

Derived Variables in PERL Study

Variable Name	Description	Source Form	Derivation	Range (continuous)/Response Options (categorical)
iGFRm	Estimated iGFR value	OC_FORM_006, OC_FORM_019	<pre>function igfr_calc(intcpt, slope, BSA); CL_1=3235* abs(slope)/exp(intcpt); Raw_CL = (0.991*CL_1)-0.0012*CL_1**2; Std_CL = Raw_CL*1.73/BSA; return(Std_CL); /* iGFR calculated */ endsub; BSA=0.024265*(BPHRA2HGHT **0.3964) *(BPHRA1WGHT **0.5378);</pre>	13.0 to 120.2 (See file "Data_Statistics_perl_v isit.xlsx")
egfr_cent_web	Estimated glomerular filtration rate, using "CKD-EPI web formula"	OC_FORM_002, central_lab_data	<pre>function egfr(age, sex\$, race\$, screat); /* age sex f/m or F/M race B(lack), everybody else screat in mg/dL */ Sexu = upcase(Sex); raceu = upcase(race); select (sexu); when ("F") alpha = -0.329; when ("M") alpha = -0.411; otherwise alpha = .; end; select (sexu); when ("F") kappa = 0.7; when ("M") kappa = 0.9; otherwise kappa = .; end;</pre>	5.9 to 129.6 (See file "Data_Statistics_perl_v isit.xlsx")

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			<pre> rat1 = screat/kappa; min1 = min(rat1,1); max1 = max(rat1,1); age1 = 0.993 ** age; select; when (rat1 = .) mx1 = .; when (rat1 = 1) mx1 = 1; when (rat1 > 1) mx1 = rat1 **(-1.209); when (rat1 < 1) mx1 = rat1 ** alpha; /* (-0.329) */; otherwise; end; cx = 141; /* Male NB */ select; when (sexu = "F") cx = cx + 3; otherwise; end; select; when (raceu = "B") cx = cx + 22; otherwise; end; egfr = cx * mx1 * age1; if screat = . then eGFR =.; if raceu = "" then eGFR =.; return (eGFR); endsub; </pre>	

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aer_base34_gm	AER Geometric mean of Visit 3 and Visit 4 (ug/min)	central_lab_data	if AER_RPT_AVG_v03 > 0 then laer3 = log(AER_RPT_AVG_v03); else laer3 = -1000; /* log (x) */ if AER_RPT_AVG_v04 > 0 then laer4 = log(AER_RPT_AVG_v04); else laer4 = -1000; /* log (x) */ aer_n3 = AER_repeat_item_count__v03; aer_n4 = AER_repeat_item_count__v04; lnum = sum(aer_n3 * laer3, aer_n4 * laer4); aer_n34 = sum(aer_n3, aer_n4); laer_base = lnum / aer_n34; aer_base34_gm = exp (laer_base); if aer_base34_gm ne . and aer_base34_gm <=0.25 then aer_base34_gm=0.25;	0.3 to 5788 (See file "Data_Statistics_perl_baseline.xlsx")
logAER_V1516	Log 10 AER (Geometric mean of Visit 15 and Visit 16) (ug/min)	central_lab_data	if AER_RPT_AVG_v15 > 0 then laer15 = log(AER_RPT_AVG_v15); else laer15 = -1000; /* log (x) */ if AER_RPT_AVG_v16 > 0 then laer16 = log(AER_RPT_AVG_v16); else laer16 = -1000; /* log (x) */ aer_n15 = AER_repeat_item_count__v15; aer_n16 = AER_repeat_item_count__v16; lnum = sum(aer_n15 * laer15, aer_n16 * laer16); aer_n1516 = sum(aer_n15, aer_n16); lAER_1516 = lnum / aer_n1516; lAER_V1516 = exp (lAER_1516); if lAER_V1516 ne . and lAER_V1516 <=0.25 then lAER_V1516=0.25; logAER_V1516=log10(lAER_V1516);	-0.6 to 3.8 (See file "Data_Statistics_secondary_outcome.xlsx")
logAER_V17	Log 10 AER at Visit 17 (ug/min)	central_lab_data	logAER_V17=log10(AER_RPT_AVG_v17);	-0.8 to 3.8 (See file "Data_Statistics_secondary_outcome.xlsx")

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His_egfr	Calculated Historical eGFR Slope based on the historical eGFR values	OC_Form_016 OC_Form_026	<pre>proc reg data =OC_Form_016; model ACRA6GFR= start; by id; run; proc reg data =OC_Form_026; model gfr_value = start; by id; run;</pre>	-77.5 to 43.9 (See file "Data_Statistics_perl_baseline.xlsx")