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Subject: Creating h3, h5 and h7 variables  
Posted by [j5anderson](#) on Wed, 31 Jul 2013 18:26:57 GMT  
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Hello,

I have a question about how h3, h5 and h7 variables are created. In the DHS women's questionnaire, there are options for the interviewer to code '44' if the mother showed a vaccination card and there was an indication that the vaccine was received, but did not have a corresponding date. There is also an option for coding '66' for the day of the vaccination date if the mother indicated that the DPT vaccine was received but was not recorded on the card. How are these responses handled in calculating h3, h5 and h7 variables for DPT1-3? I am using a Coverage Evaluation Survey (CES) data set, which employs the same questionnaire format for vaccinations and would like to create variables identical to h3, h5 and h7 in DHS datasets. Thanks for any help,

John

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Subject: Re: Creating h3, h5 and h7 variables  
Posted by [Liz-DHS](#) on Thu, 05 Sep 2013 21:54:27 GMT  
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Dear User,

You may want to refer to the Standard Recode Manual  
[http://www.measuredhs.com/pubs/pdf/DHSG4/Recode6\\_DHS\\_22March2013\\_DHSG4.pdf](http://www.measuredhs.com/pubs/pdf/DHSG4/Recode6_DHS_22March2013_DHSG4.pdf) and look at REC43 Health History. The sections are bookmarked. Rec43 will give you an idea of how these variables are used. You might also want to refer to The Guide to DHS Statistics  
[http://www.measuredhs.com/pubs/pdf/DHSG1/Guide\\_to\\_DHS\\_Statistics\\_29Oct2012\\_DHSG1.pdf](http://www.measuredhs.com/pubs/pdf/DHSG1/Guide_to_DHS_Statistics_29Oct2012_DHSG1.pdf). There is a section on Vaccination Rates bookmarked.

Below is some code from one of our standard applications. This may shed some light on these vaccination variables.

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```
PROC AWSEC5A_EDT
  if V015 = 1 then
    for i in AWSEC5A_EDT do
      idx = V201 - A502 + 1;
      if i <> idx then errmsg( 4300, i, idx ) endif;
      if V008 - B3(idx) < 12*hsecs then
        { IDX95(i) = idx; }          { index for cs section }
        HIDX(i) = idx;

        if B5(i) then                { Child alive }

        { Has health card }
        if A504 in 3,missing then
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if A505 = 1 then
  H1(i) = 3
elseif A505 = missing then
  H1(i) = missing
else
  H1(i) = 0
endif
else
  H1(i) = A504
endif;
{ BCG }
H2(i) = vrec( D506B, M506B, Y506B, A510A, (A510A=1), 1 );
if H2(i) <> 1 then
  H2D(i) = notappl;
  H2M(i) = notappl;
  H2Y(i) = notappl;
else
  H2D(i) = D506B;
  H2M(i) = M506B;
  H2Y(i) = Y506B;
endif;
{ DPT 1 }
H3(i) = vrec( D506D1, M506D1, Y506D1, A510E, A510F, 1 );
if H3(i) <> 1 then
  H3D(i) = notappl;
  H3M(i) = notappl;
  H3Y(i) = notappl;
else
  H3D(i) = D506D1;
  H3M(i) = M506D1;
  H3Y(i) = Y506D1;
endif;
{ POLIO 1 }
H4(i) = vrec( D506P1, M506P1, Y506P1, A510B, A510D, 1+(A510C=1) );
if H4(i) <> 1 then
  H4D(i) = notappl;
  H4M(i) = notappl;
  H4Y(i) = notappl;
else
  H4D(i) = D506P1;
  H4M(i) = M506P1;
  H4Y(i) = Y506P1;
endif;
{ DPT 2 }
H5(i) = vrec( D506D2, M506D2, Y506D2, A510E, A510F, 2 );
if H5(i) <> 1 then
  H5D(i) = notappl;
  H5M(i) = notappl;

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    H5Y(i) = notappl;
else
    H5D(i) = D506D2;
    H5M(i) = M506D2;
    H5Y(i) = Y506D2;
endif;
{ POLIO 2 }
H6(i) = vrec( D506P2, M506P2, Y506P2, A510B, A510D, 2+(A510C=1) );
if H6(i) <> 1 then
    H6D(i) = notappl;
    H6M(i) = notappl;
    H6Y(i) = notappl;
else
    H6D(i) = D506P2;
    H6M(i) = M506P2;
    H6Y(i) = Y506P2;
endif;
{ DPT 3 }
H7(i) = vrec( D506D3, M506D3, Y506D3, A510E, A510F, 3 );
if H7(i) <> 1 then
    H7D(i) = notappl;
    H7M(i) = notappl;
    H7Y(i) = notappl;
else
    H7D(i) = D506D3;
    H7M(i) = M506D3;
    H7Y(i) = Y506D3;
endif;
{ POLIO 3 }
H8(i) = vrec( D506P3, M506P3, Y506P3, A510B, A510D, 3+(A510C=1) );
if H8(i) <> 1 then
    H8D(i) = notappl;
    H8M(i) = notappl;
    H8Y(i) = notappl;
else
    H8D(i) = D506P3;
    H8M(i) = M506P3;
    H8Y(i) = Y506P3;
endif;
{ MEASLES }
H9(i) = vrec( D506M, M506M, Y506M, A510G, (A510G=1), 1 );
if H9(i) <> 1 then
    H9D(i) = notappl;
    H9M(i) = notappl;
    H9Y(i) = notappl;
else
    H9D(i) = D506M;
    H9M(i) = M506M;

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    H9Y(i) = Y506M;
endif;
{ POLIO 0 }
H0(i) = vrec( D506P0, M506P0, Y506P0, A510B, (A510C=1), 1 );
if H0(i) <> 1 then
    H0D(i) = notappl;
    H0M(i) = notappl;
    H0Y(i) = notappl;
else
    H0D(i) = D506P0;
    H0M(i) = M506P0;
    H0Y(i) = Y506P0;
endif;
{ Ever had vaccination }
H10(i) = YesNo( A509 );

{ Diarrhea recently }
if A514 = 1 then
    H11(i) = 2
elseif A514 = 8 then
    H11(i) = 8
elseif A514 = missing then
    H11(i) = missing
else
    H11(i) = 0
endif;
H11B(i) = YesNo( A515 );

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