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[1] "T12WaistlineOverHeight_RFvStepwisevLM"
```

```
[1] "RandomForests"
```

```
Random Forest
```

```
89 samples
```

```
48 predictors
```

```
Pre-processing: centered, scaled
```

```
Resampling: Cross-Validated (10 fold, repeated 10 times)
```

```
Summary of sample sizes: 79, 80, 80, 80, 81, 80, ...
```

```
Resampling results across tuning parameters:
```

mtry	RMSE	Rsquared	RMSE SD	Rsquared SD
2	0.04619480	0.3239563	0.01397029	0.2144537
24	0.04106307	0.4366367	0.01246857	0.2462740
46	0.04241645	0.4209031	0.01191231	0.2421224

```
RMSE was used to select the optimal model using the smallest value.
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```
The final value used for the model was mtry = 24.
```

```
[1] "LinearModel"
```

```
Linear Regression
```

```
89 samples
```

```
48 predictors
```

```
Pre-processing: centered, scaled
```

```
Resampling: Cross-Validated (10 fold, repeated 10 times)
```

```
Summary of sample sizes: 81, 81, 81, 80, 79, 81, ...
```

```
Resampling results
```

RMSE	Rsquared	RMSE SD	Rsquared SD
0.06245349	0.217511	0.01653849	0.211529

```
[1] "Stepwise"
```

```
Call:
```

```
lm(formula = T12_WaistAvg/T12_Height ~ Intervention + T3HKQ5 +  
  T3HKQ7 + T3HKQ9 + T3HKQ12 + T3HKQ18 + T3HKQ21 + T3HKQ22 +  
  T3HKQ26 + T3HKQ29 + T3HKQ30 + T3HKQ34 + T3HKQ35 + T3HKQ37 +  
  T3HKQ38 + T3HKQ41 + T3HKQ43 + as.numeric(T4_WaistAvg/T4_Height),  
  data = X[complete.cases(X[, c(2, 4:48, 92, 94, 96)]), c(2,  
    4:48, 92, 94, 96)])
```

```
Residuals:
```

Min	1Q	Median	3Q	Max
-0.055952	-0.022989	-0.005136	0.023956	0.065150

```
Coefficients:
```

	Estimate	Std. Error	t value	Pr(> t)
(Intercept)	0.096956	0.067677	1.433	0.15642
InterventionNot Enrolled/Offered	0.023456	0.008621	2.721	0.00821 **
T3HKQ5	-0.007234	0.003370	-2.147	0.03529 *
T3HKQ7	-0.009486	0.006017	-1.577	0.11940
T3HKQ9	0.013603	0.005958	2.283	0.02546 *
T3HKQ12	0.009268	0.004102	2.259	0.02698 *
T3HKQ18	0.016589	0.005845	2.838	0.00593 **
T3HKQ21	-0.014040	0.007864	-1.785	0.07854 .
T3HKQ22	-0.005565	0.003319	-1.677	0.09808 .
T3HKQ26	0.007741	0.005327	1.453	0.15063
T3HKQ29	-0.009927	0.005416	-1.833	0.07109 .
T3HKQ30	-0.016762	0.007380	-2.271	0.02620 *
T3HKQ34	0.012413	0.007100	1.748	0.08479 .
T3HKQ35	0.015597	0.011412	1.367	0.17611
T3HKQ37	-0.011984	0.004886	-2.453	0.01667 *
T3HKQ38	-0.016960	0.008190	-2.071	0.04207 *
T3HKQ41	0.011734	0.004225	2.777	0.00703 **
T3HKQ43	0.007725	0.005119	1.509	0.13575

```
as.numeric(T4_WaistAvg/T4_Height)  0.735240  0.078915  9.317 6.96e-14 ***
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Signif. codes:  0 '***' 0.001 '**' 0.01 '*' 0.05 '.' 0.1 ' ' 1

Residual standard error: 0.03358 on 70 degrees of freedom
Multiple R-squared:  0.6714,    Adjusted R-squared:  0.5869 
F-statistic: 7.946 on 18 and 70 DF,  p-value: 8.114e-11
```