=0), gen(ch_card_seen)
label var ch_card_seen "Vaccination card seen"

tab ch_card_seen [iw= weight_femme_individuel/1000000] //83.77% contre 85% pour le rapport EDS