

```

LOGISTIC REGRESSION VARIABLES Activity
/METHOD=ENTER visit_da_crp visit_da_sga right_shoulder_swollen left_shoulder_swollen
right_elbow_swollen left_elbow_swollen right_wrist_swollen left_wrist_swollen
right_thumb_mcp_swollen left_thumb_mcp_swollen right_thumb_pip_swollen left_thumb
_pip_swollen
right_pinky_little_finger_mcp_swollen right_ring_finger_mcp_swollen right_middle_
finger_mcp_swollen
right_index_finger_mcp_swollen left_index_finger_mcp_swollen left_middle_finger_m
cp_swollen
left_ring_finger_mcp_swollen left_pinky_little_finger_mcp_swollen
right_pinky_little_finger_pip_swollen right_ring_finger_pip_swollen right_middle_
finger_pip_swollen
right_index_finger_pip_swollen left_index_finger_pip_swollen left_middle_finger_p
ip_swollen
left_ring_finger_pip_swollen left_pinky_little_finger_pip_swollen right_knee_swol
len
left_knee_swollen right_shoulder_tender left_shoulder_tender right_elbow_tender l
eft_elbow_tender
right_wrist_tender left_wrist_tender right_thumb_mcp_tender left_thumb_mcp_tender
right_thumb_pip_tender left_thumb_pip_tender right_pinky_little_finger_mcp_tender
right_ring_finger_mcp_tender right_middle_finger_mcp_tender right_index_finger_mc
p_tender
left_index_finger_mcp_tender left_middle_finger_mcp_tender left_ring_finger_mcp_t
ender
left_pinky_little_finger_mcp_tender right_pinky_little_finger_pip_tender
right_ring_finger_pip_tender right_middle_finger_pip_tender right_index_finger_pi
p_tender
left_index_finger_pip_tender left_middle_finger_pip_tender left_ring_finger_pip_t
ender
left_pinky_little_finger_pip_tender right_knee_tender left_knee_tender
/CRITERIA=PIN(.05) POUT(.10) ITERATE(20) CUT(.5).

```

Logistic Regression

Notes

Output Created		29-AUG-2025 19:53:36
Comments		
Input	Data	/home/joern/. Datenplatte/Joerns Dateien/Aktuell/Rheuma MetabolomicsFFM/08Ana lyseProgramme/R/OLD/P SA_das28_all_items.csv
	Active Dataset	DataSet1
	Filter	<none>
	Weight	<none>
	Split File	<none>
	N of Rows in Working Data File	80
Missing Value Handling	Definition of Missing	User-defined missing values are treated as missing

Notes

Syntax

LOGISTIC REGRESSION
 VARIABLES Activity
 /METHOD=ENTER
 visit_da_crp visit_da_sga
 right_shoulder_swollen
 left_shoulder_swollen
 right_elbow_swollen
 left_elbow_swollen
 right_wrist_swollen
 left_wrist_swollen

 right_thumb_mcp_swollen
 left_thumb_mcp_swollen
 right_thumb_pip_swollen
 left_thumb_pip_swollen

 right_pinky_little_finger_mcp_swollen
 right_ring_finger_mcp_swollen
 right_middle_finger_mcp_swollen

 right_index_finger_mcp_swollen
 left_index_finger_mcp_swollen
 left_middle_finger_mcp_swollen

 left_ring_finger_mcp_swollen
 left_pinky_little_finger_mcp_swollen

 right_pinky_little_finger_pip_swollen
 right_ring_finger_pip_swollen
 right_middle_finger_pip_swollen

 right_index_finger_pip_swollen
 left_index_finger_pip_swollen
 left_middle_finger_pip_swollen

 left_ring_finger_pip_swollen
 left_pinky_little_finger_pip_swollen
 right_knee_swollen
 left_knee_swollen
 right_shoulder_tender
 left_shoulder_tender
 right_elbow_tender
 left_elbow_tender
 right_wrist_tender
 left_wrist_tender
 right_thumb_mcp_tender
 left_thumb_mcp_tender

 right_thumb_pip_tender

Notes

Resources	Processor Time	00:00:00.01
	Elapsed Time	00:00:00.00

Warnings

Due to redundancies, degrees of freedom have been reduced for one or more variables.

Case Processing Summary

Unweighted Cases ^a		N	Percent
Selected Cases	Included in Analysis	80	100.0
	Missing Cases	0	.0
	Total	80	100.0
Unselected Cases		0	.0
Total		80	100.0

a. If weight is in effect, see classification table for the total number of cases.

Dependent Variable Encoding

Original Value	Internal Value
0	0
low	1

Block 0: Beginning Block

Classification Table^{a,b}

		Predicted		Percentage Correct
		Activity	low	
Step 0	Observed	0	low	
	Activity			
	0	59	0	100.0
	low	21	0	.0
Overall Percentage				73.8

a. Constant is included in the model.

b. The cut value is .500

Variables in the Equation

		B	S.E.	Wald	df	Sig.	Exp(B)
Step 0	Constant	-1.033	.254	16.527	1	.000	.356

Variables not in the Equation^a

			Score	df	Sig.
Step 0	Variables	visit_da_crp	1.780	1	.182
		visit_da_sga	22.822	1	.000
		right_thumb_mcp_swollen	.730	1	.393
		right_middle_finger_mcp_swollen	.360	1	.548
		right_index_finger_mcp_swollen	2.845	1	.092
		right_middle_finger_pip_swollen	.360	1	.548
		right_index_finger_pip_swollen	1.227	1	.268
		right_shoulder_tender	2.845	1	.092
		right_elbow_tender	.360	1	.548
		left_elbow_tender	.360	1	.548
		right_wrist_tender	2.630	1	.105
		left_wrist_tender	8.757	1	.003
		right_thumb_mcp_tender	5.473	1	.019
		left_thumb_mcp_tender	2.630	1	.105
		right_thumb_pip_tender	2.845	1	.092
		left_thumb_pip_tender	2.845	1	.092
		right_pinky_little_finger_mcp_tender	2.845	1	.092
		right_middle_finger_mcp_tender	2.845	1	.092
		right_index_finger_mcp_tender	2.845	1	.092
		left_index_finger_mcp_tender	5.763	1	.016
		left_middle_finger_mcp_tender	2.845	1	.092
		left_ring_finger_mcp_tender	2.845	1	.092
		right_pinky_little_finger_pip_tender	5.763	1	.016

Variables not in the Equation^a

		Score	df	Sig.
	right_ring_finger_pip_tender	11.830	1	.001
	right_middle_finger_pip_tender	14.984	1	.000
	right_index_finger_pip_tender	28.491	1	.000
	left_index_finger_pip_tender	3.138	1	.076
	left_middle_finger_pip_tender	2.845	1	.092
	left_ring_finger_pip_tender	8.757	1	.003
	left_pinky_little_finger_pip_tender	2.845	1	.092
	right_knee_tender	2.845	1	.092

a. Residual Chi-Squares are not computed because of redundancies.

Block 1: Method = Enter

Omnibus Tests of Model Coefficients

		Chi-square	df	Sig.
Step 1	Step	92.105	22	.000
	Block	92.105	22	.000
	Model	92.105	22	.000

Model Summary

Step	-2 Log likelihood	Cox & Snell R Square	Nagelkerke R Square
1	.000 ^a	.684	1.000

a. Estimation terminated at iteration number 20 because maximum iterations has been reached. Final solution cannot be found.

Classification Table^a

		Predicted		
		Activity		Percentage
Observed		0	low	Correct
Step 1	Activity 0	59	0	100.0
	low	0	21	100.0
	Overall Percentage			100.0

a. The cut value is .500

Variables in the Equation

		B	S.E.	Wald	df	Sig.
Step 1 ^a	visit_da_crp	.769	4982.804	.000	1	1.000
	visit_da_sga	2.102	192.672	.000	1	.991
	right_thumb_mcp_swollen	49.909	55679.981	.000	1	.999
	right_middle_finger_mcp_swollen	47.429	66587.949	.000	1	.999
	right_index_finger_mcp_swollen	48.985	41730.449	.000	1	.999
	right_index_finger_pip_swollen	9.941	32455.661	.000	1	1.000
	right_shoulder_tender	88.173	41482.082	.000	1	.998
	right_elbow_tender	132.140	42539.773	.000	1	.998
	right_wrist_tender	56.765	86808.184	.000	1	.999
	left_wrist_tender	27.498	59759.350	.000	1	1.000
	right_thumb_mcp_tender	65.213	78437.639	.000	1	.999
	left_thumb_mcp_tender	26.408	9063485694	.000	1	1.000
	right_thumb_pip_tender	-16.068	9063485696	.000	1	1.000
	right_pinky_little_finger_mcp_tender	.792	9063485694	.000	1	1.000
	right_middle_finger_mcp_tender	32.986	57575.203	.000	1	1.000
	right_pinky_little_finger_pip_tender	-53.551	97795.888	.000	1	1.000
	right_ring_finger_pip_tender	47.908	40459.896	.000	1	.999
	right_middle_finger_pip_tender	66.227	16452.778	.000	1	.997
	right_index_finger_pip_tender	77.226	18811.756	.000	1	.997

Variables in the Equation

		Exp(B)
Step 1 ^a	visit_da_crp	2.157
	visit_da_sga	8.180
	right_thumb_mcp_swollen	4.735E+21
	right_middle_finger_mcp_swollen	3.964E+20
	right_index_finger_mcp_swollen	1.879E+21
	right_index_finger_pip_swollen	20774.667
	right_shoulder_tender	1.964E+38
	right_elbow_tender	2.443E+57
	right_wrist_tender	4.494E+24
	left_wrist_tender	8.751E+11
	right_thumb_mcp_tender	2.097E+28
	left_thumb_mcp_tender	2.942E+11
	right_thumb_pip_tender	.000
	right_pinky_little_finger_mcp_tender	2.207
	right_middle_finger_mcp_tender	2.116E+14
	right_pinky_little_finger_pip_tender	.000
	right_ring_finger_pip_tender	6.403E+20
	right_middle_finger_pip_tender	5.780E+28
	right_index_finger_pip_tender	3.458E+33

Variables in the Equation

	B	S.E.	Wald	df	Sig.
left_index_finger_pip_tender	44.208	9063485694	.000	1	1.000
left_ring_finger_pip_tender	-137.597	103294.822	.000	1	.999
right_knee_tender	-34.415	76336.891	.000	1	1.000
Constant	-154.727	18860.124	.000	1	.993

Variables in the Equation

	Exp(B)
left_index_finger_pip_tender	1.582E+19
left_ring_finger_pip_tender	.000
right_knee_tender	.000
Constant	.000

- a. Variable(s) entered on step 1: visit_da_crp, visit_da_sga, right_thumb_mcp_swollen, right_middle_finger_mcp_swollen, right_index_finger_mcp_swollen, right_index_finger_pip_swollen, right_shoulder_tender, right_elbow_tender, right_wrist_tender, left_wrist_tender, right_thumb_mcp_tender, left_thumb_mcp_tender, right_thumb_pip_tender, right_pinky_little_finger_mcp_tender, right_middle_finger_mcp_tender, right_pinky_little_finger_pip_tender, right_ring_finger_pip_tender, right_middle_finger_pip_tender, right_index_finger_pip_tender, left_index_finger_pip_tender, left_ring_finger_pip_tender, right_knee_tender.

*Automatic Linear Modeling.

LINEAR

```
/FIELDS TARGET=Activity INPUTS=right_shoulder_swollenleft_shoulder_swollenright_elbow_swollenleft_elbow_swollenright_wrist_swollenleft_wrist_swollenright_thumb_mcp_swollenleft_thumb_mcp_swollenright_thumb_pip_swollenleft_thumb_pip_swollenright_pinky_little_finger_mcp_swollenright_ring_finger_mcp_swollenright_middle_finger_mcp_swollenright_index_finger_mcp_swollenleft_index_finger_mcp_swollenleft_middle_finger_mcp_swollenleft_ring_finger_mcp_swollenleft_pinky_little_finger_mcp_swollenright_pinky_little_finger_pip_swollenright_ring_finger_pip_swollenright_middle_finger_pip_swollenright_index_finger_pip_swollenleft_index_finger_pip_swollenleft_middle_finger_pip_swollenleft_ring_finger_pip_swollenleft_pinky_little_finger_pip_swollenright_knee_swollenleft_knee_swollenright_shoulder_tenderleft_shoulder_tenderright_elbow_tenderleft_elbow_tenderright_wrist_tenderleft_wrist_tenderright_thumb_mcp_tenderleft_thumb_mcp_tenderright_thumb_pip_tenderleft_thumb_pip_tenderright_pinky_little_finger_mcp_tenderright_ring_finger_mcp_tenderright_middle_finger_mcp_tenderright_index_finger_mcp_tenderleft_index_finger_mcp_tenderleft_middle_finger_mcp_tenderleft_ring_finger_mcp_tenderleft_pinky_little_finger_mcp_tenderright_pinky_little_finger_pip_tenderright_ring_finger_pip_tenderright_middle_finger_pip_tenderright_index_finger_pip_tenderleft_index_finger_pip_tenderleft_middle_finger_pip_tenderleft_ring_finger_pip_tenderleft_pinky_little_finger_pip_tenderright_knee_tenderleft_knee_tendervisit_da_crpvisit_da_sga
```

```
/BUILD_OPTIONS OBJECTIVE=STANDARD USE_AUTO_DATA_PREPARATION=TRUE CONFIDENCE_LEVEL=95 MODEL_SELECTION=FORWARDSTEPWISE CRITERIA_FORWARD_STEPWISE=AICC REPLICATE_RESULTS=TRUE SEED=54752075
```

```
/ENSEMBLES COMBINING_RULE_CONTINUOUS$MEAN COMPONENT_MODELS_N=10.
```

Automatic Linear Modeling

Notes

Output Created		29-AUG-2025 19:54:40
Comments		
Input	Data	/home/joern/. Datenplatte/Joerns Dateien/Aktuell/Rheuma MetabolomicsFFM/08Ana lyseProgramme/R/OLD/P SA_das28_all_items.csv
	Active Dataset	DataSet1
	Filter	<none>
	Weight	<none>
	Split File	<none>
	N of Rows in Working Data File	80

Notes

Syntax

LINEAR
 /FIELDS
 TARGET=Activity
 INPUTS=right_shoulder_swollen
 left_shoulder_swollen
 right_elbow_swollen
 left_elbow_swollen
 right_wrist_swollen
 left_wrist_swollen
 right_thumb_mcp_swollen
 left_thumb_mcp_swollen
 right_thumb_pip_swollen
 left_thumb_pip_swollen
 right_pinky_little_finger_mcp_swollen
 right_ring_finger_mcp_swollen
 right_middle_finger_mcp_swollen
 right_index_finger_mcp_swollen
 left_index_finger_mcp_swollen
 left_middle_finger_mcp_swollen
 left_ring_finger_mcp_swollen
 left_pinky_little_finger_mcp_swollen

 right_pinky_little_finger_pip_swollen
 right_ring_finger_pip_swollen
 right_middle_finger_pip_swollen
 right_index_finger_pip_swollen
 left_index_finger_pip_swollen
 left_middle_finger_pip_swollen
 left_ring_finger_pip_swollen
 left_pinky_little_finger_pip_swollen
 right_knee_swollen
 left_knee_swollen
 right_shoulder_tender
 left_shoulder_tender
 right_elbow_tender
 left_elbow_tender
 right_wrist_tender
 left_wrist_tender
 right_thumb_mcp_tender
 left_thumb_mcp_tender
 right_thumb_pip_tender
 left_thumb_pip_tender

 right_pinky_little_finger_mcp_tender
 right_ring_finger_mcp_tender
 right_middle_finger_mcp

Notes

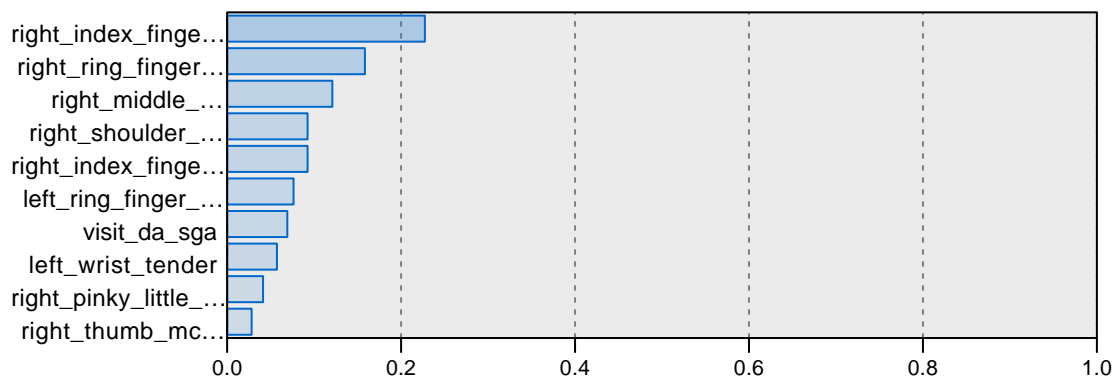
Resources	Processor Time	00:00:00.51
	Elapsed Time	00:00:00.00

Case Processing Summary

	N	Percent
Included	80	100.0%
Excluded	0	0.0%
Total	80	100.0%

Predictor Importance

Target: Activity



Least Important

Most Important