



INCIDENT EVENTS 2008-2015 DERIVED VARIABLE DICTIONARY

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Version 1.0 – Investigator Use Data Sets (_INV1 data file)

HCHS/SOL Incident Events 2008-2015 Derived Variable Dictionary

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1. CENSORING and FOLLOW-UP TIME

1.1 Death (Death reported by AFT, GHE or DTH, 2008-2015)

Deceased case reported by the end of 2015 from the following source:

If AFT5=8 or GHE1=5 or Death Certificate Form (DTH) created, the participant will be classified as deceased, Death=1. Otherwise set as 0.

Response format: 0=Not deceased (No)
1=Deceased (Yes)

Source variable(s):

ATF5. Annual Follow-up tracking status in ATF form.

GHE1. Annual Follow-up participants status in AFU interview.

Death Certificate Form (DTH) created.

1.2 FUTIME_Death (Follow up time of Death, or end of follow-up by 2015)

Define Death_Date based on (AFT0a, or GHE0a or DTH0a) when death reported by corresponding form.

This is the follow-up time for the death happened during 2008-2015.

When Death_date is not missing, follow-up time to Death (FUTIME_Death) =
Death_date - Clindate form part_derv from baseline.

Otherwise, FUTIME_Death=12/31/2015-Clindate.

Source variable(s):

Death_Date. death date based on (AFT0a, or GHE0a or DTH0a) when death reported by corresponding form.

Clindate. Baseline clinic date.

1.3 Withdrawal (Withdrawal classified by ICT, 2008-2015)

Participants will be classified as withdrawal case when responded NO in both yearly contact and for future studies during 2008-2015:

If ICT1=0 AND ICT8=0 then the participant will be classified as Withdrawal=1. Otherwise set as 0.

Response format: 0=Not Withdrawal (No)
1=Withdrawal (Yes)

Source variable(s):

ICT1. Agrees to yearly contact by HCHS/SOL staff to answer questions about health & address.

ICT8. Agrees to allow HCHS/SOL staff to contact them about participating in future health-related studies.

1.4 FUTIME_Withdrawal (Follow up time Withdrawal, or end of follow-up by 2015)

Define Withdrawal_Date based on (ICT0a) when withdrawal reported by ICT form.

This is the follow-up time for the Withdrawal happened during 2008-2015.

When Withdrawal_date is not missing, follow-up time to Withdrawal (FUTIME_Withdrawal) = Withdrawal_date - Clindate form part_derv from baseline.

Otherwise, FUTIME_Withdrawal=12/31/2015-Clindate.

Source variable(s):

Withdrawal_Date. Withdrawal date based on (ICT0a) when withdrawal happened.
Clindate. Baseline clinic date.

1.5 Censor (defined as Death or withdrawal during 2008-2015)

Participants will be classified as censor case when deceased or withdrawal happened, during 2008-2015:

If Death=1 or Withdrawal=1 then the participant will be classified as Censor=1. Otherwise set as 0.

Response format: 0=Not censored (No)
1=Censored (Yes)

Source variable(s):

Death. Death reported by AFT, GHE or DTH, 2008-2015.

Withdrawal. Withdrawal classified by ICT, 2008-2015.

1.6 FUTIME_Censor (Follow up time of Censoring, or end of follow-up by 2015)

Define Censor_Date based on (AFT0a, or GHE0a or DTH0a) when death reported by corresponding form, or based on (ICT0a) when withdrawal classified in ICT form.

This is the follow-up time for the Censor happened during 2008-2015.

When Censor_date is not missing, follow-up time to Censor (FUTIME_Censor) = Censor_date - Clindate form part_derv from baseline.

Otherwise, FUTIME_Censor=12/31/2015-Clindate.

Source variable(s):

Censor_Date. death date based on (AFT0a, or GHE0a or DTH0a) or Withdrawal date based on (ICT0a) when applicable.

Clindate. Baseline clinic date.

2. Myocardial Infarction (MI) Events

2.1 INCIDENT_MI_2015 (Incident Myocardial Infarction (MI) Event by 2015)

This is a 0/1 variable indicating the myocardial infarction (MI) events reported and classified by HCHS/SOL endpoint reviewers.

IF baseline PreCHD_No_Angina not =1, then do:

IF (MID14 in(1,2) | MID24 in(1,2) | MID34 in(1,2)) among event review completed cases by 12/31/2015, then Incident_MI = 1. Otherwise Incident_MI = 0

Data needs to be transposed from multiple events into summary event record for a participant over time (reshape the data structure from long to wide).

When the first incident MI event happens, Incident_MI_2015=1. Otherwise set Incident_MI_2015 as 0.

Response format: 0=No Incident MI (No)
1=Incident MI (Yes)

Source variable(s):

MID14. Myocardial infarction classification in the 1st MID form Q4.

MID24. Myocardial infarction classification in the 2nd MID form Q4.

MID34. Myocardial infarction classification in the 3rd MID (adjudication) form Q4.

Event_status_MI. Event status for MI, when MID1 and MID2 classifications match, or MID3 presented, the event review completed.

2.2 RECUR_MI_2015_1 (MI as 1st Recurrence MI 2015)

This is a 0/1 variable indicating the first Recurrence MI events reported and classified by HCHS/SOL endpoint reviewers, among the participants who already had incident MI classified during 2008-2015.

Rank the incident MI events happened up to 12/31/2015 within each subjectID by Eventdate_MI, Rename the 2nd incident_MI as Recur_MI_2015_1.

Response format: 0=Not the first Recur MI (No)
1=the first Recur MI (Yes)

Source variable(s):

MID14. Myocardial infarction classification in the 1st MID form Q4.

MID24. Myocardial infarction classification in the 2nd MID form Q4.

MID34. Myocardial infarction classification in the 3rd MID (adjudication) form Q4.

Event_status_MI. Event status for MI, when MID1 and MID2 classifications match, or MID3 presented, the event review completed.

2.3 RECUR_MI_2015_2 (MI as 2nd Recurrence MI 2015)

This is a 0/1 variable indicating the 2nd Recurrence MI events reported and classified by HCHS/SOL endpoint reviewers, among the participants who already had 2 times incident MI classified during 2008-2015.

Rank the MI events happened up to 12/31/2015 within each subjectID by Eventdate_MI, Rename the 3rd incident_MI as Recur_MI_2015_2.

Response format: 0=Not the 2nd Recur MI (No)
1=the 2nd Recur MI (Yes)

Source variable(s):

MID14. Myocardial infarction classification in the 1st MID form Q4.

MID24. Myocardial infarction classification in the 2nd MID form Q4.

MID34. Myocardial infarction classification in the 3rd MID (adjudication) form Q4.

Event_status_MI. Event status for MI, when MID1 and MID2 classifications match, or MID3 presented, the event review completed.

2.4 RECUR_MI_2015_3 (MI as 3rd Recurrence MI 2015)

This is a 0/1 variable indicating the 3rd Recurrence MI events reported and classified by HCHS/SOL endpoint reviewers, among the participants who already had 3 times incident MI classified during 2008-2015.

Rank the MI events happened up to 12/31/2015 within each subjectID by Eventdate_MI, Rename the 4th incident_MI as Recur_MI_2015_3.

Response format: 0=Not the 3rd Recur MI (No)
1=the 3rd Recur MI (Yes)

Source variable(s):

MID14. Myocardial infarction classification in the 1st MID form Q4.

MID24. Myocardial infarction classification in the 2nd MID form Q4.

MID34. Myocardial infarction classification in the 3rd MID (adjudication) form Q4.

Event_status_MI. Event status for MI, when MID1 and MID2 classifications match, or MID3 presented, the event review completed.

2.5 FUTIME_MI (Follow up time MI event, censoring, or end of follow-up by 2015)

Define Eventdate_MI based on (MID10d, or MID20d or MID30d), the non-missing of these 3 date variables should be same for same event ID (MID10c, MID20c, MID30c).

This is the follow-up time for the first MI event during 2008-2015.

Follow-up time to MI event (FUTIME_MI) = Eventdate - Clindate form part_derv from baseline.

Otherwise, when Censor_date is not missing form censor data, FUTIME_MI=Censor_date-Clindate.

Otherwise, FUTIME_MI=12/31/2015-Clindate.

Source variable(s):

Eventdate_MI. event date based on (MID10d, or MID20d or MID30d)

Censor_date. Death or withdrawal date.

Clindate. Baseline clinic date.

2.6 FUTIME_MI_1 (Follow up time 1st Recurrence MI)

This is the follow-up time for the first Recurrence MI event during 2008-2015.

Source variable(s):

Eventdate_MI. event date based on (MID10d, or MID20d or MID30d)

Censor_date. Death or withdrawal date.

Clindate. Baseline clinic date.

RECUR_MI_2015_1.

2.7 FUTIME_MI_2 (Follow up time 2nd Recurrence MI)

This is the follow-up time for the second Recurrence MI event during 2008-2015.

Source variable(s):

Eventdate_MI. event date based on (MID10d, or MID20d or MID30d)

Censor_date. Death or withdrawal date.

Clindate. Baseline clinic date.

RECUR_MI_2015_2.

2.8 FUTIME_MI_3 (Follow up time 3rd Recurrence MI)

This is the follow-up time for the third Recurrence MI event during 2008-2015.

Source variable(s):

Eventdate_MI. event date based on (MID10d, or MID20d or MID30d)

Censor_date. Death or withdrawal date.

Clindate. Baseline clinic date.

RECUR_MI_2015_3.

3. Heart Failure (HF) Events

3.1 INCIDENT_HF_2015 (Incident Heart Failure (HF) Event by 2015)

This is a 0/1 variable indicating the Heart Failure (HF) events reported and classified by HCHS/SOL endpoint reviewers.

IF MHEA5 (from MHEA_IU1) not =1, then do:

IF (HFD19 in(1,2) | HFD29 in(1,2) | HFD39 in(1,2)) among event review completed cases by 12/31/2015, then Incident_HF = 1. Otherwise set Incident_HF = 0

Data needs to be transposed from multiple events into summary event record for a participant over time (reshape the data structure from long to wide).

When the first incident HF event happens, Incident_HF_2015=1. Otherwise set Incident_HF_2015 as 0.

Response format: 0=No Incident HF (No)
1=Incident HF (Yes)

Source variable(s):

HFD19. Does this patient have acute decompensated heart failure (ADHF)? In the HFD1 form Q9.
HFD29. Does this patient have acute decompensated heart failure (ADHF)? In the HFD2 form Q9.
HFD39. Does this patient have acute decompensated heart failure (ADHF)? In the HFD3 form Q9.
Event_status_HF. Event status for HF, when HFD1 and HFD2 classifications match, or HFD3 presented, the event review completed.

3.2 RECUR_HF_2015_1 (HF as 1st Recurrence HF 2015)

This is a 0/1 variable indicating the first Recurrence HF events reported and classified by HCHS/SOL endpoint reviewers, among the participants who already had incident HF classified during 2008-2015.

Rank the HF events happened up to 12/31/2015 within each subjectID by Eventdate_HF, and Rename the 2nd incident_HF as Recur_HF_2015_1.

Response format: 0=No the first recur HF (No)
1=the first recur HF (Yes)

Source variable(s):

HFD19. Does this patient have acute decompensated heart failure (ADHF)? In the HFD1 form Q9.
HFD29. Does this patient have acute decompensated heart failure (ADHF)? In the HFD2 form Q9.
HFD39. Does this patient have acute decompensated heart failure (ADHF)? In the HFD3 form Q9.
Event_status_HF. Event status for HF, when HFD1 and HFD2 classifications match, or HFD3 presented, the event review completed.

3.3 RECUR_HF_2015_2 (HF as 2nd Recurrence HF 2015)

This is a 0/1 variable indicating the 2nd Recurrence HF events reported and classified by HCHS/SOL endpoint reviewers, among the participants who already had 2 times incident HF classified during 2008-2015.

Rank the HF events happened up to 12/31/2015 within each subjectID by Eventdate_HF, and Rename the 3rd incident_HF as Recur_HF_2015_2.

Response format: 0=No the 2nd recur HF (No)
1=the 2nd recur HF (Yes)

Source variable(s):

HFD19. Does this patient have acute decompensated heart failure (ADHF)? In the HFD1 form Q9.
HFD29. Does this patient have acute decompensated heart failure (ADHF)? In the HFD2 form Q9.
HFD39. Does this patient have acute decompensated heart failure (ADHF)? In the HFD3 form Q9.
Event_status_HF. Event status for HF, when HFD1 and HFD2 classifications match, or HFD3 presented, the event review completed.

3.4 RECUR_HF_2015_3 (HF as 3rd Recurrence HF 2015)

This is a 0/1 variable indicating the 3rd Recurrence HF events reported and classified by HCHS/SOL endpoint reviewers, among the participants who already had 3 times incident HF classified during 2008-2015.

Rank the HF events happened up to 12/31/2015 within each subjectID by Eventdate_HF, and Rename the 4th incident_HF as Recur_HF_2015_3.

Response format: 0=No the 3rd recur HF (No)
1=the 3rd recur HF (Yes)

Source variable(s):

HFD19. Does this patient have acute decompensated heart failure (ADHF)? In the HFD1 form Q9.
HFD29. Does this patient have acute decompensated heart failure (ADHF)? In the HFD2 form Q9.
HFD39. Does this patient have acute decompensated heart failure (ADHF)? In the HFD3 form Q9.
Event_status_HF. Event status for HF, when HFD1 and HFD2 classifications match, or HFD3 presented, the event review completed.

3.5 RECUR_HF_2015_4 (HF as 4th Recurrence HF 2015)

This is a 0/1 variable indicating the 4th Recurrence HF events reported and classified by HCHS/SOL endpoint reviewers, among the participants who already had 4 times incident HF classified during 2008-2015.

Rank the HF events happened up to 12/31/2015 within each subjectID by Eventdate_HF and Rename the 5th incident_HF as Recur_HF_2015_4.

Response format: 0=No the 4th recur HF (No)
1=the 4th recur HF (Yes)

Source variable(s):

HFD19. Does this patient have acute decompensated heart failure (ADHF)? In the HFD1 form Q9.
HFD29. Does this patient have acute decompensated heart failure (ADHF)? In the HFD2 form Q9.
HFD39. Does this patient have acute decompensated heart failure (ADHF)? In the HFD3 form Q9.
Event_status_HF. Event status for HF, when HFD1 and HFD2 classifications match, or HFD3 presented, the event review completed.

3.6 RECUR_HF_2015_5 (HF as 5th Recurrence HF 2015)

This is a 0/1 variable indicating the 5th Recurrence HF events reported and classified by HCHS/SOL endpoint reviewers, among the participants who already had 5 times incident HF classified during 2008-2015.

Rank the HF events happened up to 12/31/2015 within each subjectID by Eventdate_HF, and Rename the 6th incident_HF as Recur_HF_2015_5.

Response format: 0=No the 5th recur HF (No)
1=the 5th recur HF (Yes)

Source variable(s):

HFD19. Does this patient have acute decompensated heart failure (ADHF)? In the HFD1 form Q9.
HFD29. Does this patient have acute decompensated heart failure (ADHF)? In the HFD2 form Q9.
HFD39. Does this patient have acute decompensated heart failure (ADHF)? In the HFD3 form Q9.
Event_status_HF. Event status for HF, when HFD1 and HFD2 classifications match, or HFD3 presented, the event review completed.

3.7 FUTIME_HF (Follow up time HF event, censoring, or end of follow-up by 2015)

Define Eventdate_HF based on (HFD10d, or HFD20d or HFD30d), the non-missing of these 3 date variable should be same for same event ID (HFD10c, HFD20c, HFD30c).

Follow-up time to HF event (FUTIME_HF) = Eventdate_HF - Clindate form part_derv from baseline.

Otherwise, when Censor_date is not missing form C.1.1 censor data,
FUTIME_HF=Censor_date-Clindate.

Otherwise, FUTIME_HF=12/31/2015-Clindate.

Source variable(s):

Eventdate_HF. event date based on (HFD10d, or HFD20d or HFD30d)
Censor_date. Death or withdrawal date.
Clindate. Baseline clinic date.

3.8 FUTIME_HF_1 (Follow up time 1st Recurrence HF)

This is the follow-up time for the first Recurrence HF event during 2008-2015.

Source variable(s):

Eventdate_HF. event date based on (HFD10d, or HFD20d or HFD30d)
Censor_date. Death or withdrawal date.
Clindate. Baseline clinic date.
RECUR_HF_2015_1.

3.9 FUTIME_HF_2 (Follow up time 2nd Recurrence HF)

This is the follow-up time for the second Recurrence HF event during 2008-2015.

Source variable(s):

Eventdate_HF. event date based on (HFD10d, or HFD20d or HFD30d)
Censor_date. Death or withdrawal date.
Clindate. Baseline clinic date.
RECUR_HF_2015_2.

3.10 FUTIME_HF_3 (Follow up time 3rd Recurrence HF)

This is the follow-up time for the third Recurrence HF event during 2008-2015.

Source variable(s):

Eventdate_HF. event date based on (HFD10d, or HFD20d or HFD30d)
Censor_date. Death or withdrawal date.
Clindate. Baseline clinic date.
RECUR_HF_2015_3.

3.11 FUTIME_HF_4 (Follow up time 4th Recurrence HF)

This is the follow-up time for the fourth Recurrence HF event during 2008-2015.

Source variable(s):

Eventdate_HF. event date based on (HFD10d, or HFD20d or HFD30d)
Censor_date. Death or withdrawal date.
Clindate. Baseline clinic date.
RECUR_HF_2015_4.

3.12 FUTIME_HF_5 (Follow up time 5th Recurrence HF)

This is the follow-up time for the fifth Recurrence HF event during 2008-2015.

Source variable(s):

Eventdate_HF. event date based on (HFD10d, or HFD20d or HFD30d)
Censor_date. Death or withdrawal date.
Clindate. Baseline clinic date.
RECUR_HF_2015_5.

4. Pulmonary (PUL) Events

4.1 ASTHMA_PLD (Define or highly probable Asthma reported in PLD by 2015)

This is a 0/1 variable indicating the define, or highly probable Asthma reported in Pulmonary Diagnosis Form (PLD) during 2008-2015 and classified by HCHS/SOL endpoint reviewers.

Asthma_PLD = (PLD12a =1 or 2, or PLD22a =1 or 2 or PLD32a =1 or 2), label as PLD define or highly probable Asthma by 2015

Response format: 0 = No
1 = Yes

Source variable(s):

PLD12a. CLRD with Asthma sub-type reported in PLD1 form on Q2a.
PLD22a. CLRD with Asthma sub-type reported in PLD2 form on Q2a.
PLD32a. CLRD with Asthma sub-type reported in PLD3 form on Q2a.

4.2 COPD_PLD (Define or highly probable COPD reported in PLD by 2015)

This is a 0/1 variable indicating the define, or highly probable COPD reported in Pulmonary Diagnosis Form (PLD) during 2008-2015 and classified by HCHS/SOL endpoint reviewers.

COPD_PLD = (PLD12b =1 or 2, or PLD22b =1 or 2 or PLD32b =1 or 2), label as PLD define or highly probable COPD by 2015

Response format: 0 = No
1 = Yes

Source variable(s):

PLD12b. CLRD with COPD sub-type reported in PLD1 form on Q2b.
PLD22b. CLRD with COPD sub-type reported in PLD2 form on Q2b.
PLD32b. CLRD with COPD sub-type reported in PLD3 form on Q2b.

4.3 CLRD_2015 (Chronic Lower Respiratory Disease by 2015)

This is a 0/1 variable indicating the define, or highly probable Chronic Lower Respiratory Disease (CLRD) reported in Pulmonary Diagnosis Form (PLD) during 2008-2015 and classified by HCHS/SOL endpoint reviewers.

Define CLRD_2015 = ASTHMA_PLD=1 or COPD_PLD=1 among event review completed cases by 12/31/2015.

Response format: 0 = No
1 = Yes

Source variable(s):

ASTHMA_PLD. Asthma sub-type CLRD reported in Pulmonary Diagnosis form (PLD).
COPD_PLD. COPD sub-type CLRD reported in Pulmonary Diagnosis form (PLD).
Event_Status_PUL. Event status for HF, when PLD1 and PLD2 classifications match, or PLD3 presented, the event review completed.

4.4 CLRD_ASTHMA_2015 (CLRD due to Asthma by 2015)

This is a 0/1 variable indicating the define, or highly probable Chronic Lower Respiratory Disease (CLRD) due to Asthma reported in Pulmonary Diagnosis Form (PLD) during 2008-2015 and classified by HCHS/SOL endpoint reviewers.

CLRD_Asthma_2015 = (CLRD_2015=1 and Asthma_PLD=1), label as CLRD due to Asthma by 2015

Response format: 0=No
1=Yes

Source variable(s):

CLRD_2015. Chronic Lower Respiratory Disease by 2015

Asthma_PLD. Define or highly probable Asthma reported in PLD by 2015

4.5 CLRD_COPD_2015 (CLRD due to COPD by 2015)

This is a 0/1 variable indicating the define, or highly probable Chronic Lower Respiratory Disease (CLRD) due to COPD reported in Pulmonary Diagnosis Form (PLD) during 2008-2015 and classified by HCHS/SOL endpoint reviewers.

CLRD_COPD_2015 = (CLRD_2015=1 and COPD_PLD=1), label as CLRD due to COPD by 2015

Response format: 0=No
1=Yes

Source variable(s):

CLRD_2015. Chronic Lower Respiratory Disease by 2015

COPD_PLD. Define or highly probable COPD reported in PLD by 2015

4.6 Exacerbation_CLRD (Exacerbation of CLRD by 2015)

This is a 0/1 variable indicating the Exacerbation probable Chronic Lower Respiratory Disease (CLRD) cases during 2008-2015 among these already had Asthma and COPD at baseline.

Exacerbation_CLRD = where Prevalence_CLRD (Asthma_Ever=1 or COPD_Ever=1) =1 and (PLD15 =1 or 2, or PLD25 =1 or 2 or PLD35 =1 or 2),
label as Exacerbation of CLRD by 2015

Response format: 0=No
1=Yes

Source variable(s):

PLD15. Does this patient have an exacerbation of CLRD? In PLD1 at Q5.
PLD25. Does this patient have an exacerbation of CLRD? In PLD2 at Q5.
PLD35. Does this patient have an exacerbation of CLRD? In PLD3 at Q5.
Asthma_Ever. Baseline self-reported Asthma.
COPD_Ever. Baseline self-reported COPD.

4.7 FUTIME_CLRD (Follow up time CLRD event, censoring, or end of follow-up by 2015)

Define Eventdate_CLRD based on (PLD10d, or PLD20d or PLD30d), the non-missing of these 3 date variable should be same for same event ID (PLD10c, PLD20c, PLD30c).

Follow-up time to each of the CLRD event (FUTIME_CLRD) = Eventdate - Clindate form part_derv from baseline.

Otherwise, when Censor_date is not missing form censor data,
FUTIME_CLRD=Censor_date-Clindate.

Otherwise, FUTIME_CLRD=12/31/2015-Clindate.

Source variable(s):

Eventdate_CLRD. event date based on (PLD10d, or PLD20d or PLD30d)
Censor_date. Death or withdrawal date.
Clindate. Baseline clinic date.

4.8 FUTIME_CLRD_ASTHMA (Follow up time ASTHMA event, censoring, or end of follow-up by 2015)

Follow-up time to each of the Asthma event (FUTIME_CLRD_Asthma) = Eventdate - Clindate form part_derv from baseline.

Otherwise, when Censor_date is not missing form censor data,
FUTIME_CLRD_ASTHMA=Censor_date-Clindate.

Otherwise, FUTIME_CLRD_ASTHMA=12/31/2015-Clindate.

Source variable(s):

Eventdate_CLRD. event date based on (PLD10d, or PLD20d or PLD30d)
Censor_date. Death or withdrawal date.
Clindate. Baseline clinic date.
CLRD_Asthma_2015.

4.9 FUTIME_CLRD_COPD (Follow up time of COPD event, censoring, or end of follow-up by 2015)

Follow-up time to each of the COPD event (FUTIME_CLRD_COPD) = Eventdate - Clindate form part_derv from baseline.

Otherwise, when Censor_date is not missing form censor data,
FUTIME_CLRD_COPD=Censor_date-Clindate.
Otherwise, FUTIME_CLRD_COPD=12/31/2015-Clindate.

Source variable(s):

Eventdate_CLRD. event date based on (PLD10d, or PLD20d or PLD30d)
Censor_date. Death or withdrawal date.
Clindate. Baseline clinic date.
CLRD_COPD_2015