. mixed CMEP\_ Tx##time age\_yr\_0 sex\_0 || ID: , nolog

Mixed-effects ML regression Number of obs = 471

Group variable: ID Number of groups = 175

Obs per group:

min = 1

avg = 2.7

max = 3

Wald chi2(7) = 135.90

Log likelihood = -1295.4745 Prob > chi2 = 0.0000

-------------------------------------------------------------------------------

CMEP\_ | Coef. Std. Err. z P>|z| [95% Conf. Interval]

--------------+----------------------------------------------------------------

Tx |

TranS-C | -.3787526 .6542838 -0.58 0.563 -1.661125 .9036201

|

timepoint |

POST | 1.83559 .4611028 3.98 0.000 .9318452 2.739335

FU6 | 2.341118 .4790332 4.89 0.000 1.40223 3.280006

|

Tx#timepoint |

TranS-C#POST | 1.996845 .6517062 3.06 0.002 .7195247 3.274166

TranS-C#FU6 | 1.83574 .6723391 2.73 0.006 .517979 3.1535

|

age\_yr\_0 | -.2895171 .1530096 -1.89 0.058 -.5894103 .0103762

sex\_0 | .3720777 .5668456 0.66 0.512 -.7389193 1.483075

\_cons | 25.58818 2.368881 10.80 0.000 20.94526 30.2311

-------------------------------------------------------------------------------

------------------------------------------------------------------------------

Random-effects Parameters | Estimate Std. Err. [95% Conf. Interval]

-----------------------------+------------------------------------------------

ID: Identity |

var(\_cons) | 10.15033 1.44713 7.675818 13.42257

-----------------------------+------------------------------------------------

var(Residual) | 8.449383 .6901632 7.199412 9.916374

------------------------------------------------------------------------------

LR test vs. linear model: chibar2(01) = 126.82 Prob >= chibar2 = 0.0000

. contrast Tx#timepoint

Contrasts of marginal linear predictions

Margins : asbalanced

------------------------------------------------

| df chi2 P>chi2

-------------+----------------------------------

CMEP\_ |

Tx#timepoint | 2 11.58 0.0031

------------------------------------------------

. margins Tx#timepoint

Predictive margins Number of obs = 471

Expression : Linear prediction, fixed portion, predict()

-------------------------------------------------------------------------------

| Delta-method

| Margin Std. Err. z P>|z| [95% Conf. Interval]

--------------+----------------------------------------------------------------

Tx#timepoint |

PE#PRE | 21.5453 .4648897 46.34 0.000 20.63413 22.45647

PE#POST | 23.38089 .4802547 48.68 0.000 22.43961 24.32217

PE#FU6 | 23.88642 .4975131 48.01 0.000 22.91131 24.86153

TranS-C#PRE | 21.16655 .4600335 46.01 0.000 20.2649 22.0682

TranS-C#POST | 24.99898 .4814572 51.92 0.000 24.05535 25.94262

TranS-C#FU6 | 25.34341 .4919951 51.51 0.000 24.37911 26.3077

-------------------------------------------------------------------------------

. margins timepoint#Tx

Predictive margins Number of obs = 471

Expression : Linear prediction, fixed portion, predict()

-------------------------------------------------------------------------------

| Delta-method

| Margin Std. Err. z P>|z| [95% Conf. Interval]

--------------+----------------------------------------------------------------

timepoint#Tx |

PRE#PE | 21.5453 .4648897 46.34 0.000 20.63413 22.45647

PRE#TranS-C | 21.16655 .4600335 46.01 0.000 20.2649 22.0682

POST#PE | 23.38089 .4802547 48.68 0.000 22.43961 24.32217

POST#TranS-C | 24.99898 .4814572 51.92 0.000 24.05535 25.94262

FU6#PE | 23.88642 .4975131 48.01 0.000 22.91131 24.86153

FU6#TranS-C | 25.34341 .4919951 51.51 0.000 24.37911 26.3077

-------------------------------------------------------------------------------

. contrast timepoint@Tx

Contrasts of marginal linear predictions

Margins : asbalanced

------------------------------------------------

| df chi2 P>chi2

-------------+----------------------------------

CMEP\_ |

timepoint@Tx |

PE | 2 27.62 0.0000

TranS-C | 2 101.13 0.0000

Joint | 4 128.70 0.0000

------------------------------------------------

. contrast Tx@timepoint

Contrasts of marginal linear predictions

Margins : asbalanced

------------------------------------------------

| df chi2 P>chi2

-------------+----------------------------------

CMEP\_ |

Tx@timepoint |

PRE | 1 0.34 0.5627

POST | 1 5.66 0.0174

FU6 | 1 4.33 0.0374

Joint | 3 13.60 0.0035

------------------------------------------------

. contrast Tx@timepoint, pveffects nowald

Contrasts of marginal linear predictions

Margins : asbalanced

----------------------------------------------------------------

| Contrast Std. Err. z P>|z|

------------------------+---------------------------------------

CMEP\_ |

Tx@timepoint |

(TranS-C vs base) PRE | -.3787526 .6542838 -0.58 0.563

(TranS-C vs base) POST | 1.618093 .6803454 2.38 0.017

(TranS-C vs base) FU6 | 1.456987 .7000971 2.08 0.037

----------------------------------------------------------------

. contrast timepoint@Tx, pveffects

Contrasts of marginal linear predictions

Margins : asbalanced

------------------------------------------------

| df chi2 P>chi2

-------------+----------------------------------

CMEP\_ |

timepoint@Tx |

PE | 2 27.62 0.0000

TranS-C | 2 101.13 0.0000

Joint | 4 128.70 0.0000

------------------------------------------------

----------------------------------------------------------------

| Contrast Std. Err. z P>|z|

------------------------+---------------------------------------

CMEP\_ |

timepoint@Tx |

(POST vs base) PE | 1.83559 .4611028 3.98 0.000

(POST vs base) TranS-C | 3.832435 .4606932 8.32 0.000

(FU6 vs base) PE | 2.341118 .4790332 4.89 0.000

(FU6 vs base) TranS-C | 4.176858 .4719105 8.85 0.000

----------------------------------------------------------------

. contrast Tx#timepoint, pveffects

Contrasts of marginal linear predictions

Margins : asbalanced

------------------------------------------------

| df chi2 P>chi2

-------------+----------------------------------

CMEP\_ |

Tx#timepoint | 2 11.58 0.0031

------------------------------------------------

--------------------------------------------------------------------------

| Contrast Std. Err. z P>|z|

----------------------------------+---------------------------------------

CMEP\_ |

Tx#timepoint |

(TranS-C vs base) (POST vs base) | 1.996845 .6517062 3.06 0.002

(TranS-C vs base) (FU6 vs base) | 1.83574 .6723391 2.73 0.006

--------------------------------------------------------------------------

. \*this provides the estimate of the size of the interaction effect, SE, and a test of th

> e significance of the interaction

. marginsplot

previous command was not margins

r(301);

. margins, over(time Tx)

Predictive margins Number of obs = 471

Expression : Linear prediction, fixed portion, predict()

over : timepoint Tx

-------------------------------------------------------------------------------

| Delta-method

| Margin Std. Err. z P>|z| [95% Conf. Interval]

--------------+----------------------------------------------------------------

timepoint#Tx |

PRE#PE | 21.53629 .4640397 46.41 0.000 20.62679 22.44579

PRE#TranS-C | 21.13636 .4597395 45.97 0.000 20.23529 22.03744

POST#PE | 23.38582 .4801063 48.71 0.000 22.44483 24.32681

POST#TranS-C | 24.99606 .4813183 51.93 0.000 24.05269 25.93943

FU6#PE | 23.8801 .4971476 48.03 0.000 22.90571 24.85449

FU6#TranS-C | 25.395 .4926908 51.54 0.000 24.42934 26.36066

-------------------------------------------------------------------------------

. margins Tx@timepoint, contrast(nowald pveffects)

Contrasts of predictive margins

Expression : Linear prediction, fixed portion, predict()

----------------------------------------------------------------

| Delta-method

| Contrast Std. Err. z P>|z|

------------------------+---------------------------------------

Tx@timepoint |

(TranS-C vs base) PRE | -.3787526 .6542838 -0.58 0.563

(TranS-C vs base) POST | 1.618093 .6803454 2.38 0.017

(TranS-C vs base) FU6 | 1.456987 .7000971 2.08 0.037

----------------------------------------------------------------

. contrast Tx@timepoint, pveffects

Contrasts of marginal linear predictions

Margins : asbalanced

------------------------------------------------

| df chi2 P>chi2

-------------+----------------------------------

CMEP\_ |

Tx@timepoint |

PRE | 1 0.34 0.5627

POST | 1 5.66 0.0174

FU6 | 1 4.33 0.0374

Joint | 3 13.60 0.0035

------------------------------------------------

----------------------------------------------------------------

| Contrast Std. Err. z P>|z|

------------------------+---------------------------------------

CMEP\_ |

Tx@timepoint |

(TranS-C vs base) PRE | -.3787526 .6542838 -0.58 0.563

(TranS-C vs base) POST | 1.618093 .6803454 2.38 0.017

(TranS-C vs base) FU6 | 1.456987 .7000971 2.08 0.037

----------------------------------------------------------------