

## Model

| Model |                  | Correlations |       | Collinearity Statistics |       |
|-------|------------------|--------------|-------|-------------------------|-------|
|       |                  | Partial      | Part  | Tolerance               | VIF   |
| 1     | (Constant)       |              |       |                         |       |
|       | wx_dark          | -.001        | -.001 | .989                    | 1.012 |
|       | wx_foggy         | .013         | .013  | .998                    | 1.002 |
|       | wx_landslide     | -.003        | -.003 | 1.000                   | 1.000 |
|       | wx_natdis        | .001         | .001  | 1.000                   | 1.000 |
|       | wx_other         | -.009        | -.009 | .996                    | 1.004 |
|       | wx_rainy         | -.030        | -.030 | .955                    | 1.047 |
|       | veh_motorcycle   | .126         | .125  | .954                    | 1.048 |
|       | rd_bridge        | .005         | .005  | .996                    | 1.004 |
|       | rd_conn_private  | .022         | .022  | .720                    | 1.389 |
|       | rd_conn_public   | .036         | .036  | .545                    | 1.835 |
|       | rd_conn_school   | .021         | .021  | .907                    | 1.102 |
|       | rd_fourway       | .048         | .047  | .773                    | 1.294 |
|       | rd_grade_sep     | .002         | .002  | .867                    | 1.153 |
|       | rd_lane_change   | -.002        | -.002 | .994                    | 1.006 |
|       | rd_merge         | .005         | .004  | .984                    | 1.016 |
|       | rd_motorcycle_In | .002         | .002  | .999                    | 1.001 |
|       | rd_other         | .031         | .031  | .148                    | 6.768 |
|       | rd_ped_path      | -.002        | -.002 | .999                    | 1.001 |
|       | rd_roundabout    | .004         | .004  | .991                    | 1.010 |
|       | rd_sharp_curve   | .010         | .009  | .944                    | 1.059 |
|       | rd_t             | .032         | .031  | .738                    | 1.354 |
|       | rd_urn           | .001         | .001  | .992                    | 1.008 |



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|                |         |
|----------------|---------|
| Page 1         | 1 match |
| POUT(.10)      |         |
| TOLERANCE(.10) |         |
| Page 2         | 1 match |
| POUT(.10)      |         |
| TOLERANCE(.10) |         |
| Page...        | 1 match |
| Tolerance VIF  |         |

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| Coefficients <sup>a</sup> |                  |       |                                 |             |              |
|---------------------------|------------------|-------|---------------------------------|-------------|--------------|
| Model                     |                  | Sig.  | 95.0% Confidence Interval for B |             | Correlations |
|                           |                  |       | Lower Bound                     | Upper Bound | Zero-order   |
| 1                         | (Constant)       | <.001 | .433                            | .455        |              |
|                           | wx_dark          | .765  | -.079                           | .058        | .008         |
|                           | wx_foggy         | <.001 | .054                            | .166        | .017         |
|                           | wx_landslide     | .382  | -1.886                          | .723        | -.003        |
|                           | wx_natdis        | .813  | -.167                           | .213        | .001         |
|                           | wx_other         | .010  | -.238                           | -.033       | -.005        |
|                           | wx_rainy         | <.001 | -.075                           | -.047       | -.053        |
|                           | veh_motorcycle   | <.001 | .213                            | .237        | .147         |
|                           | rd_bridge        | .128  | -.130                           | 1.039       | .003         |
|                           | rd_conn_private  | <.001 | .158                            | .301        | .016         |
|                           | rd_conn_public   | <.001 | .240                            | .352        | .036         |
|                           | rd_conn_school   | <.001 | .263                            | .512        | .017         |
|                           | rd_fourway       | <.001 | .480                            | .639        | .044         |
|                           | rd_grade_sep     | .480  | -.066                           | .141        | -.008        |
|                           | rd_lane_change   | .539  | -.650                           | .340        | -.003        |
|                           | rd_merge         | .194  | -.102                           | .502        | .000         |
|                           | rd_motorcycle_in | .597  | -.953                           | 1.657       | .002         |
|                           | rd_other         | <.001 | .146                            | .227        | .015         |
|                           | rd_ped_path      | .595  | -1.660                          | .951        | -.003        |
|                           | rd_roundabout    | .214  | -.145                           | .646        | .002         |
|                           | rd_sharp_curve   | .006  | .021                            | .130        | .001         |
|                           | rd_t             | <.001 | .273                            | .423        | .028         |
|                           | rd_urn           | .693  | -.331                           | .498        | -.001        |
|                           | rd_wide_curve    | <.001 | .036                            | .065        | -.008        |



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### wx\_dark

|       |      | Frequency | Percent | Valid Percent | Cumulative Percent |
|-------|------|-----------|---------|---------------|--------------------|
| Valid | .00  | 81367     | 99.5    | 99.5          | 99.5               |
|       | 1.00 | 368       | .5      | .5            | 100.0              |
| Total |      | 81735     | 100.0   | 100.0         |                    |

### wx\_foggy

|       |      | Frequency | Percent | Valid Percent | Cumulative Percent |
|-------|------|-----------|---------|---------------|--------------------|
| Valid | .00  | 81191     | 99.3    | 99.3          | 99.3               |
|       | 1.00 | 544       | .7      | .7            | 100.0              |
| Total |      | 81735     | 100.0   | 100.0         |                    |

### wx\_landslide

|       |      | Frequency | Percent | Valid Percent | Cumulative Percent |
|-------|------|-----------|---------|---------------|--------------------|
| Valid | .00  | 81734     | 100.0   | 100.0         | 100.0              |
|       | 1.00 | 1         | .0      | .0            | 100.0              |
| Total |      | 81735     | 100.0   | 100.0         |                    |

### wx\_natdis

|       |      | Frequency | Percent | Valid Percent | Cumulative Percent |
|-------|------|-----------|---------|---------------|--------------------|
| Valid | .00  | 81688     | 99.9    | 99.9          | 99.9               |
|       | 1.00 | 47        | .1      | .1            | 100.0              |
| Total |      | 81735     | 100.0   | 100.0         |                    |

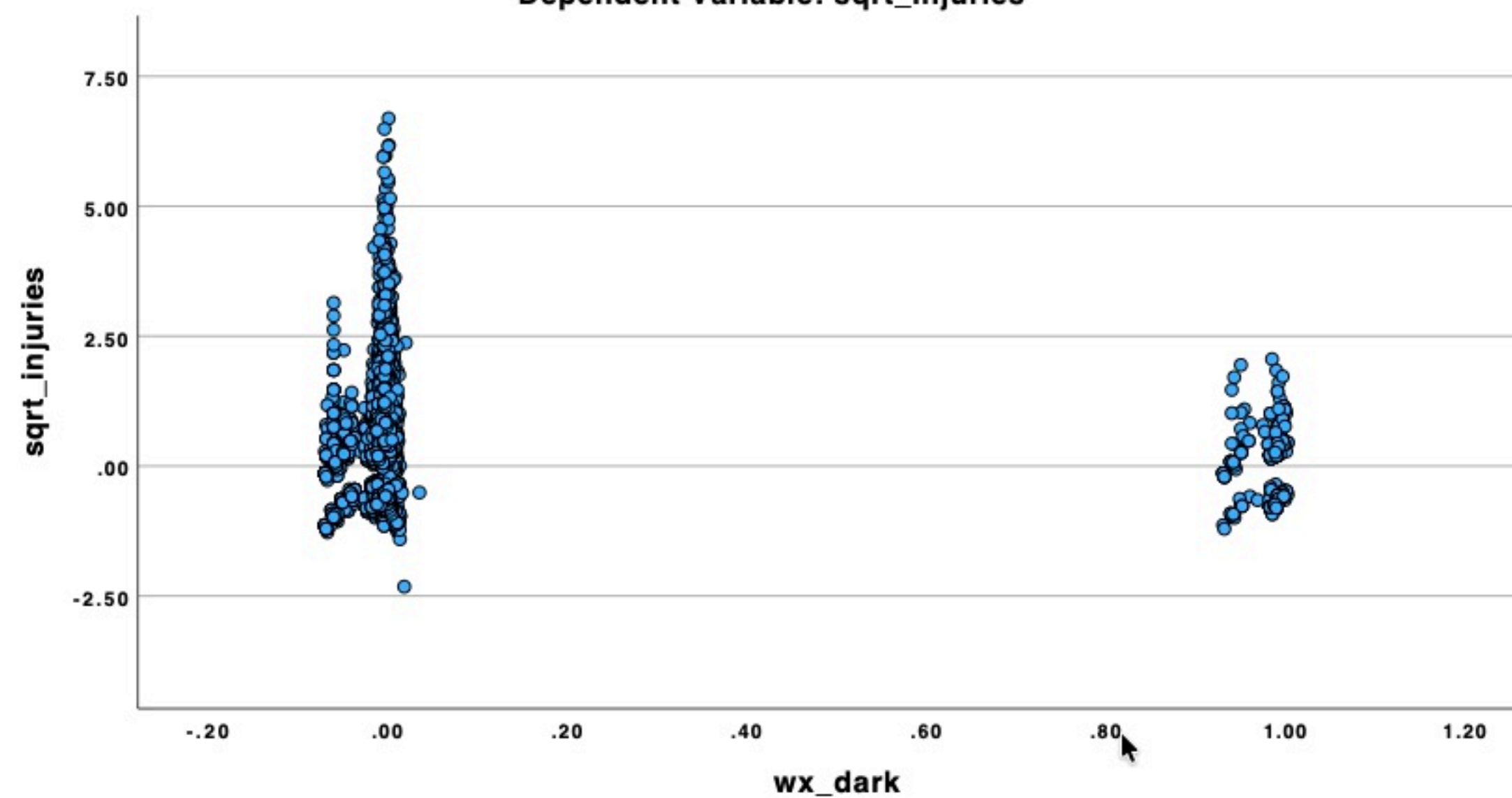
### wx\_other

|       |      | Frequency | Percent | Valid Percent | Cumulative Percent |
|-------|------|-----------|---------|---------------|--------------------|
| Valid | .00  | 81573     | 99.8    | 99.8          | 99.8               |
|       | 1.00 | 162       | .2      | .2            | 100.0              |
| Total |      | 81735     | 100.0   | 100.0         |                    |

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Partial Regression Plot  
Dependent Variable: sqrt\_injuries



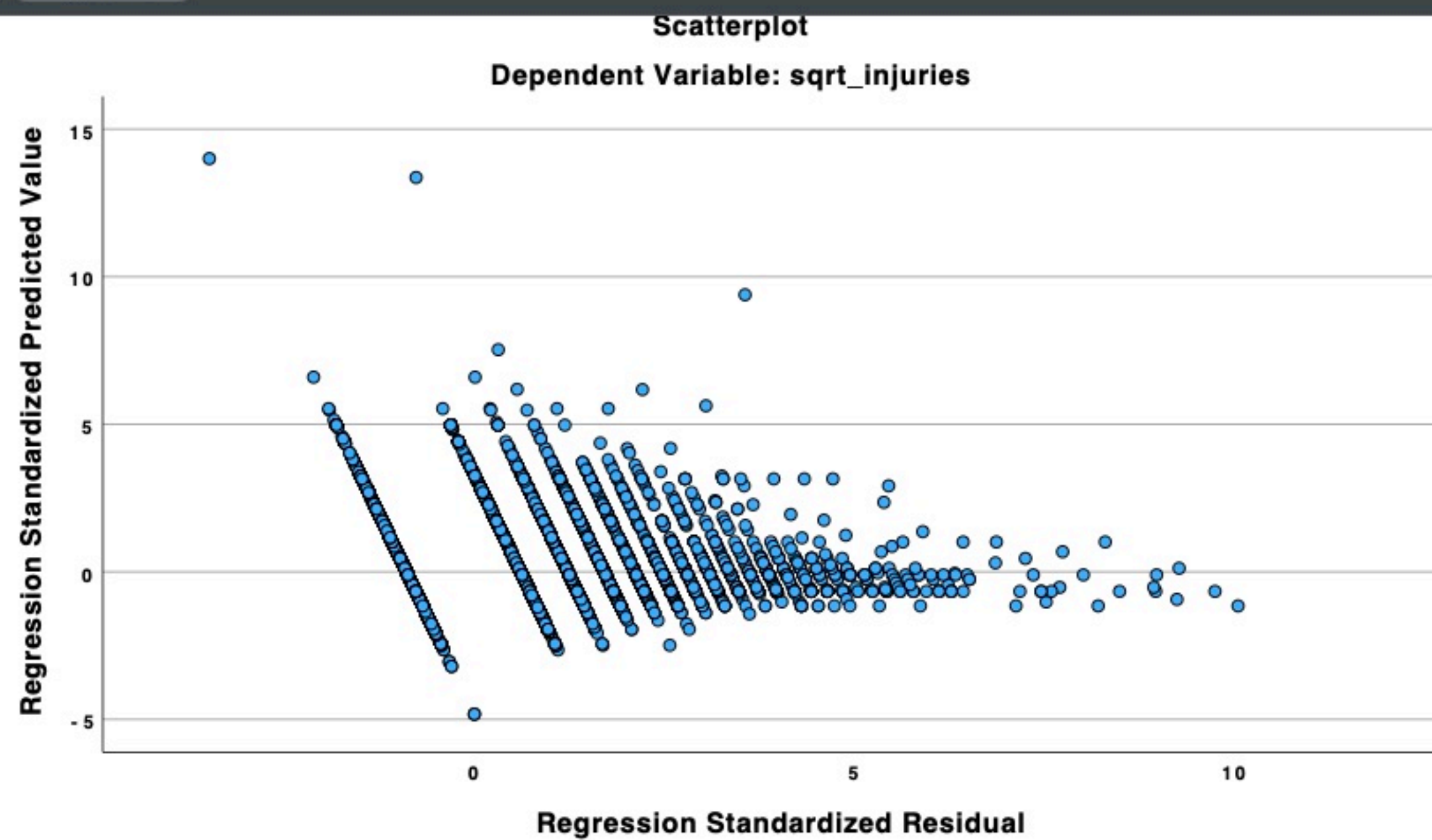
Partial Regression Plot  
Dependent Variable: sqrt\_injuries





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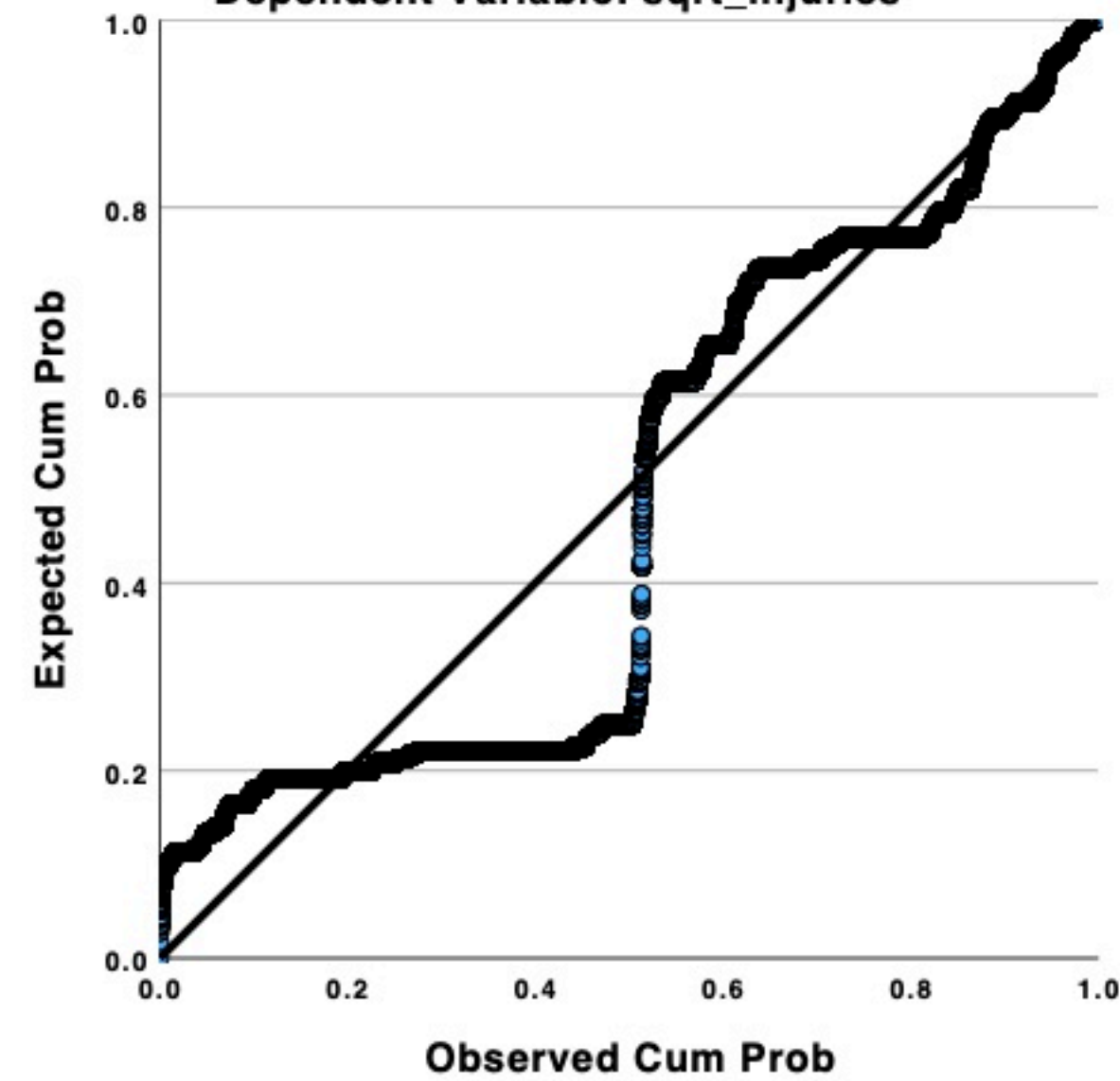
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Normal P-P Plot of Regression Standardized Residual  
Dependent Variable: sqrt\_injuries



Scatterplot  
Dependent Variable: sqrt\_injuries





### Residuals Statistics<sup>a</sup>

|                      | Minimum  | Maximum | Mean   | Std. Deviation | N     |
|----------------------|----------|---------|--------|----------------|-------|
| Predicted Value      | .0000    | 2.3210  | .5947  | .12330         | 81735 |
| Residual             | -2.32097 | 6.68925 | .00000 | .66554         | 81735 |
| Std. Predicted Value | -4.823   | 14.000  | .000   | 1.000          | 81735 |
| Std. Residual        | -3.487   | 10.049  | .000   | 1.000          | 81735 |

a. Dependent Variable: sqrt\_injuries

### Charts

#### Histogram

Dependent Variable: sqrt\_injuries

