

Physiological Visualizatiions

```
##
## Call:
## lm(formula = BMI ~ age * Genotype * sex, data = geno_combined)
##
## Residuals:
```

	Min	1Q	Median	3Q	Max
	-138.61	-13.96	-4.34	0.64	434.90

```
##
## Coefficients:
```

	Estimate	Std. Error	t value	Pr(> t)
(Intercept)	29.23769	109.76479	0.266	0.7915
age	0.01938	2.10937	0.009	0.9927
GenotypeAPOE4	296.30727	141.08549	2.100	0.0428 *
sexMale	29.55222	164.94239	0.179	0.8588
age:GenotypeAPOE4	-5.67847	2.82796	-2.008	0.0522 .
age:sexMale	-0.40937	3.01544	-0.136	0.8928
GenotypeAPOE4:sexMale	-326.13845	230.94211	-1.412	0.1665
age:GenotypeAPOE4:sexMale	5.98621	4.36305	1.372	0.1785

```
## ---
## Signif. codes:  0 '***' 0.001 '**' 0.01 '*' 0.05 '.' 0.1 ' ' 1
##
## Residual standard error: 86.68 on 36 degrees of freedom
## (1 observation deleted due to missingness)
## Multiple R-squared:  0.2326, Adjusted R-squared:  0.08338
## F-statistic: 1.559 on 7 and 36 DF,  p-value: 0.1794

##
## Call:
## lm(formula = BMI ~ age * Genotype, data = combo_f)
##
## Residuals:
```

	Min	1Q	Median	3Q	Max
	-138.61	-31.82	-4.31	8.27	434.90

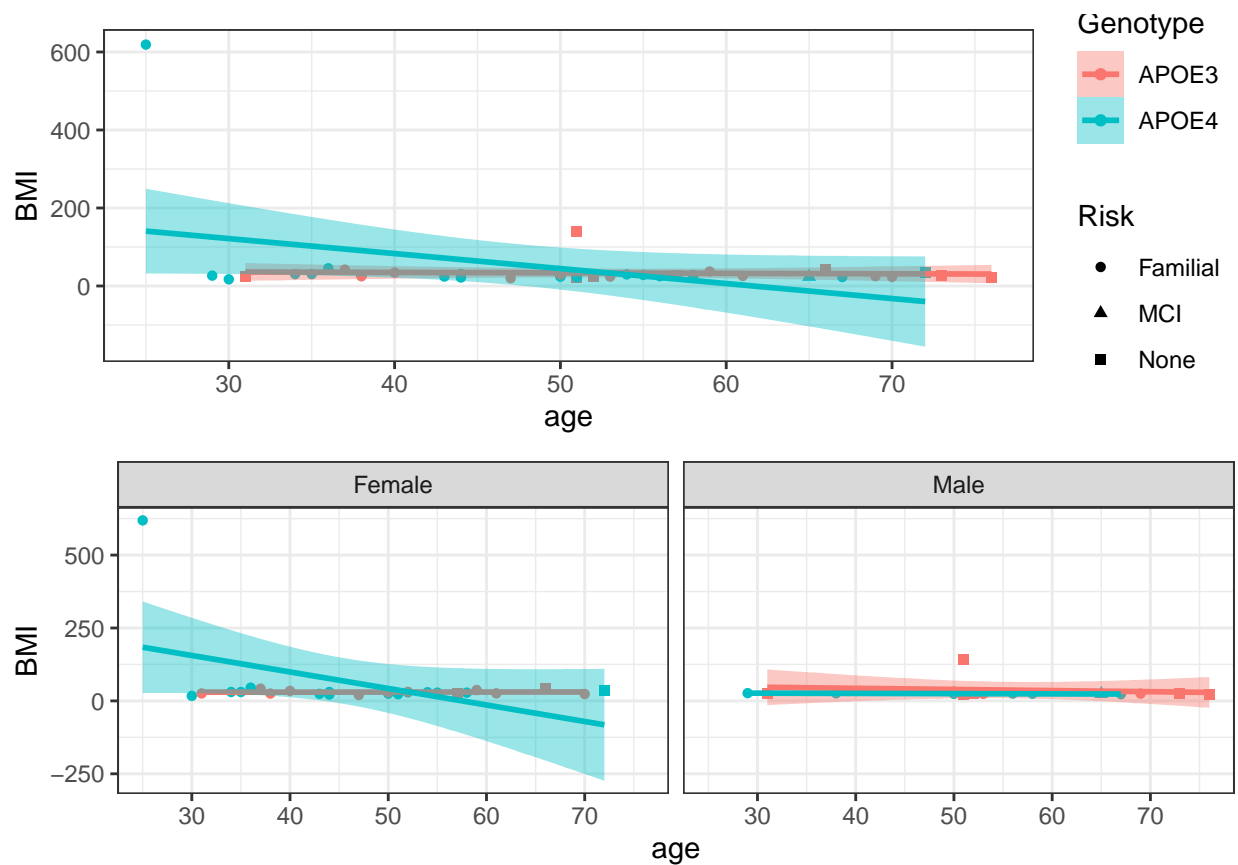
```
##
## Coefficients:
```

	Estimate	Std. Error	t value	Pr(> t)
(Intercept)	29.23769	134.30964	0.218	0.8296
age	0.01938	2.58105	0.008	0.9941
GenotypeAPOE4	296.30727	172.63405	1.716	0.0995 .
age:GenotypeAPOE4	-5.67847	3.46033	-1.641	0.1144

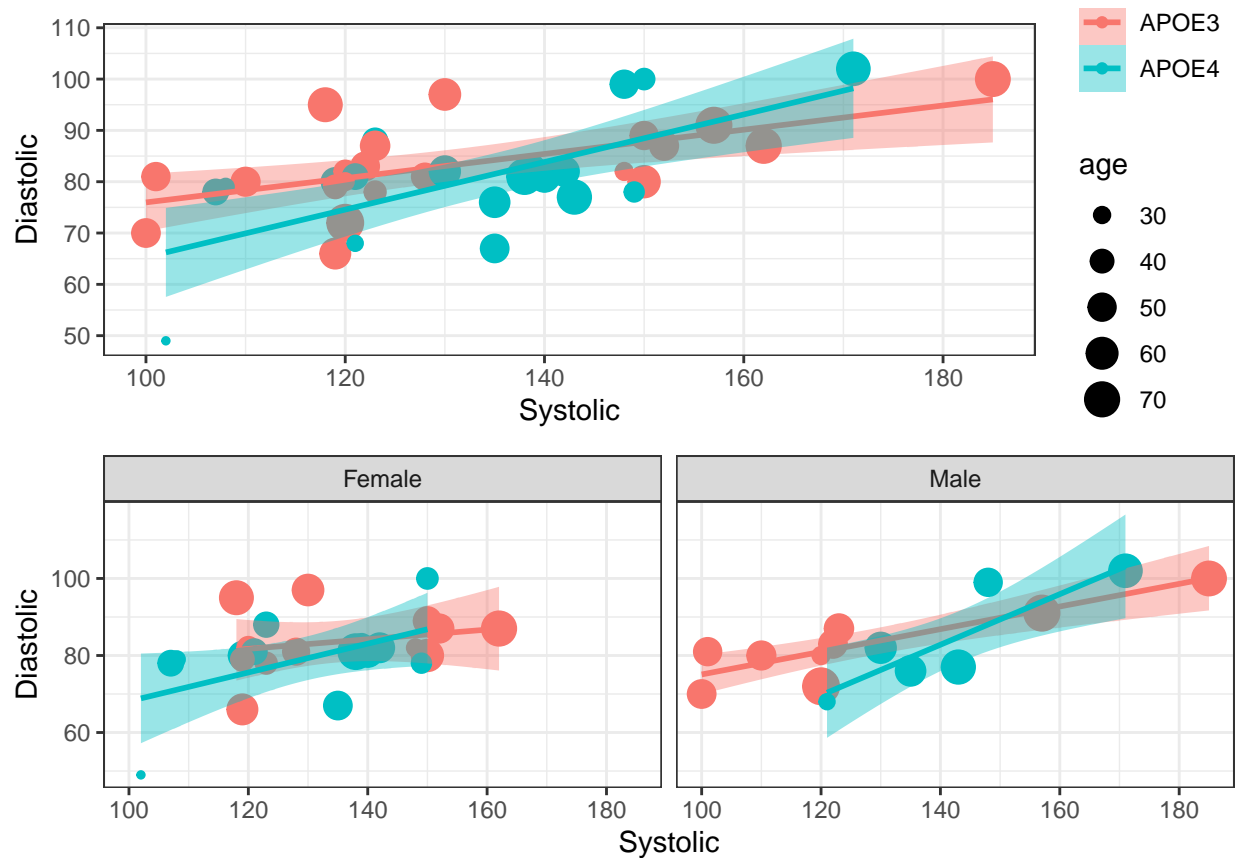
```
## ---
## Signif. codes:  0 '***' 0.001 '**' 0.01 '*' 0.05 '.' 0.1 ' ' 1
##
## Residual standard error: 106.1 on 23 degrees of freedom
## Multiple R-squared:  0.23, Adjusted R-squared:  0.1295
## F-statistic: 2.29 on 3 and 23 DF,  p-value: 0.1052
```

```
##
## Call:
## lm(formula = BMI ~ age * Genotype, data = combo_m)
##
## Residuals:
##      Min       1Q   Median       3Q      Max
## -22.320 -10.271  -4.369   0.015 101.720
##
## Coefficients:
##              Estimate Std. Error t value Pr(>|t|)
## (Intercept)    58.7899    42.6998   1.377   0.192
## age           -0.3900     0.7474  -0.522   0.611
## GenotypeAPOE4  -29.8312    63.4121  -0.470   0.646
## age:GenotypeAPOE4  0.3077     1.1523   0.267   0.794
##
## Residual standard error: 30.06 on 13 degrees of freedom
## (1 observation deleted due to missingness)
## Multiple R-squared:  0.07001,    Adjusted R-squared:  -0.1446
## F-statistic: 0.3262 on 3 and 13 DF,  p-value: 0.8064
```

```
## 'geom_smooth()' using formula 'y ~ x'
```



```
## 'geom_smooth()' using formula 'y ~ x'
```



```
##
## Call:
## lm(formula = Pulse ~ age * Genotype * sex, data = geno_combined)
##
## Residuals:
##      Min       1Q   Median       3Q      Max
## -20.072  -5.207  -1.800    6.474   25.672
##
## Coefficients:
##              Estimate Std. Error t value Pr(>|t|)
## (Intercept)    69.40345    13.79651   5.031 1.82e-05 ***
## age              0.01949     0.27278   0.071   0.943
## GenotypeAPOE4   -18.10294    17.39371  -1.041   0.306
## sexMale         16.49001    20.33654   0.811   0.423
## age:GenotypeAPOE4  0.35589     0.35564   1.001   0.324
## age:sexMale     -0.36344     0.37588  -0.967   0.341
## GenotypeAPOE4:sexMale 24.24073    28.01658   0.865   0.393
## age:GenotypeAPOE4:sexMale -0.66818     0.53298  -1.254   0.219
## ---
## Signif. codes:  0 '***' 0.001 '**' 0.01 '*' 0.05 '.' 0.1 ' ' 1
##
## Residual standard error: 10.32 on 32 degrees of freedom
## (5 observations deleted due to missingness)
## Multiple R-squared:  0.3307, Adjusted R-squared:  0.1843
## F-statistic: 2.259 on 7 and 32 DF,  p-value: 0.05486
```

```
##
## Call:
## lm(formula = Pulse ~ age * Genotype, data = combo_f)
##
## Residuals:
```

	Min	1Q	Median	3Q	Max
	-20.0723	-5.2072	-0.7913	6.4745	25.6724

```
##
## Coefficients:
```

	Estimate	Std. Error	t value	Pr(> t)
(Intercept)	69.40345	13.61116	5.099	5.48e-05 ***
age	0.01949	0.26912	0.072	0.943
GenotypeAPOE4	-18.10294	17.16003	-1.055	0.304
age:GenotypeAPOE4	0.35589	0.35086	1.014	0.323

```
## ---
## Signif. codes:  0 '***' 0.001 '**' 0.01 '*' 0.05 '.' 0.1 ' ' 1
##
## Residual standard error: 10.18 on 20 degrees of freedom
## (3 observations deleted due to missingness)
## Multiple R-squared:  0.1337, Adjusted R-squared:  0.003728
## F-statistic: 1.029 on 3 and 20 DF,  p-value: 0.4011

##
## Call:
## lm(formula = Pulse ~ age * Genotype, data = combo_m)
##
## Residuals:
```

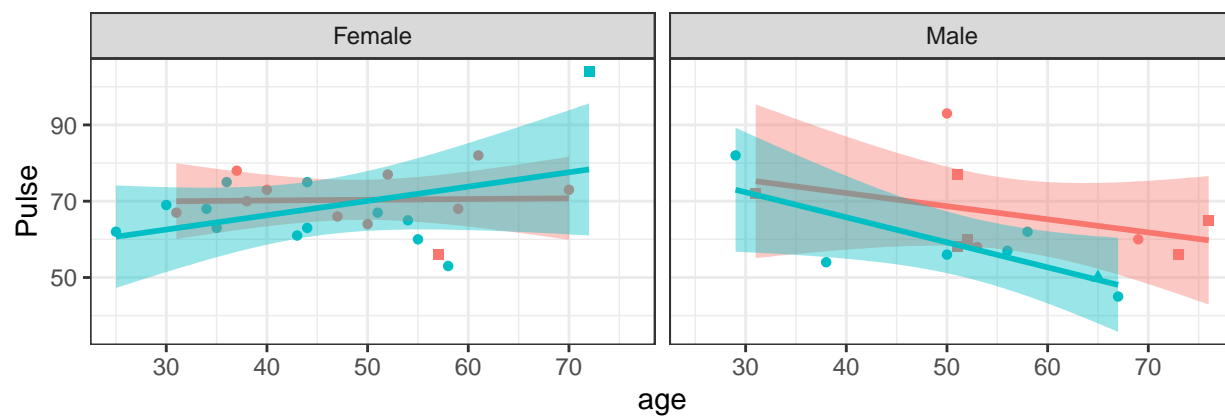
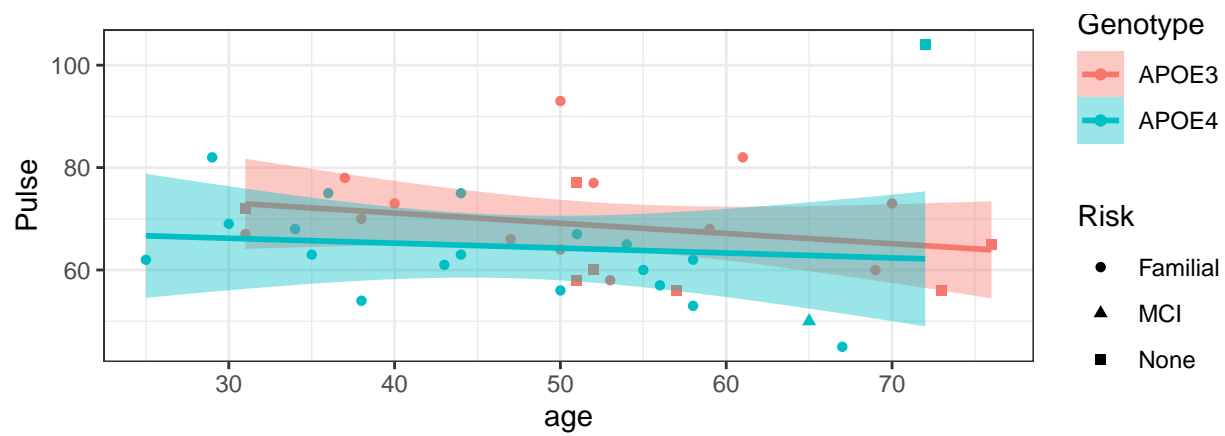
	Min	1Q	Median	3Q	Max
	-13.094	-5.590	-2.611	5.943	24.304

```
##
## Coefficients:
```

	Estimate	Std. Error	t value	Pr(> t)
(Intercept)	85.8935	15.2696	5.625	0.000112 ***
age	-0.3440	0.2643	-1.301	0.217547
GenotypeAPOE4	6.1378	22.4465	0.273	0.789164
age:GenotypeAPOE4	-0.3123	0.4057	-0.770	0.456326

```
## ---
## Signif. codes:  0 '***' 0.001 '**' 0.01 '*' 0.05 '.' 0.1 ' ' 1
##
## Residual standard error: 10.55 on 12 degrees of freedom
## (2 observations deleted due to missingness)
## Multiple R-squared:  0.4239, Adjusted R-squared:  0.2798
## F-statistic: 2.943 on 3 and 12 DF,  p-value: 0.07613

## 'geom_smooth()' using formula 'y ~ x'
```



Cohort physiological distribution

Age by genotype

