```
*Multilayer Perceptron Network.
MLP Leading_D (MLEVEL=N) WITH D1 D2 D3 D4 D5 D6 D7 D8 D9
 /RESCALE COVARIATE=STANDARDIZED
  /PARTITION  TRAINING=7  TESTING=3  HOLDOUT=0
  /ARCHITECTURE   AUTOMATIC=YES (MINUNITS=1 MAXUNITS=50)
  /CRITERIA TRAINING=BATCH OPTIMIZATION=SCALEDCONJUGATE
LAMBDAINITIAL=0.0000005
    SIGMAINITIAL=0.00005 INTERVALCENTER=0 INTERVALOFFSET=0.5 MEMSIZE=1000
  /PRINT CPS NETWORKINFO SUMMARY CLASSIFICATION SOLUTION IMPORTANCE
  /PLOT NETWORK
  /STOPPINGRULES ERRORSTEPS= 1 (DATA=AUTO) TRAININGTIMER=ON (MAXTIME=15)
MAXEPOCHS=AUTO
    ERRORCHANGE=1.0E-4 ERRORRATIO=0.001
 /MISSING USERMISSING=EXCLUDE .
```

Multilayer Perceptron

Notes

Output Created		10-DEC-2020 15:04:37
Comments		
Input	Data	C:\Users\vitart0\OneDrive\Documents\!MyDocs\!Sience\Quarantine definition survey\SPSS\NN_EN_covid_ordinal_9D.sav
	Active Dataset	DataSet4
	Filter	<none>
	Weight	<none>
	Split File	<none>
	N of Rows in Working Data File	104
Missing Value Handling	Definition of Missing	User- and system-missing values are treated as missing.
	Cases Used	Statistics are based on cases with valid data for all variables used by the procedure.
Weight Handling		not applicable

Syntax		MLP Leading_D (MLEVEL=N) WITH D1 D2 D3 D4 D5 D6 D7 D8 D9 /RESCALE COVARIATE=STANDARDIZ ED /PARTITION TRAINING=7 TESTING=3 HOLDOUT=0 /ARCHITECTURE AUTOMATIC=YES (MINUNITS=1 MAXUNITS=50) /CRITERIA TRAINING=BATCH OPTIMIZATION=SCALEDC ONJUGATE LAMBDAINITIAL=0.0000005 SIGMAINITIAL=0.00005 INTERVALCENTER=0 INTERVALOFFSET=0.5 MEMSIZE=1000 /PRINT CPS NETWORKINFO SUMMARY CLASSIFICATION SOLUTION IMPORTANCE /PLOT NETWORK /STOPPINGRULES ERRORSTEPS= 1 (DATA=AUTO) TRAININGTIMER=ON (MAXTIME=15) MAXEPOCHS=AUTO ERRORCHANGE=1.0E-4 ERRORRATIO=0.001 /MISSING USERMISSING=EXCLUDE .
Resources	Processor Time	00:00:01.81
	Elapsed Time	00:00:00.96

[DataSet4] C:\Users\vitart0\OneDrive\Documents\!MyDocs\!Sience\Quarantine

definition survey\SPSS\NN_EN_covid_ordinal_9D.sav

Case Processing Summary

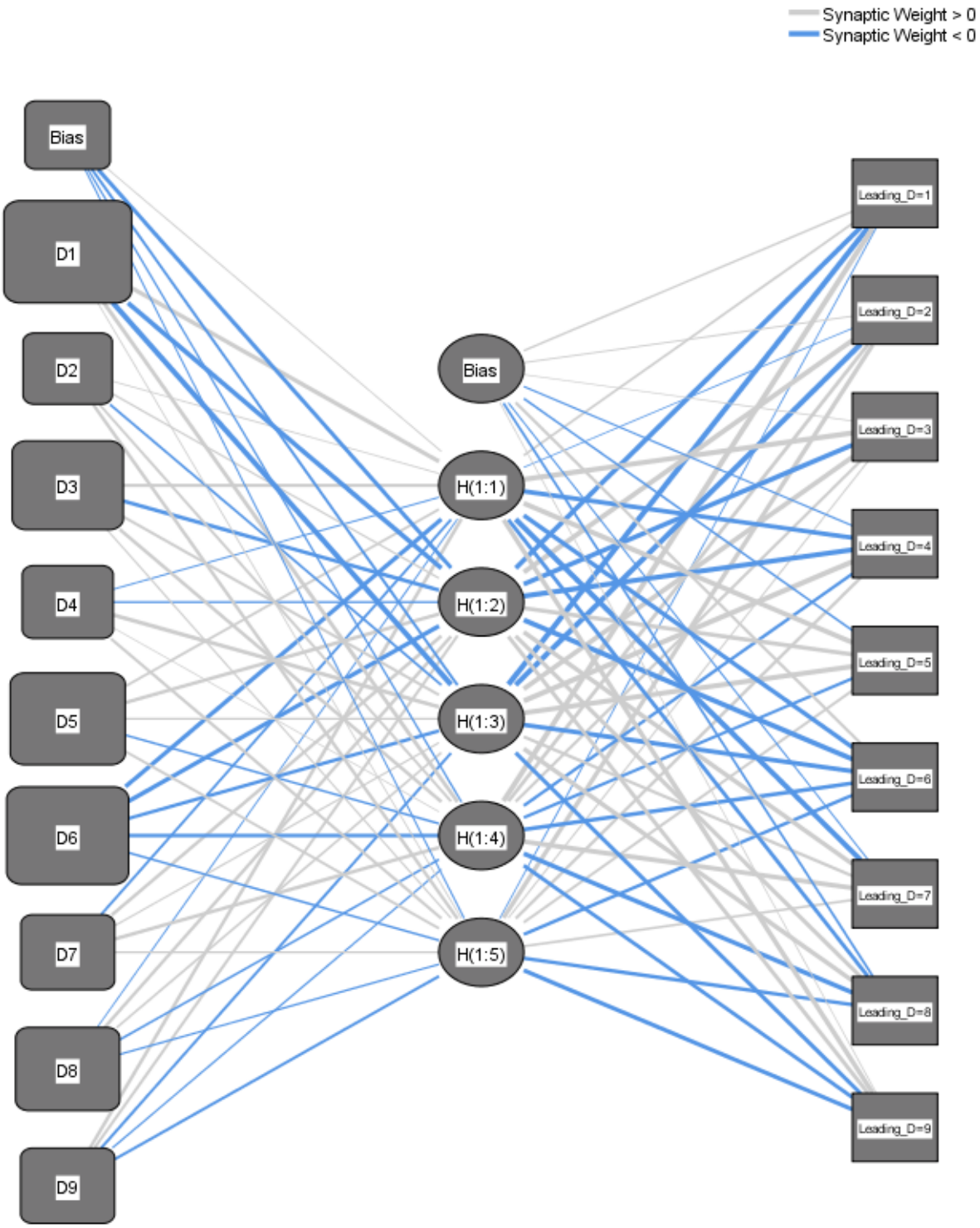
		N	Percent
Sample	Training	71	68.3%
	Testing	33	31.7%
Valid		104	100.0%
Excluded		0	
Total		104	

Network Information

Input Layer	Covariates	1	CONTACT RESTRICTION
		2	SANITATION AND HYGIENE
		3	ISOLATION OF INFECTED
		4	TOTAL ISOLATION
		5	HEALTH CARE
		6	VIRUS DISSEMINATION
		7	LIFESTYLE CHANGES
		8	RIGHTS AND FREEDOMS INFRINGEMENT
		9	BUREAUCRATIC RESPONSE
	Number of Units[a]		9
	Rescaling Method for Covariates		Standardized
Hidden Layer(s)	Number of Hidden Layers		1
	Number of Units in Hidden Layer 1[a]		5
	Activation Function		Hyperbolic tangent

Output Layer	Dependent Variables	1	Leading discourse in meaning
	Number of Units		9
	Activation Function		Softmax
	Error Function		Cross-entropy

a. Excluding the bias unit



Hidden layer activation function: Hyperbolic tangent

Output layer activation function: Softmax

Model Summary

Training	Cross Entropy Error	.189
	Percent Incorrect Predictions	0.0%
	Stopping Rule Used	1 consecutive step(s) with no decrease in error[a]
	Training Time	0:00:00.01
Testing	Cross Entropy Error	12.644
	Percent Incorrect Predictions	3.0%

Dependent Variable: Leading discourse in meaning

a. Error computations are based on the testing sample.

Parameter Estimates

		Predicted													
		Hidden Layer 1					Output Layer								
Predictor		H(1:1)	H(1:2)	H(1:3)	H(1:4)	H(1:5)	[Leading_D=1]	[Leading_D=2]	[Leading_D=3]	[Leading_D=4]	[Leading_D=5]	[Leading_D=6]	[Leading_D=7]	[Leading_D=8]	[Leading_D=9]
Input Layer	(Bias)	.152	-1.904	-.923	-.512	-.260									
	D1	1.997	-2.569	-3.552	1.792	.136									
	D2	.151	.402	-.689	.788	1.367									
	D3	1.236	-1.762	.979	1.403	.297									
	D4	-.217	-.552	1.873	.047	1.159									
	D5	.780	1.504	.549	-.584	.793									
	D6	-2.062	-2.157	-1.436	-1.747	-.632									
	D7	-.781	1.267	.340	1.471	.522									
	D8	-.198	1.203	.653	-.643	-.504									
	D9	1.434	1.033	-.938	-.499	-1.056									
Hidden Layer 1	(Bias)						.525	.181	.022	-.381	-.578	1.090	-.255	-.690	.089
	H(1:1)						.684	-.102	3.122	-2.456	2.947	-2.210	-3.337	-1.792	2.565
	H(1:2)						-2.933	2.988	-2.703	-3.006	1.996	-3.023	2.211	1.976	1.896
	H(1:3)						-4.316	-3.921	2.647	3.196	3.005	-2.556	1.192	2.260	-1.967
	H(1:4)						3.201	1.567	1.085	-1.197	-1.192	-1.921	2.619	-2.509	-1.774
	H(1:5)						-.176	2.185	.228	1.197	.803	-1.427	.698	-1.696	-2.005

Classification

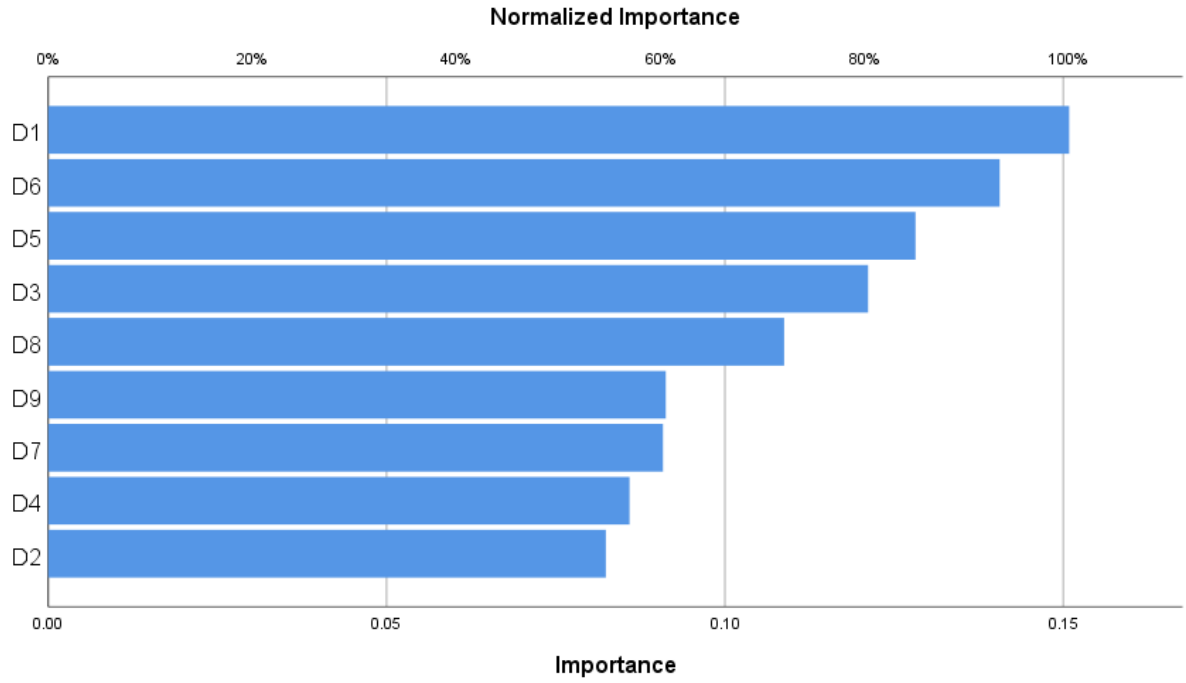
		Predicted									
Sample	Observed	1	2	3	4	5	6	7	8	9	Percent Correct
Training	1	15	0	0	0	0	0	0	0	0	100.0%

	2	0	4	0	0	0	0	0	0	0	100.0%
	3	0	0	7	0	0	0	0	0	0	100.0%
	4	0	0	0	6	0	0	0	0	0	100.0%
	5	0	0	0	0	4	0	0	0	0	100.0%
	6	0	0	0	0	0	18	0	0	0	100.0%
	7	0	0	0	0	0	0	7	0	0	100.0%
	8	0	0	0	0	0	0	0	4	0	100.0%
	9	0	0	0	0	0	0	0	0	6	100.0%
	Overall Percent	21.1%	5.6%	9.9%	8.5%	5.6%	25.4%	9.9%	5.6%	8.5%	100.0%
Testing	1	6	0	0	0	0	0	0	0	0	100.0%
	2	0	2	1	0	0	0	0	0	0	66.7%
	3	0	0	3	0	0	0	0	0	0	100.0%
	4	0	0	0	1	0	0	0	0	0	100.0%
	5	0	0	0	0	0	0	0	0	0	0.0%
	6	0	0	0	0	0	7	0	0	0	100.0%
	7	0	0	0	0	0	0	6	0	0	100.0%
	8	0	0	0	0	0	0	0	1	0	100.0%
	9	0	0	0	0	0	0	0	0	6	100.0%
	Overall Percent	18.2%	6.1%	12.1%	3.0%	0.0%	21.2%	18.2%	3.0%	18.2%	97.0%

Dependent Variable: Leading discourse in meaning

Independent Variable Importance

	Importance	Normalized Importance
CONTACT RESTRICTION	.151	100.0%
SANITATION AND HYGIENE	.082	54.6%
ISOLATION OF INFECTED	.121	80.3%
TOTAL ISOLATION	.086	56.9%
HEALTH CARE	.128	84.9%
VIRUS DISSEMINATION	.141	93.2%
LIFESTYLE CHANGES	.091	60.2%
RIGHTS AND FREEDOMS INFRINGEMENT	.109	72.1%
BUREAUCRATIC RESPONSE	.091	60.5%




```
*Multilayer Perceptron Network.
MLP Leading_D (MLEVEL=N) WITH D1 D2 D3 D4 D5 D6 D7 D8 D9
 /RESCALE COVARIATE=STANDARDIZED
  /PARTITION  TRAINING=7  TESTING=3  HOLDOUT=0
  /ARCHITECTURE   AUTOMATIC=YES (MINUNITS=1 MAXUNITS=50)
  /CRITERIA TRAINING=BATCH OPTIMIZATION=SCALEDCONJUGATE
LAMBDAINITIAL=0.0000005
    SIGMAINITIAL=0.00005 INTERVALCENTER=0 INTERVALOFFSET=0.5 MEMSIZE=1000
  /PRINT CPS NETWORKINFO SUMMARY CLASSIFICATION SOLUTION IMPORTANCE
  /PLOT NETWORK
  /STOPPINGRULES ERRORSTEPS= 1 (DATA=AUTO) TRAININGTIMER=ON (MAXTIME=15)
MAXEPOCHS=AUTO
    ERRORCHANGE=1.0E-4 ERRORRATIO=0.001
 /MISSING USERMISSING=EXCLUDE .
```

Multilayer Perceptron

Notes

Output Created	10-DEC-2020 15:06:17
Comments	

Input	Data	C:\Users\vitart0\OneDrive\Documents\!MyDocs\!Sience\Quarantine definition survey\SPSS\NN_EN_covid_ordinal_9D.sav
	Active Dataset	DataSet4
	Filter	<none>
	Weight	<none>
	Split File	<none>
	N of Rows in Working Data File	104
Missing Value Handling	Definition of Missing	User- and system-missing values are treated as missing.
	Cases Used	Statistics are based on cases with valid data for all variables used by the procedure.
Weight Handling		not applicable

Syntax		MLP Leading_D (MLEVEL=N) WITH D1 D2 D3 D4 D5 D6 D7 D8 D9 /RESCALE COVARIATE=STANDARDIZ ED /PARTITION TRAINING=7 TESTING=3 HOLDOUT=0 /ARCHITECTURE AUTOMATIC=YES (MINUNITS=1 MAXUNITS=50) /CRITERIA TRAINING=BATCH OPTIMIZATION=SCALEDC ONJUGATE LAMBDAINITIAL=0.0000005 SIGMAINITIAL=0.00005 INTERVALCENTER=0 INTERVALOFFSET=0.5 MEMSIZE=1000 /PRINT CPS NETWORKINFO SUMMARY CLASSIFICATION SOLUTION IMPORTANCE /PLOT NETWORK /STOPPINGRULES ERRORSTEPS= 1 (DATA=AUTO) TRAININGTIMER=ON (MAXTIME=15) MAXEPOCHS=AUTO ERRORCHANGE=1.0E-4 ERRORRATIO=0.001 /MISSING USERMISSING=EXCLUDE .
Resources	Processor Time	00:00:00.80
	Elapsed Time	00:00:00.54

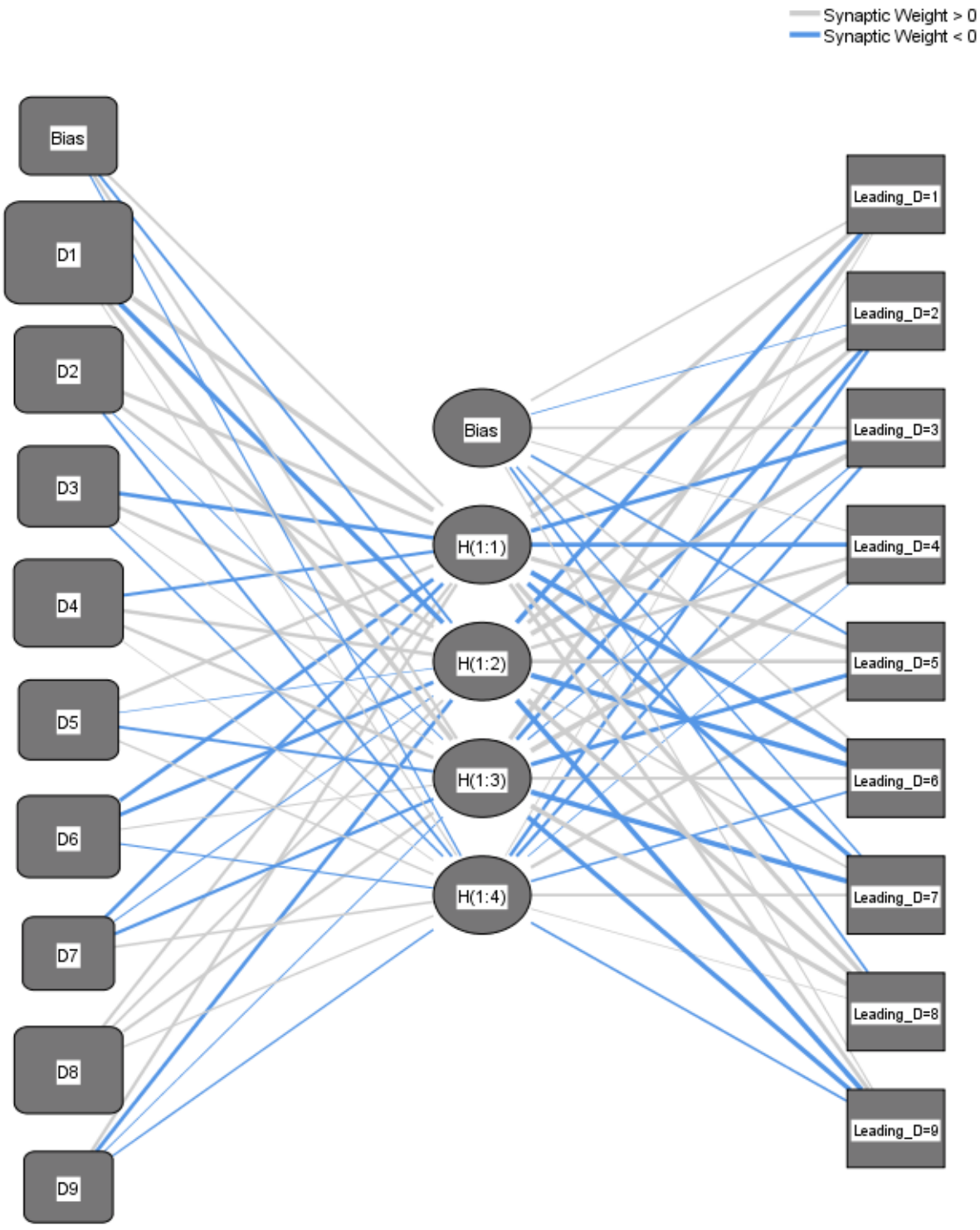
Case Processing Summary

		N	Percent
Sample	Training	77	74.0%
	Testing	27	26.0%
Valid		104	100.0%
Excluded		0	
Total		104	

Network Information

Input Layer	Covariates	1	CONTACT RESTRICTION
		2	SANITATION AND HYGIENE
		3	ISOLATION OF INFECTED
		4	TOTAL ISOLATION
		5	HEALTH CARE
		6	VIRUS DISSEMINATION
		7	LIFESTYLE CHANGES
		8	RIGHTS AND FREEDOMS INFRINGEMENT
		9	BUREAUCRATIC RESPONSE
	Number of Units[a]		9
	Rescaling Method for Covariates		Standardized
Hidden Layer(s)	Number of Hidden Layers		1
	Number of Units in Hidden Layer 1[a]		4
	Activation Function		Hyperbolic tangent
Output Layer	Dependent Variables	1	Leading discourse in meaning
	Number of Units		9
	Activation Function		Softmax
	Error Function		Cross-entropy

a. Excluding the bias unit



Hidden layer activation function: Hyperbolic tangent

Output layer activation function: Softmax

Model Summary

Training	Cross Entropy Error	3.966
	Percent Incorrect Predictions	0.0%
	Stopping Rule Used	1 consecutive step(s) with no decrease in error[a]
	Training Time	0:00:00.03
Testing	Cross Entropy Error	4.925
	Percent Incorrect Predictions	7.4%

Dependent Variable: Leading discourse in meaning

a. Error computations are based on the testing sample.

Parameter Estimates

		Predicted												
		Hidden Layer 1				Output Layer								
Predictor		H(1:1)	H(1:2)	H(1:3)	H(1:4)	[Leading_D =1]	[Leading_D =2]	[Leading_D =3]	[Leading_D =4]	[Leading_D =5]	[Leading_D =6]	[Leading_D =7]	[Leading_D =8]	[Leading_D =9]
Input Layer	(Bias)	.825	-.755	.845	-.362									
	D1	2.701	-2.650	2.616	.230									
	D2	1.809	1.337	-.151	-.752									
	D3	-1.776	1.335	.132	-.480									
	D4	-.909	1.342	1.230	.114									
	D5	1.219	-.002	-.837	.432									
	D6	-1.632	-1.397	.162	-.236									
	D7	-1.306	-.177	-.950	.536									
	D8	.850	.790	.880	.410									
	D9	1.000	-1.366	-.119	-.429									
Hidden Layer 1	(Bias)					.491	-.110	.737	.154	-.627	.512	-.467	-.625	.257
	H(1:1)					2.176	2.130	-1.914	-2.232	2.345	-3.591	-2.413	2.508	1.608
	H(1:2)					-2.414	1.943	2.817	1.285	1.653	-4.168	.485	2.676	-2.789
	H(1:3)					2.495	-1.693	-.353	3.738	-2.085	.808	-3.505	2.603	-2.519
	H(1:4)					.114	-1.281	-.907	-.083	1.190	-.528	.801	.015	-.577

Classification

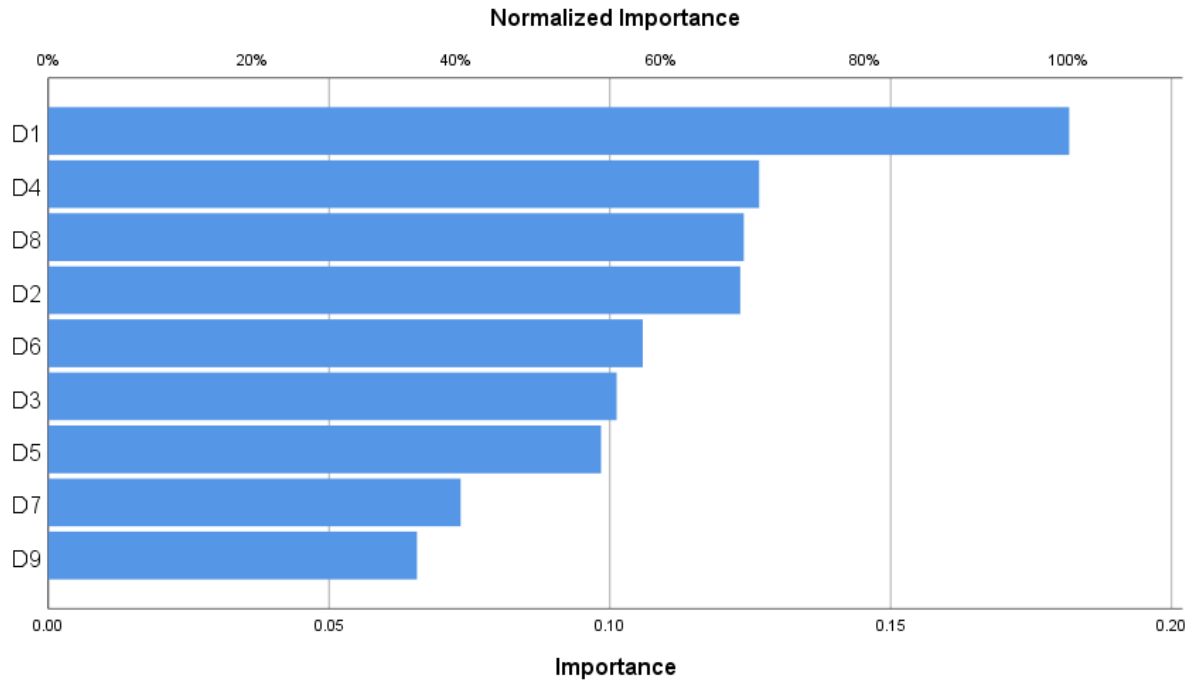
Sample	Observed	Predicted 1	2	3	4	5	6	7	8	9	Percent Correct
Training	1	19	0	0	0	0	0	0	0	0	100.0%
	2	0	5	0	0	0	0	0	0	0	100.0%
	3	0	0	8	0	0	0	0	0	0	100.0%
	4	0	0	0	6	0	0	0	0	0	100.0%
	5	0	0	0	0	3	0	0	0	0	100.0%
	6	0	0	0	0	0	14	0	0	0	100.0%
	7	0	0	0	0	0	0	8	0	0	100.0%
	8	0	0	0	0	0	0	0	5	0	100.0%
	9	0	0	0	0	0	0	0	0	9	100.0%
	Overall Percent	24.7%	6.5%	10.4%	7.8%	3.9%	18.2%	10.4%	6.5%	11.7%	100.0%
Testing	1	2	0	0	0	0	0	0	0	0	100.0%
	2	0	2	0	0	0	0	0	0	0	100.0%
	3	0	0	2	0	0	0	0	0	0	100.0%
	4	0	0	0	1	0	0	0	0	0	100.0%
	5	0	0	0	0	1	0	0	0	0	100.0%
	6	1	0	0	0	0	10	0	0	0	90.9%
	7	0	0	0	0	0	1	4	0	0	80.0%
	8	0	0	0	0	0	0	0	0	0	0.0%
	9	0	0	0	0	0	0	0	0	3	100.0%
	Overall Percent	11.1%	7.4%	7.4%	3.7%	3.7%	40.7%	14.8%	0.0%	11.1%	92.6%

Dependent Variable: Leading discourse in meaning

Independent Variable Importance

	Importance	Normalized Importance
CONTACT RESTRICTION	.182	100.0%
SANITATION AND HYGIENE	.123	67.8%
ISOLATION OF INFECTED	.101	55.7%
TOTAL ISOLATION	.127	69.6%
HEALTH CARE	.098	54.2%

VIRUS DISSEMINATION	.106	58.2%
LIFESTYLE CHANGES	.073	40.4%
RIGHTS AND FREEDOMS INFRINGEMENT	.124	68.1%
BUREAUCRATIC RESPONSE	.066	36.1%




```
*Multilayer Perceptron Network.
MLP Leading_D (MLEVEL=N) WITH D1 D2 D3 D4 D5 D6 D7 D8 D9
 /RESCALE COVARIATE=STANDARDIZED
  /PARTITION  TRAINING=7  TESTING=3  HOLDOUT=0
  /ARCHITECTURE   AUTOMATIC=YES (MINUNITS=1 MAXUNITS=50)
  /CRITERIA TRAINING=BATCH OPTIMIZATION=SCALEDCONJUGATE
LAMBDAINITIAL=0.0000005
    SIGMAINITIAL=0.00005 INTERVALCENTER=0 INTERVALOFFSET=0.5 MEMSIZE=1000
  /PRINT CPS NETWORKINFO SUMMARY CLASSIFICATION SOLUTION IMPORTANCE
  /PLOT NETWORK
  /STOPPINGRULES ERRORSTEPS= 1 (DATA=AUTO) TRAININGTIMER=ON (MAXTIME=15)
MAXEPOCHS=AUTO
    ERRORCHANGE=1.0E-4 ERRORRATIO=0.001
 /MISSING USERMISSING=EXCLUDE .
```

Multilayer Perceptron

Notes

Output Created		10-DEC-2020 15:06:31
Comments		
Input	Data	C:\Users\vitart0\OneDrive\Documents\!MyDocs\!Sience\Quarantine definition survey\SPSS\NN_EN_covid_ordinal_9D.sav
	Active Dataset	DataSet4
	Filter	<none>
	Weight	<none>
	Split File	<none>
	N of Rows in Working Data File	104
Missing Value Handling	Definition of Missing	User- and system-missing values are treated as missing.
	Cases Used	Statistics are based on cases with valid data for all variables used by the procedure.
Weight Handling		not applicable

Syntax		MLP Leading_D (MLEVEL=N) WITH D1 D2 D3 D4 D5 D6 D7 D8 D9 /RESCALE COVARIATE=STANDARDIZ ED /PARTITION TRAINING=7 TESTING=3 HOLDOUT=0 /ARCHITECTURE AUTOMATIC=YES (MINUNITS=1 MAXUNITS=50) /CRITERIA TRAINING=BATCH OPTIMIZATION=SCALEDC ONJUGATE LAMBDAINITIAL=0.0000005 SIGMAINITIAL=0.00005 INTERVALCENTER=0 INTERVALOFFSET=0.5 MEMSIZE=1000 /PRINT CPS NETWORKINFO SUMMARY CLASSIFICATION SOLUTION IMPORTANCE /PLOT NETWORK /STOPPINGRULES ERRORSTEPS= 1 (DATA=AUTO) TRAININGTIMER=ON (MAXTIME=15) MAXEPOCHS=AUTO ERRORCHANGE=1.0E-4 ERRORRATIO=0.001 /MISSING USERMISSING=EXCLUDE .
Resources	Processor Time	00:00:00.59
	Elapsed Time	00:00:00.67

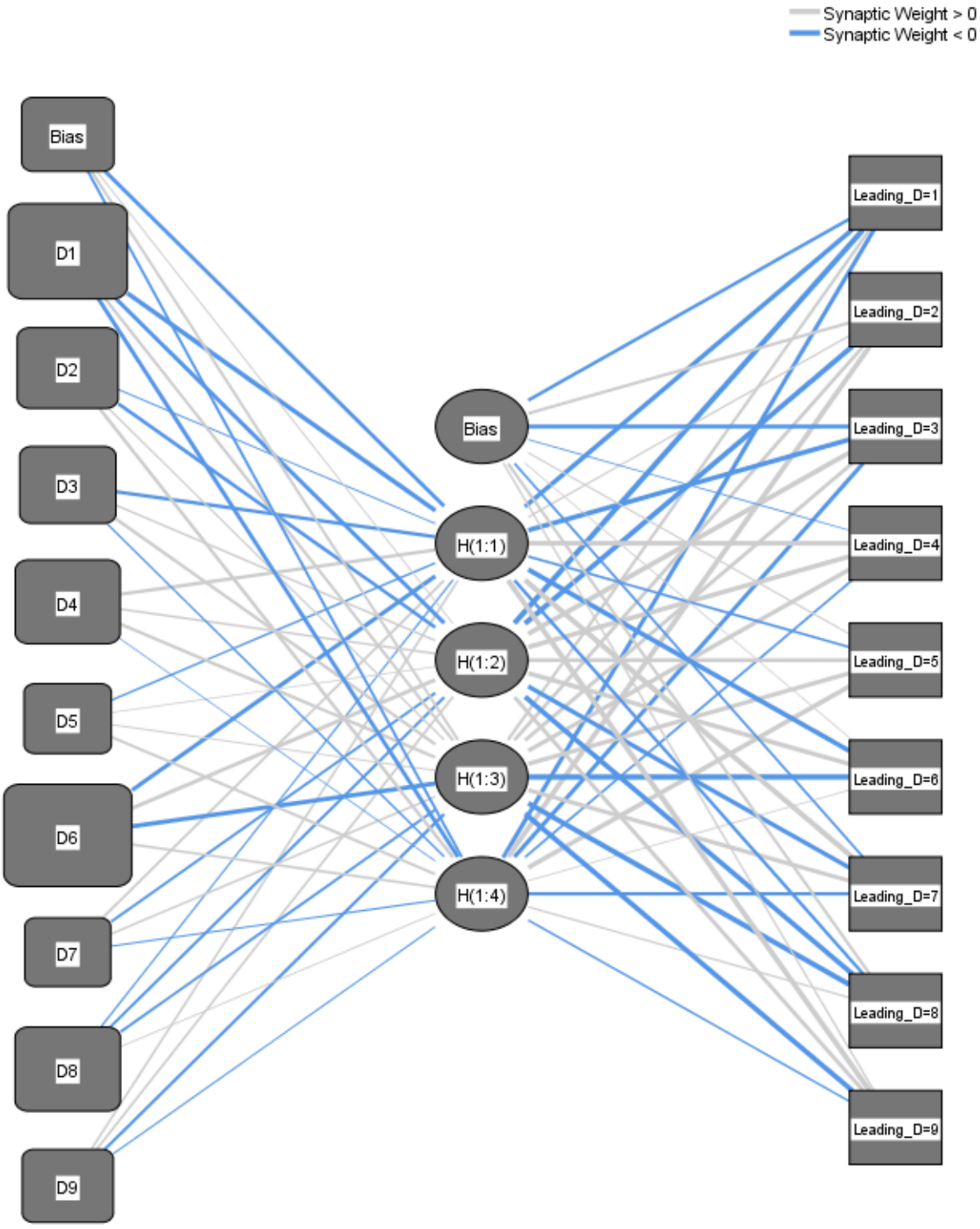
Case Processing Summary

		N	Percent
Sample	Training	76	73.1%
	Testing	28	26.9%
Valid		104	100.0%
Excluded		0	
Total		104	

Network Information

Input Layer	Covariates	1	CONTACT RESTRICTION
		2	SANITATION AND HYGIENE
		3	ISOLATION OF INFECTED
		4	TOTAL ISOLATION
		5	HEALTH CARE
		6	VIRUS DISSEMINATION
		7	LIFESTYLE CHANGES
		8	RIGHTS AND FREEDOMS INFRINGEMENT
		9	BUREAUCRATIC RESPONSE
	Number of Units[a]		9
	Rescaling Method for Covariates		Standardized
Hidden Layer(s)	Number of Hidden Layers		1
	Number of Units in Hidden Layer 1[a]		4
	Activation Function		Hyperbolic tangent
Output Layer	Dependent Variables	1	Leading discourse in meaning
	Number of Units		9
	Activation Function		Softmax
	Error Function		Cross-entropy

a. Excluding the bias unit



Hidden layer activation function: Hyperbolic tangent

Output layer activation function: Softmax

Model Summary

Training	Cross Entropy Error	.260
	Percent Incorrect Predictions	0.0%
	Stopping Rule Used	1 consecutive step(s) with no decrease in error[a]
	Training Time	0:00:00.04
Testing	Cross Entropy Error	2.209
	Percent Incorrect Predictions	3.6%

Dependent Variable: Leading discourse in meaning

a. Error computations are based on the testing sample.

Parameter Estimates

		Predicted												
		Hidden Layer 1				Output Layer								
Predictor		H(1:1)	H(1:2)	H(1:3)	H(1:4)	[Leading_D =1]	[Leading_D =2]	[Leading_D =3]	[Leading_D =4]	[Leading_D =5]	[Leading_D =6]	[Leading_D =7]	[Leading_D =8]	[Leading_D =9]
Input Layer	(Bias)	-1.803	.360	1.152	-1.110									
	D1	-3.250	-2.215	1.270	-1.938									
	D2	-.463	-1.701	.687	1.591									
	D3	-1.708	.758	1.537	-.706									
	D4	1.693	.823	1.590	-.099									
	D5	-.711	.227	.475	1.232									
	D6	-2.467	1.901	-3.188	.972									
	D7	.974	-1.058	.789	-.529									
	D8	-.623	-1.192	-1.053	.292									
	D9	.825	.891	-1.428	-.522									
Hidden Layer 1	(Bias)					-1.595	1.489	-1.912	-.274	.481	.202	-.914	1.403	.699
	H(1:1)					-3.311	.665	-3.587	4.018	-.965	-3.723	4.634	-1.556	4.632
	H(1:2)					-4.903	-4.155	3.746	3.478	1.741	3.209	-2.973	-4.026	1.927
	H(1:3)					1.467	1.720	1.774	2.967	2.970	-4.676	2.639	-4.522	-4.105
	H(1:4)					-2.667	4.071	-2.324	-.910	3.431	.285	-1.685	.702	-.764

Classification

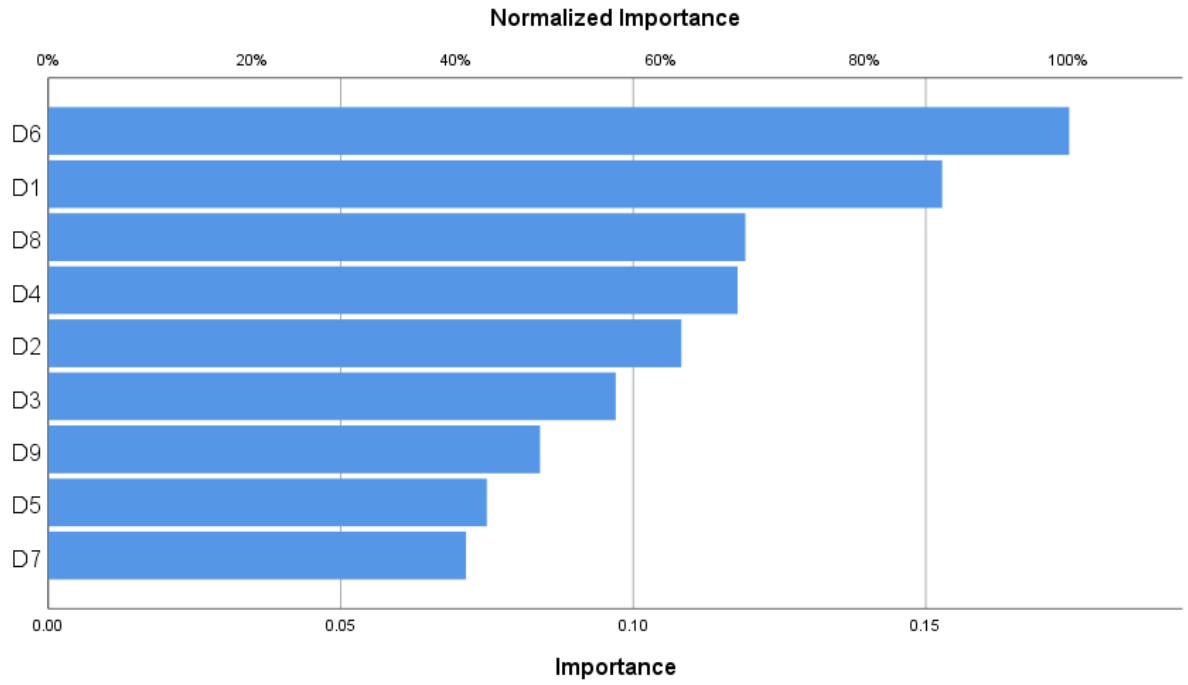
Sample	Observed	Predicted 1	2	3	4	5	6	7	8	9	Percent Correct
Training	1	15	0	0	0	0	0	0	0	0	100.0%
	2	0	5	0	0	0	0	0	0	0	100.0%
	3	0	0	8	0	0	0	0	0	0	100.0%
	4	0	0	0	6	0	0	0	0	0	100.0%
	5	0	0	0	0	4	0	0	0	0	100.0%
	6	0	0	0	0	0	16	0	0	0	100.0%
	7	0	0	0	0	0	0	9	0	0	100.0%
	8	0	0	0	0	0	0	0	4	0	100.0%
	9	0	0	0	0	0	0	0	0	9	100.0%
	Overall Percent	19.7%	6.6%	10.5%	7.9%	5.3%	21.1%	11.8%	5.3%	11.8%	100.0%
Testing	1	6	0	0	0	0	0	0	0	0	100.0%
	2	0	2	0	0	0	0	0	0	0	100.0%
	3	0	0	2	0	0	0	0	0	0	100.0%
	4	0	0	0	1	0	0	0	0	0	100.0%
	5	0	0	0	0	0	0	0	0	0	0.0%
	6	0	0	0	0	0	9	0	0	0	100.0%
	7	0	0	0	0	0	0	3	0	1	75.0%
	8	0	0	0	0	0	0	0	1	0	100.0%
	9	0	0	0	0	0	0	0	0	3	100.0%
	Overall Percent	21.4%	7.1%	7.1%	3.6%	0.0%	32.1%	10.7%	3.6%	14.3%	96.4%

Dependent Variable: Leading discourse in meaning

Independent Variable Importance

	Importance	Normalized Importance
CONTACT RESTRICTION	.153	87.6%
SANITATION AND HYGIENE	.108	62.0%
ISOLATION OF INFECTED	.097	55.6%
TOTAL ISOLATION	.118	67.5%
HEALTH CARE	.075	43.0%

VIRUS DISSEMINATION	.175	100.0%
LIFESTYLE CHANGES	.071	40.9%
RIGHTS AND FREEDOMS INFRINGEMENT	.119	68.3%
BUREAUCRATIC RESPONSE	.084	48.2%




```
*Multilayer Perceptron Network.
MLP Leading_D (MLEVEL=N) WITH D1 D2 D3 D4 D5 D6 D7 D8 D9
 /RESCALE COVARIATE=STANDARDIZED
  /PARTITION  TRAINING=7  TESTING=3  HOLDOUT=0
  /ARCHITECTURE   AUTOMATIC=YES (MINUNITS=1 MAXUNITS=50)
  /CRITERIA TRAINING=BATCH OPTIMIZATION=SCALEDCONJUGATE
LAMBDAINITIAL=0.0000005
    SIGMAINITIAL=0.00005 INTERVALCENTER=0 INTERVALOFFSET=0.5 MEMSIZE=1000
  /PRINT CPS NETWORKINFO SUMMARY CLASSIFICATION SOLUTION IMPORTANCE
  /PLOT NETWORK
  /STOPPINGRULES ERRORSTEPS= 1 (DATA=AUTO) TRAININGTIMER=ON (MAXTIME=15)
MAXEPOCHS=AUTO
    ERRORCHANGE=1.0E-4 ERRORRATIO=0.001
 /MISSING USERMISSING=EXCLUDE .
```

Multilayer Perceptron

Notes

Output Created		10-DEC-2020 15:06:41
Comments		
Input	Data	C:\Users\vitart0\OneDrive\Documents\!MyDocs\!Sience\Quarantine definition survey\SPSS\NN_EN_covid_ordinal_9D.sav
	Active Dataset	DataSet4
	Filter	<none>
	Weight	<none>
	Split File	<none>
	N of Rows in Working Data File	104
Missing Value Handling	Definition of Missing	User- and system-missing values are treated as missing.
	Cases Used	Statistics are based on cases with valid data for all variables used by the procedure.
Weight Handling		not applicable

Syntax		MLP Leading_D (MLEVEL=N) WITH D1 D2 D3 D4 D5 D6 D7 D8 D9 /RESCALE COVARIATE=STANDARDIZ ED /PARTITION TRAINING=7 TESTING=3 HOLDOUT=0 /ARCHITECTURE AUTOMATIC=YES (MINUNITS=1 MAXUNITS=50) /CRITERIA TRAINING=BATCH OPTIMIZATION=SCALEDC ONJUGATE LAMBDAINITIAL=0.0000005 SIGMAINITIAL=0.00005 INTERVALCENTER=0 INTERVALOFFSET=0.5 MEMSIZE=1000 /PRINT CPS NETWORKINFO SUMMARY CLASSIFICATION SOLUTION IMPORTANCE /PLOT NETWORK /STOPPINGRULES ERRORSTEPS= 1 (DATA=AUTO) TRAININGTIMER=ON (MAXTIME=15) MAXEPOCHS=AUTO ERRORCHANGE=1.0E-4 ERRORRATIO=0.001 /MISSING USERMISSING=EXCLUDE .
Resources	Processor Time	00:00:00.72
	Elapsed Time	00:00:00.76

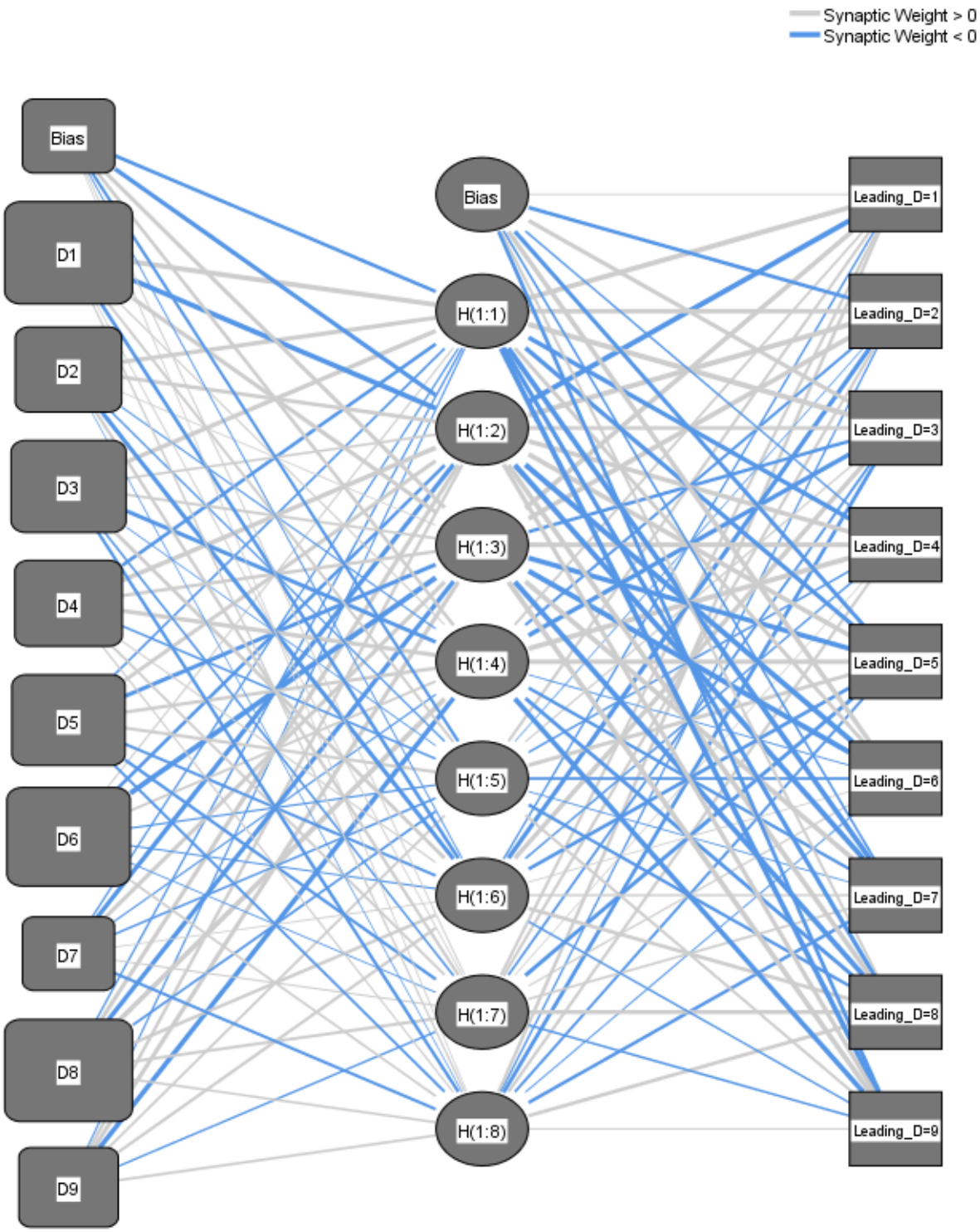
Case Processing Summary

		N	Percent
Sample	Training	67	64.4%
	Testing	37	35.6%
Valid		104	100.0%
Excluded		0	
Total		104	

Network Information

Input Layer	Covariates	1	CONTACT RESTRICTION
		2	SANITATION AND HYGIENE
		3	ISOLATION OF INFECTED
		4	TOTAL ISOLATION
		5	HEALTH CARE
		6	VIRUS DISSEMINATION
		7	LIFESTYLE CHANGES
		8	RIGHTS AND FREEDOMS INFRINGEMENT
		9	BUREAUCRATIC RESPONSE
	Number of Units[a]		9
	Rescaling Method for Covariates		Standardized
Hidden Layer(s)	Number of Hidden Layers		1
	Number of Units in Hidden Layer 1[a]		8
	Activation Function		Hyperbolic tangent
Output Layer	Dependent Variables	1	Leading discourse in meaning
	Number of Units		9
	Activation Function		Softmax
	Error Function		Cross-entropy

a. Excluding the bias unit



Hidden layer activation function: Hyperbolic tangent

Output layer activation function: Softmax

Model Summary

Training	Cross Entropy Error	.089
	Percent Incorrect Predictions	0.0%
	Stopping Rule Used	Training error ratio criterion (.001) achieved
	Training Time	0:00:00.03
Testing	Cross Entropy Error	8.452
	Percent Incorrect Predictions	2.7%

Dependent Variable: Leading discourse in meaning

Parameter Estimates

		Predicted															
		Hidden Layer 1								Output Layer							
Predictor		H(1:1)	H(1:2)	H(1:3)	H(1:4)	H(1:5)	H(1:6)	H(1:7)	H(1:8)	[Leading_D=1]	[Leading_D=2]	[Leading_D=3]	[Leading_D=4]	[Leading_D=5]	[Leading_D=6]	[Leading_D=7]	[Leading_D=8]	[Leading_D=9]
Input Layer	(Bias)	-.883	-1.746	1.279	.775	-.537	-.140	.135	.052									
	D1	2.954	-3.253	1.389	.186	.442	-.825	.113	.287									
	D2	1.483	1.163	.057	-.240	-.282	-1.433	.574	-.027									
	D3	1.911	.403	.465	-1.239	-.067	.905	-.338	-.702									
	D4	-.788	2.185	.780	1.471	-.342	.169	.429	.251									
	D5	-.368	1.157	-1.277	.791	.590	-.497	-.575	-.433									
	D6	.207	-.765	-4.741	.431	-.279	-.257	-.120	.375									
	D7	-.287	-2.137	1.264	-.263	-.338	.072	.175	-.533									
	D8	-.305	1.397	-2.085	2.810	-.381	.724	.558	.376									
	D9	-.266	.687	1.326	-2.549	.428	.539	-.326	.441									
Hidden Layer 1	(Bias)									.137	-.935	1.321	-.296	-1.280	2.417	-.363	.477	-.948
	H(1:1)									3.198	2.232	4.964	-2.117	-1.799	1.046	-3.458	-1.897	-3.943
	H(1:2)									-4.664	4.585	.907	2.389	2.518	-5.005	-4.805	2.799	1.647
	H(1:3)									2.520	2.616	-.782	2.797	-3.106	-6.249	2.806	-4.127	3.117
	H(1:4)									.405	-.480	-2.110	3.185	2.195	-.138	-.605	-.978	-2.919
	H(1:5)									.495	-.033	.269	-.336	1.181	-.494	-.127	-.691	.492

H(16)									-.315	-2.025	2.178	-.321	-.872	.096	.336	.911	-.335
H(17)									.524	.511	-.420	.019	-1.168	.278	.380	1.206	-.371
H(18)									.729	-.290	-.954	.530	-.460	-.167	-.746	.930	.168

Classification

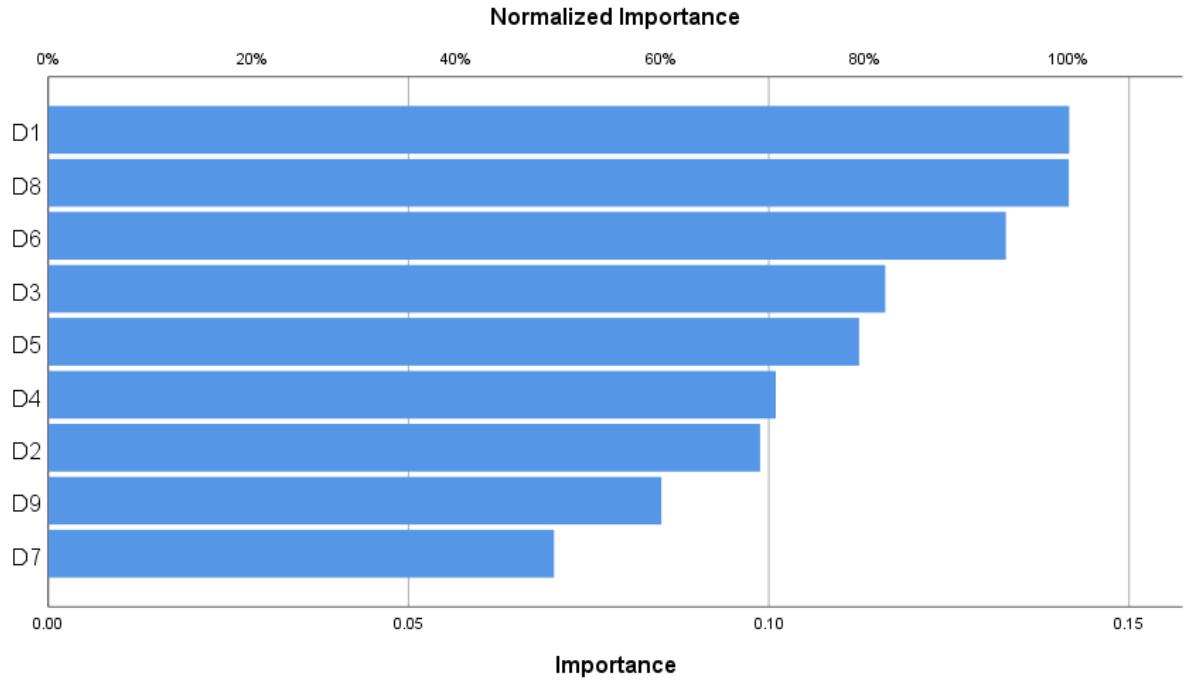
		Predicted									
Sample	Observed	1	2	3	4	5	6	7	8	9	Percent Correct
Training	1	9	0	0	0	0	0	0	0	0	100.0%
	2	0	4	0	0	0	0	0	0	0	100.0%
	3	0	0	6	0	0	0	0	0	0	100.0%
	4	0	0	0	5	0	0	0	0	0	100.0%
	5	0	0	0	0	3	0	0	0	0	100.0%
	6	0	0	0	0	0	22	0	0	0	100.0%
	7	0	0	0	0	0	0	10	0	0	100.0%
	8	0	0	0	0	0	0	0	3	0	100.0%
	9	0	0	0	0	0	0	0	0	5	100.0%
	Overall Percent	13.4%	6.0%	9.0%	7.5%	4.5%	32.8%	14.9%	4.5%	7.5%	100.0%
Testing	1	12	0	0	0	0	0	0	0	0	100.0%
	2	0	3	0	0	0	0	0	0	0	100.0%
	3	0	0	4	0	0	0	0	0	0	100.0%
	4	0	0	0	2	0	0	0	0	0	100.0%
	5	0	0	0	0	1	0	0	0	0	100.0%
	6	0	0	0	0	0	2	0	1	0	66.7%
	7	0	0	0	0	0	0	3	0	0	100.0%
	8	0	0	0	0	0	0	0	2	0	100.0%
	9	0	0	0	0	0	0	0	0	7	100.0%
	Overall Percent	32.4%	8.1%	10.8%	5.4%	2.7%	5.4%	8.1%	8.1%	18.9%	97.3%

Dependent Variable: Leading discourse in meaning

Independent Variable Importance

	Importance	Normalized Importance

CONTACT RESTRICTION	.142	100.0%
SANITATION AND HYGIENE	.099	69.7%
ISOLATION OF INFECTED	.116	82.0%
TOTAL ISOLATION	.101	71.3%
HEALTH CARE	.113	79.4%
VIRUS DISSEMINATION	.133	93.8%
LIFESTYLE CHANGES	.070	49.5%
RIGHTS AND FREEDOMS INFRINGEMENT	.142	100.0%
BUREAUCRATIC RESPONSE	.085	60.1%




```
*Multilayer Perceptron Network.
MLP Leading_D (MLEVEL=N) WITH D1 D2 D3 D4 D5 D6 D7 D8 D9
 /RESCALE COVARIATE=STANDARDIZED
  /PARTITION  TRAINING=7  TESTING=3  HOLDOUT=0
  /ARCHITECTURE   AUTOMATIC=YES (MINUNITS=1 MAXUNITS=50)
  /CRITERIA TRAINING=BATCH OPTIMIZATION=SCALEDCONJUGATE
LAMBDAINITIAL=0.0000005
    SIGMAINITIAL=0.00005 INTERVALCENTER=0 INTERVALOFFSET=0.5 MEMSIZE=1000
  /PRINT CPS NETWORKINFO SUMMARY CLASSIFICATION SOLUTION IMPORTANCE
  /PLOT NETWORK
  /STOPPINGRULES ERRORSTEPS= 1 (DATA=AUTO) TRAININGTIMER=ON (MAXTIME=15)
MAXEPOCHS=AUTO
    ERRORCHANGE=1.0E-4 ERRORRATIO=0.001
 /MISSING USERMISSING=EXCLUDE .
```

Multilayer Perceptron

Notes

Output Created		10-DEC-2020 15:06:50
Comments		
Input	Data	C:\Users\vitart0\OneDrive\Documents\!MyDocs\!Sience\Quarantine definition survey\SPSS\NN_EN_covid_ordinal_9D.sav
	Active Dataset	DataSet4
	Filter	<none>
	Weight	<none>
	Split File	<none>
	N of Rows in Working Data File	104
Missing Value Handling	Definition of Missing	User- and system-missing values are treated as missing.
	Cases Used	Statistics are based on cases with valid data for all variables used by the procedure.
Weight Handling		not applicable

Syntax		MLP Leading_D (MLEVEL=N) WITH D1 D2 D3 D4 D5 D6 D7 D8 D9 /RESCALE COVARIATE=STANDARDIZ ED /PARTITION TRAINING=7 TESTING=3 HOLDOUT=0 /ARCHITECTURE AUTOMATIC=YES (MINUNITS=1 MAXUNITS=50) /CRITERIA TRAINING=BATCH OPTIMIZATION=SCALEDC ONJUGATE LAMBDAINITIAL=0.0000005 SIGMAINITIAL=0.00005 INTERVALCENTER=0 INTERVALOFFSET=0.5 MEMSIZE=1000 /PRINT CPS NETWORKINFO SUMMARY CLASSIFICATION SOLUTION IMPORTANCE /PLOT NETWORK /STOPPINGRULES ERRORSTEPS= 1 (DATA=AUTO) TRAININGTIMER=ON (MAXTIME=15) MAXEPOCHS=AUTO ERRORCHANGE=1.0E-4 ERRORRATIO=0.001 /MISSING USERMISSING=EXCLUDE .
Resources	Processor Time	00:00:00.61
	Elapsed Time	00:00:00.62

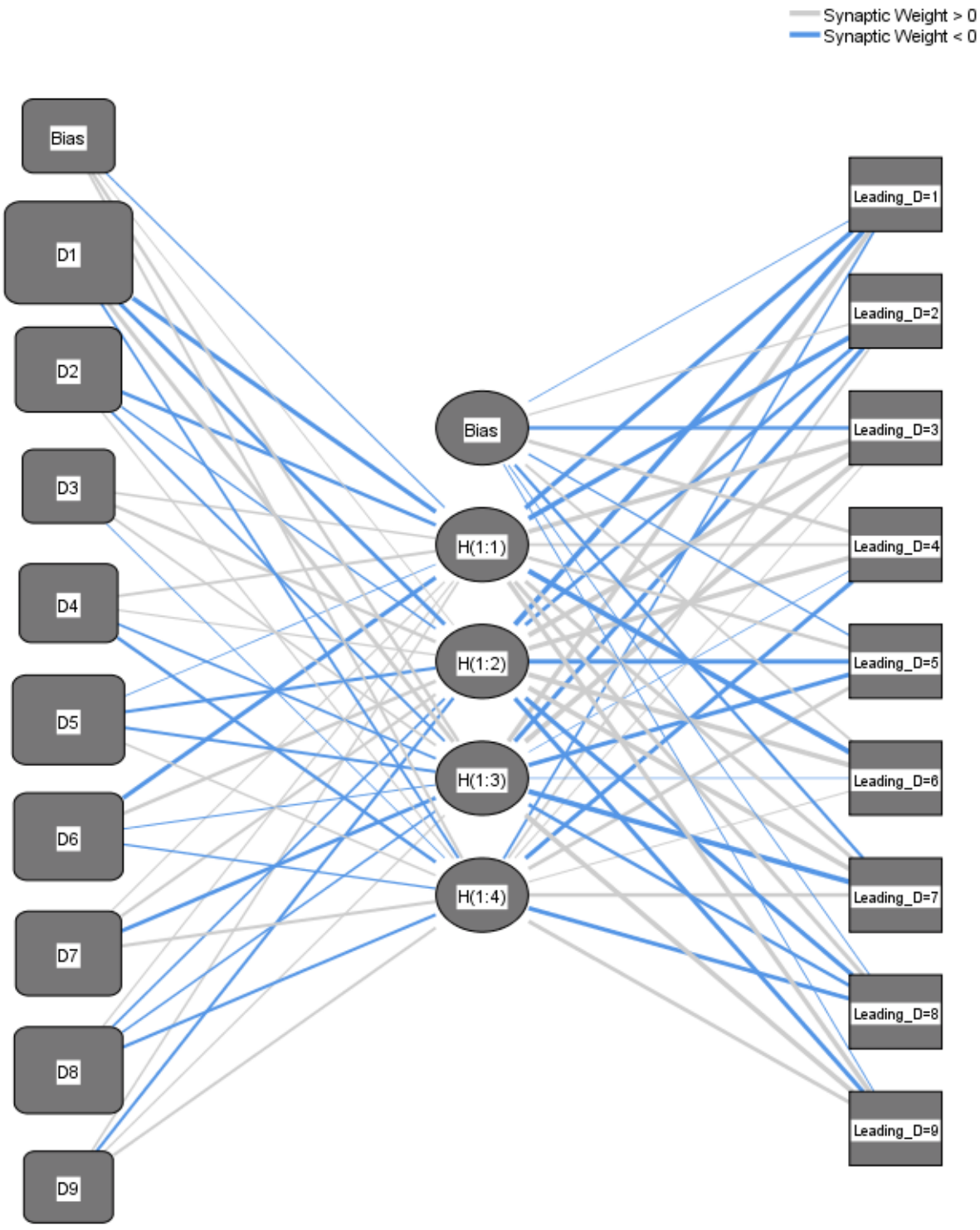
Case Processing Summary

		N	Percent
Sample	Training	80	76.9%
	Testing	24	23.1%
Valid		104	100.0%
Excluded		0	
Total		104	

Network Information

Input Layer	Covariates	1	CONTACT RESTRICTION
		2	SANITATION AND HYGIENE
		3	ISOLATION OF INFECTED
		4	TOTAL ISOLATION
		5	HEALTH CARE
		6	VIRUS DISSEMINATION
		7	LIFESTYLE CHANGES
		8	RIGHTS AND FREEDOMS INFRINGEMENT
		9	BUREAUCRATIC RESPONSE
	Number of Units[a]		9
	Rescaling Method for Covariates		Standardized
Hidden Layer(s)	Number of Hidden Layers		1
	Number of Units in Hidden Layer 1[a]		4
	Activation Function		Hyperbolic tangent
Output Layer	Dependent Variables	1	Leading discourse in meaning
	Number of Units		9
	Activation Function		Softmax
	Error Function		Cross-entropy

a. Excluding the bias unit



Hidden layer activation function: Hyperbolic tangent

Output layer activation function: Softmax

Model Summary

Training	Cross Entropy Error	2.572
	Percent Incorrect Predictions	0.0%
	Stopping Rule Used	1 consecutive step(s) with no decrease in error[a]
	Training Time	0:00:00.03
Testing	Cross Entropy Error	11.303
	Percent Incorrect Predictions	12.5%

Dependent Variable: Leading discourse in meaning

a. Error computations are based on the testing sample.

Parameter Estimates

		Predicted												
		Hidden Layer 1				Output Layer								
Predictor		H(1:1)	H(1:2)	H(1:3)	H(1:4)	[Leading_D =1]	[Leading_D =2]	[Leading_D =3]	[Leading_D =4]	[Leading_D =5]	[Leading_D =6]	[Leading_D =7]	[Leading_D =8]	[Leading_D =9]
Input Layer	(Bias)	-.284	.192	1.144	.817									
	D1	-2.369	-1.627	1.971	-.690									
	D2	-1.325	-.407	-.760	.292									
	D3	.541	1.183	.580	-.058									
	D4	.949	.316	-.659	-1.213									
	D5	-.042	-1.171	-.989	.519									
	D6	-2.234	1.316	-.217	-.371									
	D7	.281	1.003	-1.427	1.105									
	D8	.291	-.585	-.532	-1.093									
	D9	.452	-1.048	.307	.850									
Hidden Layer 1	(Bias)					-.103	.330	-1.320	1.369	-.346	.660	-1.094	-.145	-.147
	H(1:1)					-2.545	-2.940	2.626	.770	1.250	-4.704	1.716	1.740	2.379
	H(1:2)					-3.733	-1.387	3.142	2.652	-2.423	3.434	2.764	-2.352	-2.191
	H(1:3)					2.602	-2.341	3.614	-.003	-2.235	-.008	-4.271	-1.228	2.995
	H(1:4)					-.595	.590	.215	-2.140	1.375	.208	1.399	-2.075	1.583

Classification

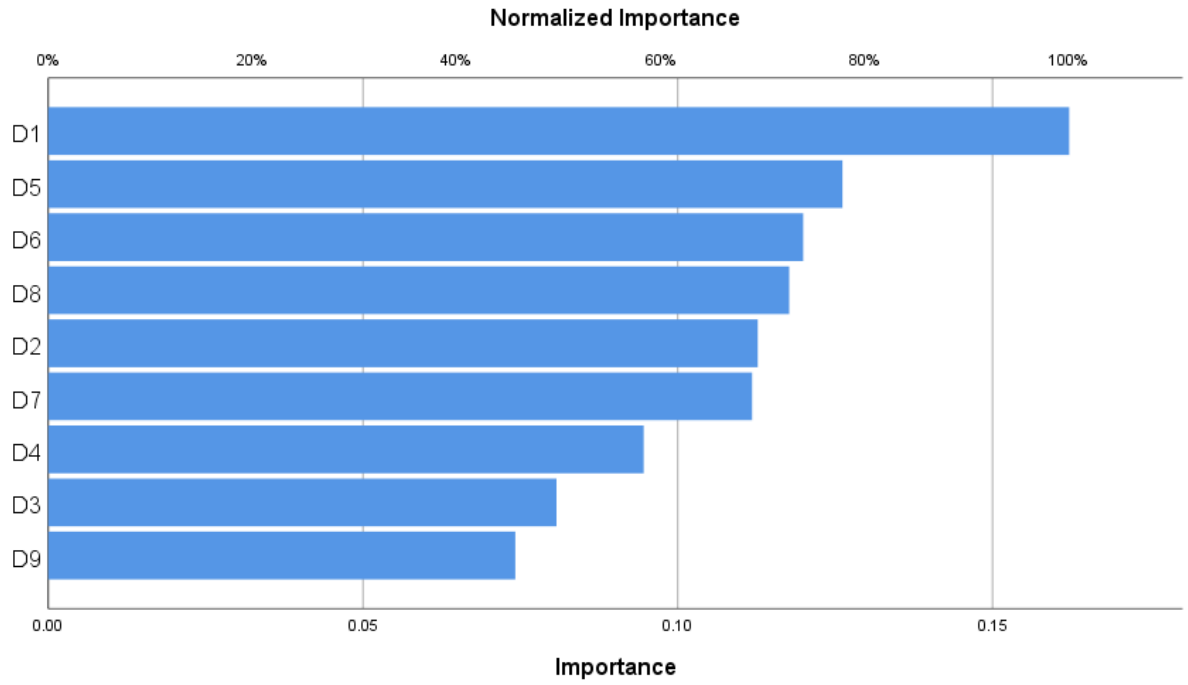
Sample	Observed	Predicted 1	2	3	4	5	6	7	8	9	Percent Correct
Training	1	17	0	0	0	0	0	0	0	0	100.0%
	2	0	4	0	0	0	0	0	0	0	100.0%
	3	0	0	8	0	0	0	0	0	0	100.0%
	4	0	0	0	5	0	0	0	0	0	100.0%
	5	0	0	0	0	3	0	0	0	0	100.0%
	6	0	0	0	0	0	20	0	0	0	100.0%
	7	0	0	0	0	0	0	11	0	0	100.0%
	8	0	0	0	0	0	0	0	2	0	100.0%
	9	0	0	0	0	0	0	0	0	10	100.0%
	Overall Percent	21.3%	5.0%	10.0%	6.3%	3.8%	25.0%	13.8%	2.5%	12.5%	100.0%
Testing	1	3	1	0	0	0	0	0	0	0	75.0%
	2	0	2	0	0	0	1	0	0	0	66.7%
	3	0	0	2	0	0	0	0	0	0	100.0%
	4	0	0	0	2	0	0	0	0	0	100.0%
	5	0	0	0	0	1	0	0	0	0	100.0%
	6	0	0	0	0	0	5	0	0	0	100.0%
	7	0	0	0	0	0	0	2	0	0	100.0%
	8	0	1	0	0	0	0	0	2	0	66.7%
	9	0	0	0	0	0	0	0	0	2	100.0%
	Overall Percent	12.5%	16.7%	8.3%	8.3%	4.2%	25.0%	8.3%	8.3%	8.3%	87.5%

Dependent Variable: Leading discourse in meaning

Independent Variable Importance

	Importance	Normalized Importance
CONTACT RESTRICTION	.162	100.0%
SANITATION AND HYGIENE	.113	69.5%
ISOLATION OF INFECTED	.081	49.8%
TOTAL ISOLATION	.095	58.3%
HEALTH CARE	.126	77.8%

VIRUS DISSEMINATION	.120	74.0%
LIFESTYLE CHANGES	.112	68.9%
RIGHTS AND FREEDOMS INFRINGEMENT	.118	72.6%
BUREAUCRATIC RESPONSE	.074	45.8%




```
*Multilayer Perceptron Network.
MLP Leading_D (MLEVEL=N) WITH D1 D2 D3 D4 D5 D6 D7 D8 D9
 /RESCALE COVARIATE=STANDARDIZED
  /PARTITION  TRAINING=7  TESTING=3  HOLDOUT=0
  /ARCHITECTURE   AUTOMATIC=YES (MINUNITS=1 MAXUNITS=50)
  /CRITERIA TRAINING=BATCH OPTIMIZATION=SCALEDCONJUGATE
LAMBDAINITIAL=0.0000005
    SIGMAINITIAL=0.00005 INTERVALCENTER=0 INTERVALOFFSET=0.5 MEMSIZE=1000
  /PRINT CPS NETWORKINFO SUMMARY CLASSIFICATION SOLUTION IMPORTANCE
  /PLOT NETWORK
  /STOPPINGRULES ERRORSTEPS= 1 (DATA=AUTO) TRAININGTIMER=ON (MAXTIME=15)
MAXEPOCHS=AUTO
    ERRORCHANGE=1.0E-4 ERRORRATIO=0.001
 /MISSING USERMISSING=EXCLUDE .
```

Multilayer Perceptron

Notes

Output Created		10-DEC-2020 15:07:11
Comments		
Input	Data	C:\Users\vitart0\OneDrive\Documents\!MyDocs\!Sience\Quarantine definition survey\SPSS\NN_EN_covid_ordinal_9D.sav
	Active Dataset	DataSet4
	Filter	<none>
	Weight	<none>
	Split File	<none>
	N of Rows in Working Data File	104
Missing Value Handling	Definition of Missing	User- and system-missing values are treated as missing.
	Cases Used	Statistics are based on cases with valid data for all variables used by the procedure.
Weight Handling		not applicable

Syntax		MLP Leading_D (MLEVEL=N) WITH D1 D2 D3 D4 D5 D6 D7 D8 D9 /RESCALE COVARIATE=STANDARDIZ ED /PARTITION TRAINING=7 TESTING=3 HOLDOUT=0 /ARCHITECTURE AUTOMATIC=YES (MINUNITS=1 MAXUNITS=50) /CRITERIA TRAINING=BATCH OPTIMIZATION=SCALEDC ONJUGATE LAMBDAINITIAL=0.0000005 SIGMAINITIAL=0.00005 INTERVALCENTER=0 INTERVALOFFSET=0.5 MEMSIZE=1000 /PRINT CPS NETWORKINFO SUMMARY CLASSIFICATION SOLUTION IMPORTANCE /PLOT NETWORK /STOPPINGRULES ERRORSTEPS= 1 (DATA=AUTO) TRAININGTIMER=ON (MAXTIME=15) MAXEPOCHS=AUTO ERRORCHANGE=1.0E-4 ERRORRATIO=0.001 /MISSING USERMISSING=EXCLUDE .
Resources	Processor Time	00:00:00.61
	Elapsed Time	00:00:00.58

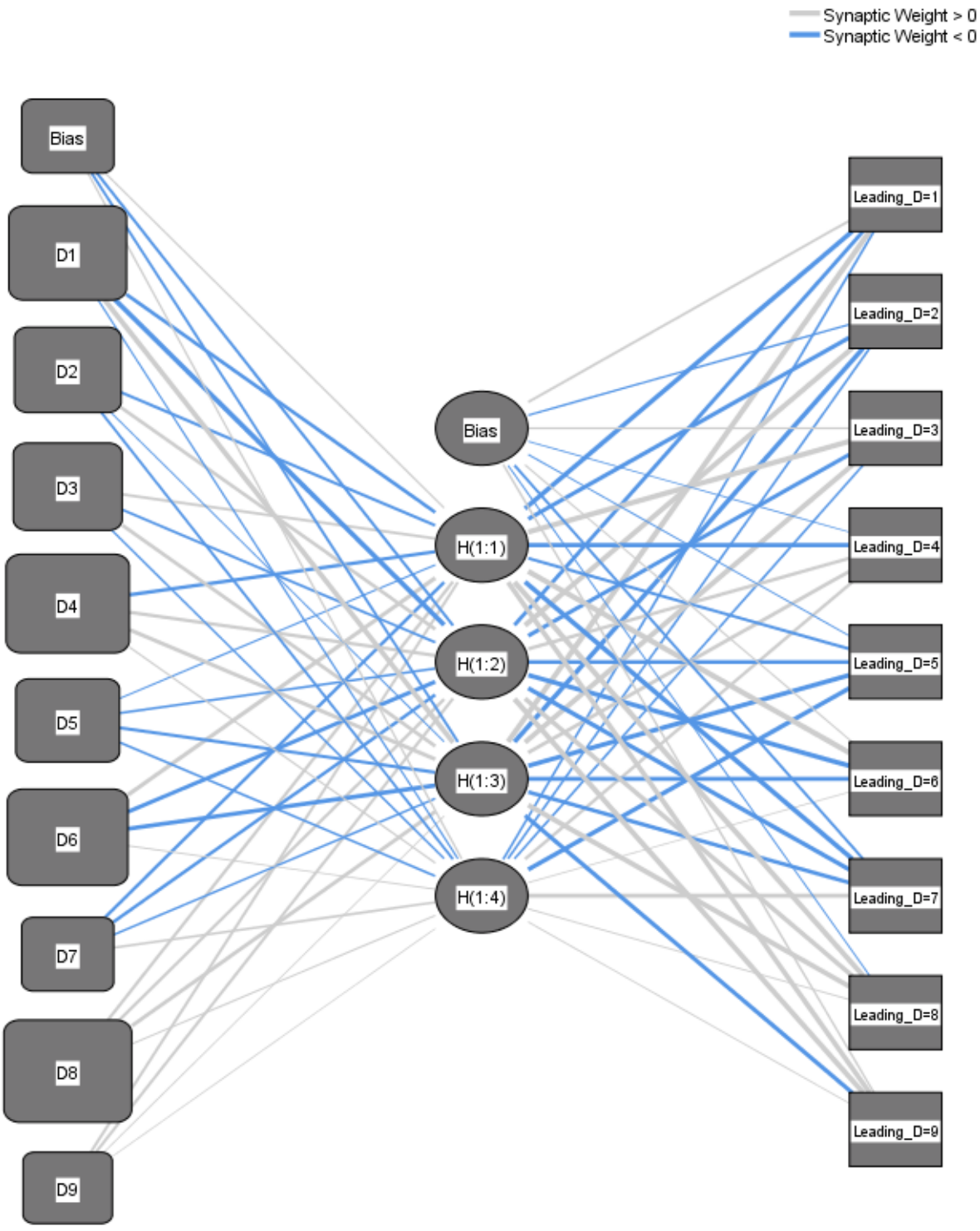
Case Processing Summary

		N	Percent
Sample	Training	75	72.1%
	Testing	29	27.9%
Valid		104	100.0%
Excluded		0	
Total		104	

Network Information

Input Layer	Covariates	1	CONTACT RESTRICTION
		2	SANITATION AND HYGIENE
		3	ISOLATION OF INFECTED
		4	TOTAL ISOLATION
		5	HEALTH CARE
		6	VIRUS DISSEMINATION
		7	LIFESTYLE CHANGES
		8	RIGHTS AND FREEDOMS INFRINGEMENT
		9	BUREAUCRATIC RESPONSE
	Number of Units[a]		9
	Rescaling Method for Covariates		Standardized
Hidden Layer(s)	Number of Hidden Layers		1
	Number of Units in Hidden Layer 1[a]		4
	Activation Function		Hyperbolic tangent
Output Layer	Dependent Variables	1	Leading discourse in meaning
	Number of Units		9
	Activation Function		Softmax
	Error Function		Cross-entropy

a. Excluding the bias unit



Hidden layer activation function: Hyperbolic tangent

Output layer activation function: Softmax

Model Summary

Training	Cross Entropy Error	3.583
	Percent Incorrect Predictions	1.3%
	Stopping Rule Used	1 consecutive step(s) with no decrease in error[a]
	Training Time	0:00:00.01
Testing	Cross Entropy Error	13.274
	Percent Incorrect Predictions	13.8%

Dependent Variable: Leading discourse in meaning

a. Error computations are based on the testing sample.

Parameter Estimates

		Predicted												
		Hidden Layer 1				Output Layer								
Predictor		H(1:1)	H(1:2)	H(1:3)	H(1:4)	[Leading_D =1]	[Leading_D =2]	[Leading_D =3]	[Leading_D =4]	[Leading_D =5]	[Leading_D =6]	[Leading_D =7]	[Leading_D =8]	[Leading_D =9]
Input Layer	(Bias)	.355	-1.097	-.914	.384									
	D1	-1.667	-2.449	2.483	-.370									
	D2	-1.138	1.485	-.132	-.859									
	D3	.966	-.817	1.700	-.473									
	D4	-1.558	1.431	1.918	.332									
	D5	-.320	-.759	-1.315	-.749									
	D6	1.992	-1.958	-2.079	.065									
	D7	-1.321	-1.339	-.530	.772									
	D8	1.267	1.248	1.764	.297									
	D9	1.078	1.113	.018	.001									
Hidden Layer 1	(Bias)					.796	-.417	.404	-.025	-.238	.318	-.954	-.292	.437
	H(1:1)					-2.322	-2.007	2.715	-2.184	-1.237	3.226	-2.418	2.965	2.466
	H(1:2)					-1.798	2.611	-1.939	1.451	-1.744	-2.382	-2.187	2.293	2.697
	H(1:3)					3.205	-2.298	2.565	1.717	-2.324	-2.182	-1.929	2.535	-2.019
	H(1:4)					-.758	-.664	-.644	1.296	-2.205	.011	2.013	.126	.031

Classification

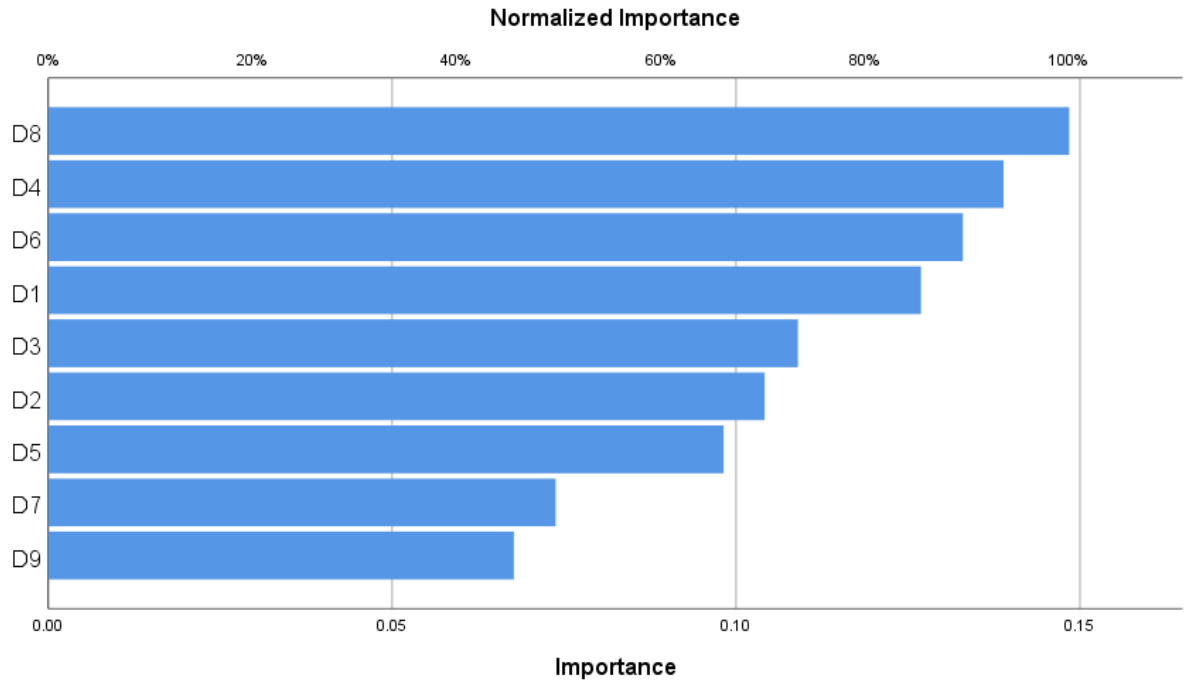
Sample	Observed	Predicted 1	2	3	4	5	6	7	8	9	Percent Correct
Training	1	16	0	0	0	0	0	0	0	0	100.0%
	2	0	5	0	0	0	0	0	0	0	100.0%
	3	0	0	5	0	0	0	0	0	0	100.0%
	4	0	0	0	5	0	0	0	0	0	100.0%
	5	0	0	0	0	2	0	0	0	0	100.0%
	6	0	0	0	0	0	17	0	0	1	94.4%
	7	0	0	0	0	0	0	9	0	0	100.0%
	8	0	0	0	0	0	0	0	5	0	100.0%
	9	0	0	0	0	0	0	0	0	10	100.0%
	Overall Percent	21.3%	6.7%	6.7%	6.7%	2.7%	22.7%	12.0%	6.7%	14.7%	98.7%
Testing	1	5	0	0	0	0	0	0	0	0	100.0%
	2	1	1	0	0	0	0	0	0	0	50.0%
	3	0	0	4	0	0	0	0	1	0	80.0%
	4	0	0	0	2	0	0	0	0	0	100.0%
	5	0	0	0	0	2	0	0	0	0	100.0%
	6	0	0	0	0	1	6	0	0	0	85.7%
	7	0	0	0	1	0	0	3	0	0	75.0%
	8	0	0	0	0	0	0	0	0	0	0.0%
	9	0	0	0	0	0	0	0	0	2	100.0%
	Overall Percent	20.7%	3.4%	13.8%	10.3%	10.3%	20.7%	10.3%	3.4%	6.9%	86.2%

Dependent Variable: Leading discourse in meaning

Independent Variable Importance

	Importance	Normalized Importance
CONTACT RESTRICTION	.127	85.5%
SANITATION AND HYGIENE	.104	70.2%
ISOLATION OF INFECTED	.109	73.4%
TOTAL ISOLATION	.139	93.6%
HEALTH CARE	.098	66.2%

VIRUS DISSEMINATION	.133	89.6%
LIFESTYLE CHANGES	.074	49.7%
RIGHTS AND FREEDOMS INFRINGEMENT	.148	100.0%
BUREAUCRATIC RESPONSE	.068	45.6%




```
*Multilayer Perceptron Network.
MLP Leading_D (MLEVEL=N) WITH D1 D2 D3 D4 D5 D6 D7 D8 D9
 /RESCALE COVARIATE=STANDARDIZED
  /PARTITION  TRAINING=7  TESTING=3  HOLDOUT=0
  /ARCHITECTURE   AUTOMATIC=YES (MINUNITS=1 MAXUNITS=50)
  /CRITERIA TRAINING=BATCH OPTIMIZATION=SCALEDCONJUGATE
LAMBDAINITIAL=0.0000005
    SIGMAINITIAL=0.00005 INTERVALCENTER=0 INTERVALOFFSET=0.5 MEMSIZE=1000
  /PRINT CPS NETWORKINFO SUMMARY CLASSIFICATION SOLUTION IMPORTANCE
  /PLOT NETWORK
  /STOPPINGRULES ERRORSTEPS= 1 (DATA=AUTO) TRAININGTIMER=ON (MAXTIME=15)
MAXEPOCHS=AUTO
    ERRORCHANGE=1.0E-4 ERRORRATIO=0.001
 /MISSING USERMISSING=EXCLUDE .
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Multilayer Perceptron

Notes

Output Created		10-DEC-2020 15:07:24
Comments		
Input	Data	C:\Users\vitart0\OneDrive\Documents\!MyDocs\!Sience\Quarantine definition survey\SPSS\NN_EN_covid_ordinal_9D.sav
	Active Dataset	DataSet4
	Filter	<none>
	Weight	<none>
	Split File	<none>
	N of Rows in Working Data File	104
Missing Value Handling	Definition of Missing	User- and system-missing values are treated as missing.
	Cases Used	Statistics are based on cases with valid data for all variables used by the procedure.
Weight Handling		not applicable

Syntax		MLP Leading_D (MLEVEL=N) WITH D1 D2 D3 D4 D5 D6 D7 D8 D9 /RESCALE COVARIATE=STANDARDIZ ED /PARTITION TRAINING=7 TESTING=3 HOLDOUT=0 /ARCHITECTURE AUTOMATIC=YES (MINUNITS=1 MAXUNITS=50) /CRITERIA TRAINING=BATCH OPTIMIZATION=SCALEDC ONJUGATE LAMBDAINITIAL=0.0000005 SIGMAINITIAL=0.00005 INTERVALCENTER=0 INTERVALOFFSET=0.5 MEMSIZE=1000 /PRINT CPS NETWORKINFO SUMMARY CLASSIFICATION SOLUTION IMPORTANCE /PLOT NETWORK /STOPPINGRULES ERRORSTEPS= 1 (DATA=AUTO) TRAININGTIMER=ON (MAXTIME=15) MAXEPOCHS=AUTO ERRORCHANGE=1.0E-4 ERRORRATIO=0.001 /MISSING USERMISSING=EXCLUDE .
Resources	Processor Time	00:00:00.56
	Elapsed Time	00:00:00.56

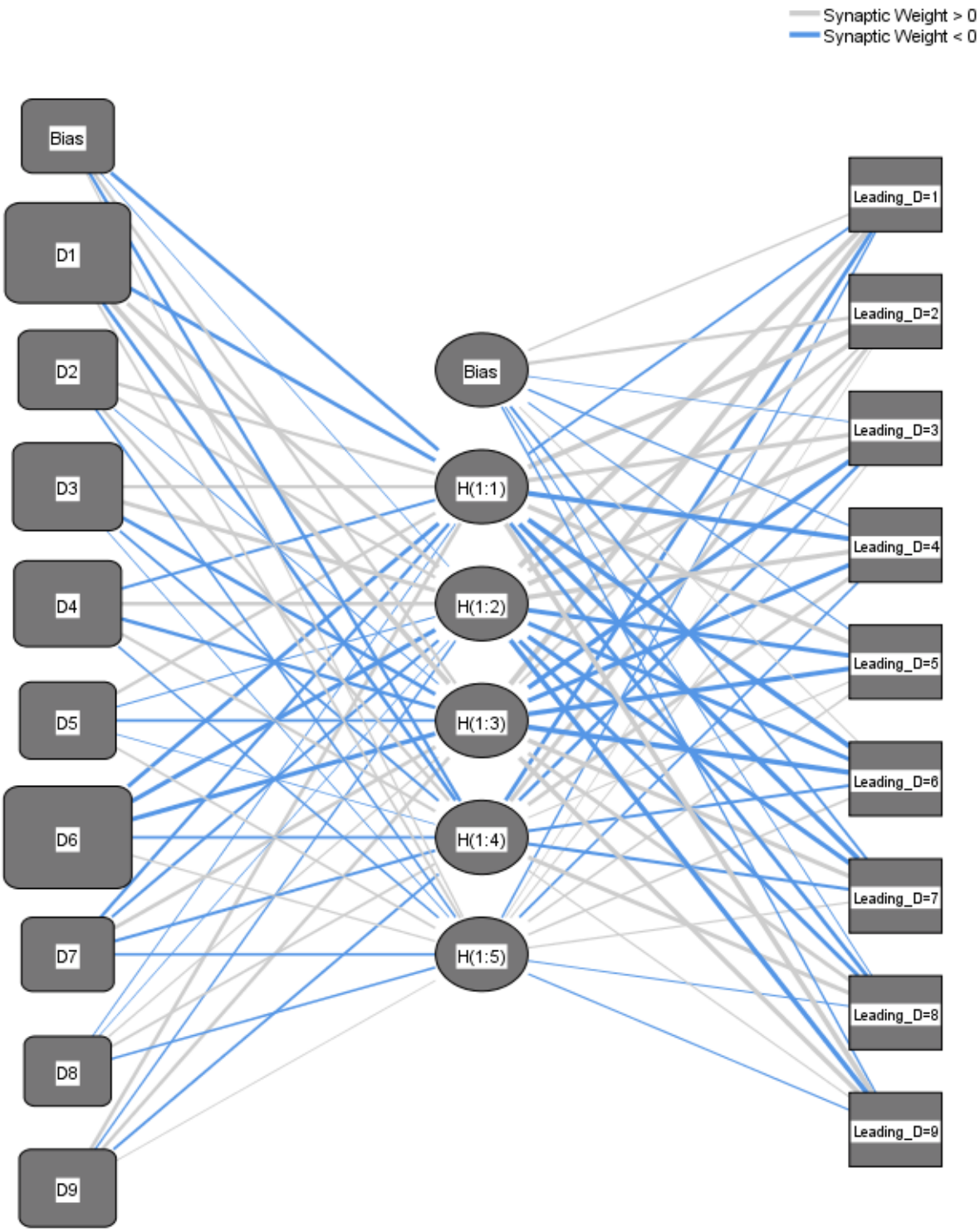
Case Processing Summary

		N	Percent
Sample	Training	66	63.5%
	Testing	38	36.5%
Valid		104	100.0%
Excluded		0	
Total		104	

Network Information

Input Layer	Covariates	1	CONTACT RESTRICTION
		2	SANITATION AND HYGIENE
		3	ISOLATION OF INFECTED
		4	TOTAL ISOLATION
		5	HEALTH CARE
		6	VIRUS DISSEMINATION
		7	LIFESTYLE CHANGES
		8	RIGHTS AND FREEDOMS INFRINGEMENT
		9	BUREAUCRATIC RESPONSE
	Number of Units[a]		9
	Rescaling Method for Covariates		Standardized
Hidden Layer(s)	Number of Hidden Layers		1
	Number of Units in Hidden Layer 1[a]		5
	Activation Function		Hyperbolic tangent
Output Layer	Dependent Variables	1	Leading discourse in meaning
	Number of Units		9
	Activation Function		Softmax
	Error Function		Cross-entropy

a. Excluding the bias unit



Hidden layer activation function: Hyperbolic tangent

Output layer activation function: Softmax

Model Summary

Training	Cross Entropy Error	2.654
	Percent Incorrect Predictions	0.0%
	Stopping Rule Used	1 consecutive step(s) with no decrease in error[a]
	Training Time	0:00:00.02
Testing	Cross Entropy Error	8.345
	Percent Incorrect Predictions	7.9%

Dependent Variable: Leading discourse in meaning

a. Error computations are based on the testing sample.

Parameter Estimates

		Predicted													
		Hidden Layer 1					Output Layer								
Predictor		H(1:1)	H(1:2)	H(1:3)	H(1:4)	H(1:5)	[Leading_D=1]	[Leading_D=2]	[Leading_D=3]	[Leading_D=4]	[Leading_D=5]	[Leading_D=6]	[Leading_D=7]	[Leading_D=8]	[Leading_D=9]
Input Layer	(Bias)	-1.183	-.019	.811	-.849	.263									
	D1	-1.445	1.586	3.000	-1.107	.462									
	D2	.988	.784	-.136	.849	-.405									
	D3	.935	1.723	-1.219	-.491	-.100									
	D4	-.561	1.235	-1.149	.728	-.363									
	D5	.829	-.167	-.529	-.024	.427									
	D6	-1.489	-1.845	-2.077	-.542	.281									
	D7	-.848	-.629	1.194	-.639	-.445									
	D8	-.127	-.007	.230	.464	-.417									
	D9	1.156	-.294	1.045	-.489	.107									
Hidden Layer 1	(Bias)						.351	.913	-.057	-.288	-.186	.163	-.500	-.151	-.346
	H(1:1)						-.478	3.064	1.805	-2.422	2.132	-2.432	-2.347	-1.239	2.897
	H(1:2)						3.713	1.817	2.229	2.299	-2.100	-1.736	-1.996	-1.531	-2.346
	H(1:3)						3.429	.496	-2.239	-1.948	-2.302	-3.082	1.939	1.250	2.253
	H(1:4)						-1.268	1.555	-1.038	1.223	.175	-.576	-.847	1.587	.193
	H(1:5)						-.312	.032	.152	-.423	.378	.400	.226	-.160	-.196

Classification

Sample	Observed	Predicted

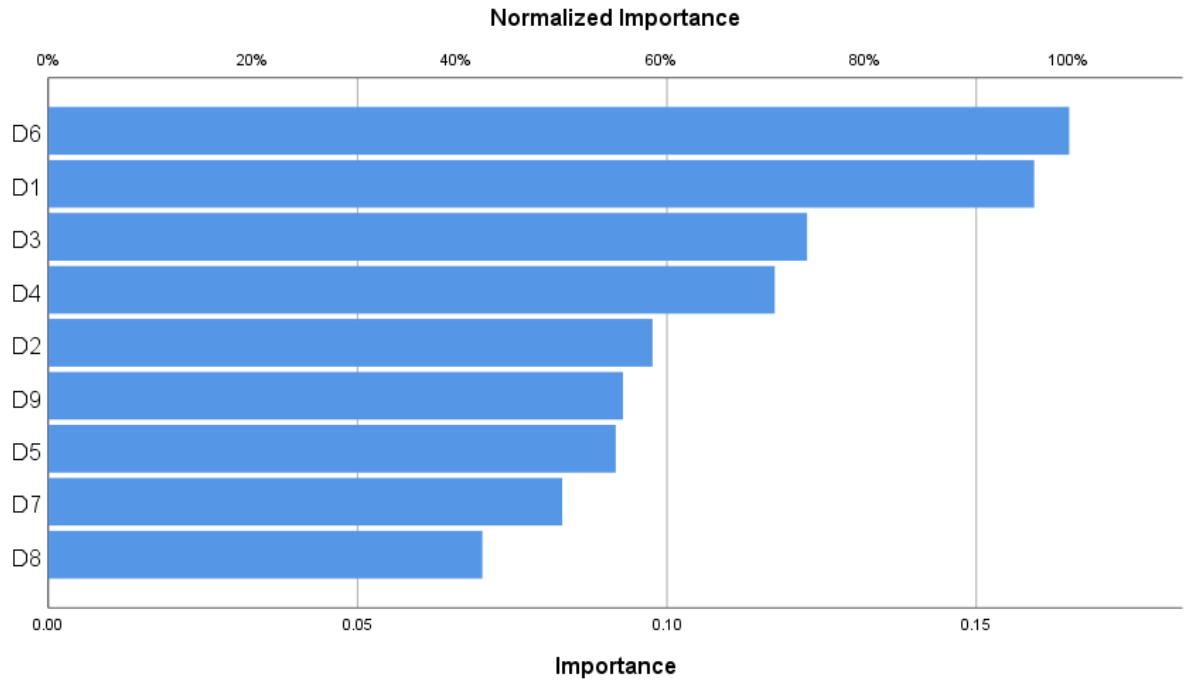
		1	2	3	4	5	6	7	8	9	Percent Correct
Training	1	17	0	0	0	0	0	0	0	0	100.0%
	2	0	6	0	0	0	0	0	0	0	100.0%
	3	0	0	6	0	0	0	0	0	0	100.0%
	4	0	0	0	5	0	0	0	0	0	100.0%
	5	0	0	0	0	2	0	0	0	0	100.0%
	6	0	0	0	0	0	14	0	0	0	100.0%
	7	0	0	0	0	0	0	8	0	0	100.0%
	8	0	0	0	0	0	0	0	1	0	100.0%
	9	0	0	0	0	0	0	0	0	7	100.0%
	Overall Percent	25.8%	9.1%	9.1%	7.6%	3.0%	21.2%	12.1%	1.5%	10.6%	100.0%
Testing	1	4	0	0	0	0	0	0	0	0	100.0%
	2	0	1	0	0	0	0	0	0	0	100.0%
	3	0	0	4	0	0	0	0	0	0	100.0%
	4	0	0	0	2	0	0	0	0	0	100.0%
	5	0	1	0	0	1	0	0	0	0	50.0%
	6	0	0	0	0	0	11	0	0	0	100.0%
	7	0	0	0	0	0	0	5	0	0	100.0%
	8	0	0	0	0	0	2	0	2	0	50.0%
	9	0	0	0	0	0	0	0	0	5	100.0%
	Overall Percent	10.5%	5.3%	10.5%	5.3%	2.6%	34.2%	13.2%	5.3%	13.2%	92.1%

Dependent Variable: Leading discourse in meaning

Independent Variable Importance

	Importance	Normalized Importance
CONTACT RESTRICTION	.159	96.6%
SANITATION AND HYGIENE	.098	59.2%
ISOLATION OF INFECTED	.123	74.3%
TOTAL ISOLATION	.117	71.2%
HEALTH CARE	.092	55.6%
VIRUS DISSEMINATION	.165	100.0%
LIFESTYLE CHANGES	.083	50.3%
RIGHTS AND FREEDOMS INFRINGEMENT	.070	42.5%

BUREAUCRATIC RESPONSE	.093	56.3%




```
*Multilayer Perceptron Network.
MLP Leading_D (MLEVEL=N) WITH D1 D2 D3 D4 D5 D6 D7 D8 D9
 /RESCALE COVARIATE=STANDARDIZED
  /PARTITION  TRAINING=7  TESTING=3  HOLDOUT=0
  /ARCHITECTURE   AUTOMATIC=YES (MINUNITS=1 MAXUNITS=50)
  /CRITERIA TRAINING=BATCH OPTIMIZATION=SCALEDCONJUGATE
LAMBDAINITIAL=0.0000005
    SIGMAINITIAL=0.00005 INTERVALCENTER=0 INTERVALOFFSET=0.5 MEMSIZE=1000
  /PRINT CPS NETWORKINFO SUMMARY CLASSIFICATION SOLUTION IMPORTANCE
  /PLOT NETWORK
  /STOPPINGRULES ERRORSTEPS= 1 (DATA=AUTO) TRAININGTIMER=ON (MAXTIME=15)
MAXEPOCHS=AUTO
    ERRORCHANGE=1.0E-4 ERRORRATIO=0.001
 /MISSING USERMISSING=EXCLUDE .
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Multilayer Perceptron

Notes

Output Created	10-DEC-2020 15:07:33

Comments		
Input	Data	C:\Users\vitart0\OneDrive\Documents\!MyDocs\!Sience\Quarantine definition survey\SPSS\NN_EN_covid_ordinal_9D.sav
	Active Dataset	DataSet4
	Filter	<none>
	Weight	<none>
	Split File	<none>
	N of Rows in Working Data File	104
Missing Value Handling	Definition of Missing	User- and system-missing values are treated as missing.
	Cases Used	Statistics are based on cases with valid data for all variables used by the procedure.
Weight Handling		not applicable

Syntax		MLP Leading_D (MLEVEL=N) WITH D1 D2 D3 D4 D5 D6 D7 D8 D9 /RESCALE COVARIATE=STANDARDIZ ED /PARTITION TRAINING=7 TESTING=3 HOLDOUT=0 /ARCHITECTURE AUTOMATIC=YES (MINUNITS=1 MAXUNITS=50) /CRITERIA TRAINING=BATCH OPTIMIZATION=SCALEDC ONJUGATE LAMBDAINITIAL=0.0000005 SIGMAINITIAL=0.00005 INTERVALCENTER=0 INTERVALOFFSET=0.5 MEMSIZE=1000 /PRINT CPS NETWORKINFO SUMMARY CLASSIFICATION SOLUTION IMPORTANCE /PLOT NETWORK /STOPPINGRULES ERRORSTEPS= 1 (DATA=AUTO) TRAININGTIMER=ON (MAXTIME=15) MAXEPOCHS=AUTO ERRORCHANGE=1.0E-4 ERRORRATIO=0.001 /MISSING USERMISSING=EXCLUDE .
Resources	Processor Time	00:00:00.53
	Elapsed Time	00:00:00.54

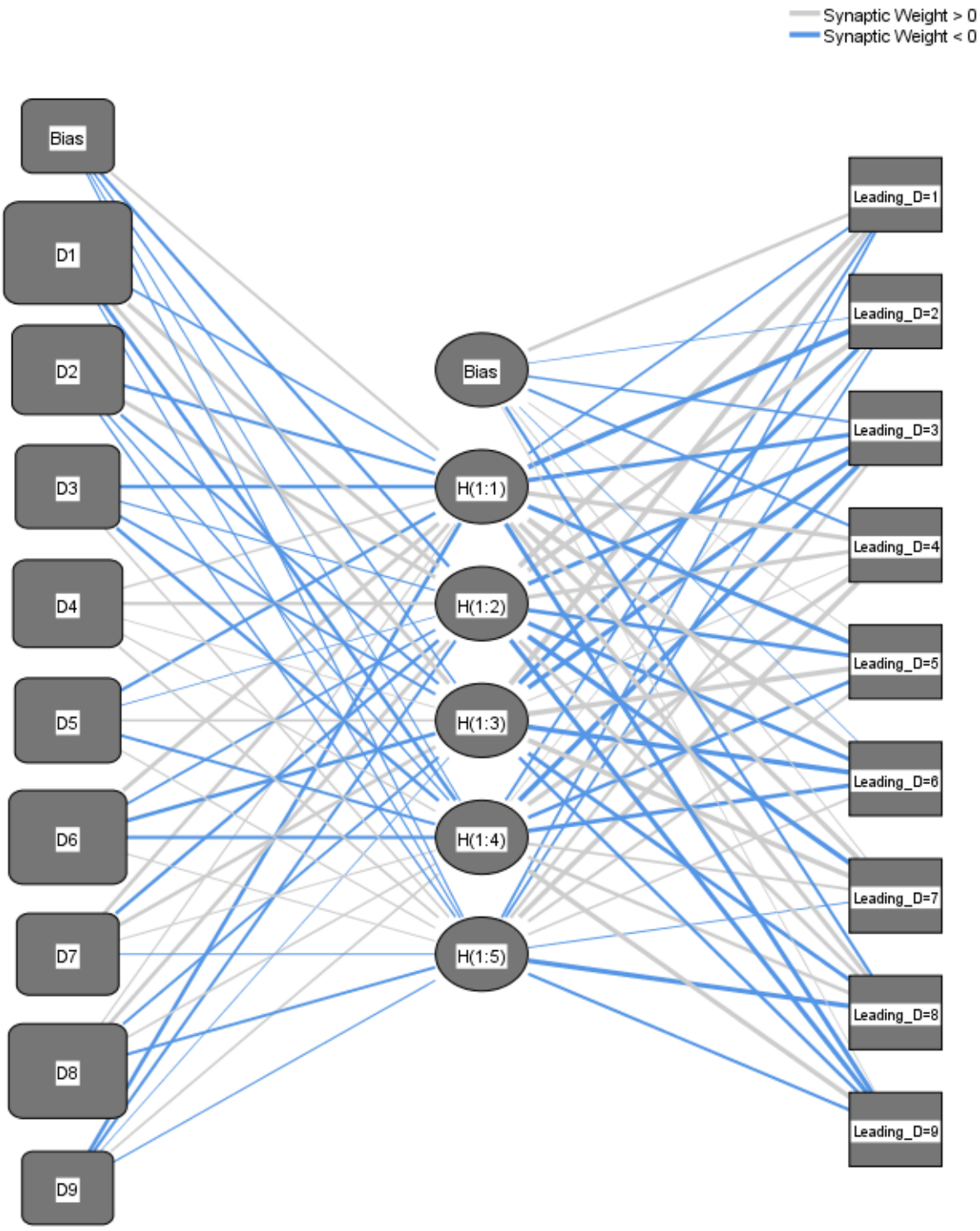
Case Processing Summary

		N	Percent
Sample	Training	66	63.5%
	Testing	38	36.5%
Valid		104	100.0%
Excluded		0	
Total		104	

Network Information

Input Layer	Covariates	1	CONTACT RESTRICTION
		2	SANITATION AND HYGIENE
		3	ISOLATION OF INFECTED
		4	TOTAL ISOLATION
		5	HEALTH CARE
		6	VIRUS DISSEMINATION
		7	LIFESTYLE CHANGES
		8	RIGHTS AND FREEDOMS INFRINGEMENT
		9	BUREAUCRATIC RESPONSE
	Number of Units[a]		9
	Rescaling Method for Covariates		Standardized
Hidden Layer(s)	Number of Hidden Layers		1
	Number of Units in Hidden Layer 1[a]		5
	Activation Function		Hyperbolic tangent
Output Layer	Dependent Variables	1	Leading discourse in meaning
	Number of Units		9
	Activation Function		Softmax
	Error Function		Cross-entropy

a. Excluding the bias unit



Hidden layer activation function: Hyperbolic tangent

Output layer activation function: Softmax

Model Summary

Training	Cross Entropy Error	.131
	Percent Incorrect Predictions	0.0%
	Stopping Rule Used	Training error ratio criterion (.001) achieved
	Training Time	0:00:00.02
Testing	Cross Entropy Error	.654
	Percent Incorrect Predictions	0.0%

Dependent Variable: Leading discourse in meaning

Parameter Estimates

		Predicted													
		Hidden Layer 1					Output Layer								
Predictor		H(1:1)	H(1:2)	H(1:3)	H(1:4)	H(1:5)	[Leading_D=1]	[Leading_D=2]	[Leading_D=3]	[Leading_D=4]	[Leading_D=5]	[Leading_D=6]	[Leading_D=7]	[Leading_D=8]	[Leading_D=9]
Input Layer	(Bias)	.871	-1.013	-.566	-.222	-.487									
	D1	-.746	2.270	2.033	-1.650	-.375									
	D2	-1.111	2.183	-.885	-.527	-.525									
	D3	-1.769	-.441	-.868	-1.533	.572									
	D4	.642	1.532	.099	.517	.750									
	D5	-1.142	-.074	.728	-.884	.502									
	D6	2.135	-.775	-1.689	-1.382	.310									
	D7	1.594	-1.314	1.557	.248	-.086									
	D8	.485	1.731	-.833	.605	-.881									
	D9	-1.672	-.888	-.036	.730	-.356									
Hidden Layer 1	(Bias)						1.558	-.064	-.725	-.851	.116	-.022	.157	-.930	.090
	H(1:1)						-.749	-3.921	-2.403	2.719	-2.590	4.650	3.037	2.364	-2.538
	H(1:2)						4.072	3.888	-2.330	2.206	-2.119	-2.234	-2.914	1.913	-2.676
	H(1:3)						5.053	-2.572	-2.791	.237	3.757	-3.578	3.596	-2.021	-1.218
	H(1:4)						-.814	.077	-3.029	2.490	-1.629	-2.214	.825	1.545	2.769
	H(1:5)						-.754	-.733	1.057	3.040	.901	.702	-.123	-2.979	-.929

Classification

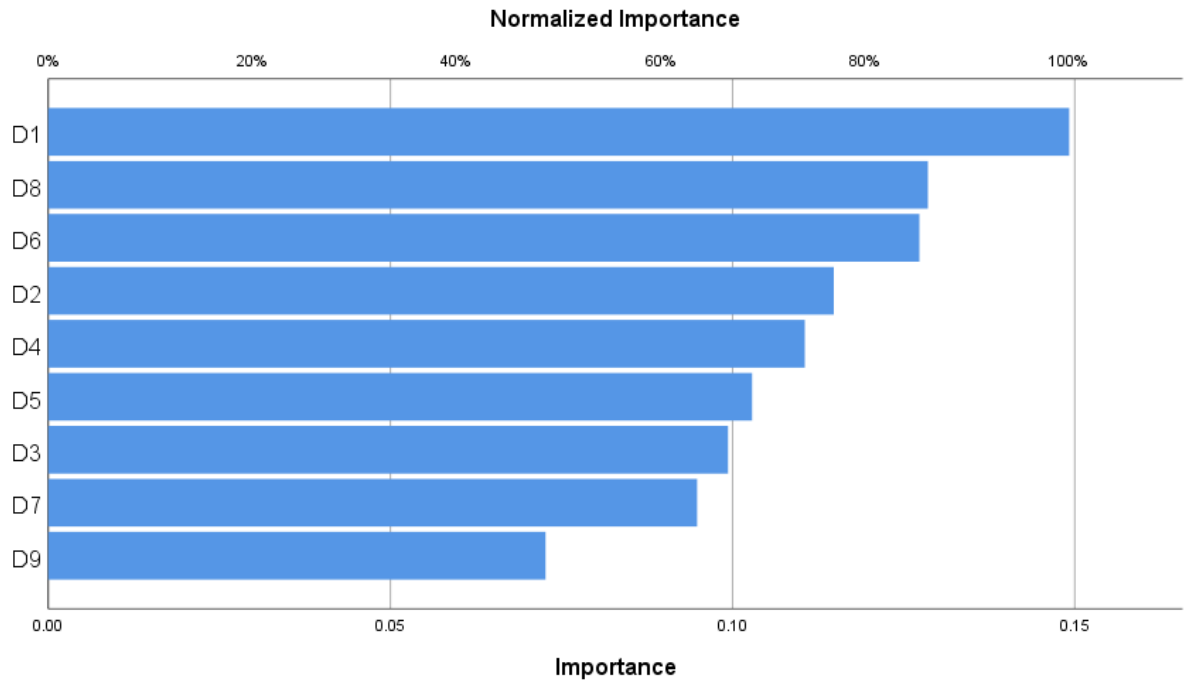
		Predicted									
Sample	Observed	1	2	3	4	5	6	7	8	9	Percent Correct

Training	1	12	0	0	0	0	0	0	0	0	100.0%
	2	0	5	0	0	0	0	0	0	0	100.0%
	3	0	0	7	0	0	0	0	0	0	100.0%
	4	0	0	0	3	0	0	0	0	0	100.0%
	5	0	0	0	0	3	0	0	0	0	100.0%
	6	0	0	0	0	0	13	0	0	0	100.0%
	7	0	0	0	0	0	0	12	0	0	100.0%
	8	0	0	0	0	0	0	0	4	0	100.0%
	9	0	0	0	0	0	0	0	0	7	100.0%
	Overall Percent	18.2%	7.6%	10.6%	4.5%	4.5%	19.7%	18.2%	6.1%	10.6%	100.0%
Testing	1	9	0	0	0	0	0	0	0	0	100.0%
	2	0	2	0	0	0	0	0	0	0	100.0%
	3	0	0	3	0	0	0	0	0	0	100.0%
	4	0	0	0	4	0	0	0	0	0	100.0%
	5	0	0	0	0	1	0	0	0	0	100.0%
	6	0	0	0	0	0	12	0	0	0	100.0%
	7	0	0	0	0	0	0	1	0	0	100.0%
	8	0	0	0	0	0	0	0	1	0	100.0%
	9	0	0	0	0	0	0	0	0	5	100.0%
	Overall Percent	23.7%	5.3%	7.9%	10.5%	2.6%	31.6%	2.6%	2.6%	13.2%	100.0%

Dependent Variable: Leading discourse in meaning

Independent Variable Importance

	Importance	Normalized Importance
CONTACT RESTRICTION	.149	100.0%
SANITATION AND HYGIENE	.115	76.9%
ISOLATION OF INFECTED	.099	66.6%
TOTAL ISOLATION	.111	74.1%
HEALTH CARE	.103	69.0%
VIRUS DISSEMINATION	.127	85.3%
LIFESTYLE CHANGES	.095	63.6%
RIGHTS AND FREEDOMS INFRINGEMENT	.129	86.2%
BUREAUCRATIC RESPONSE	.073	48.7%

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*Multilayer Perceptron Network.
MLP Leading_D (MLEVEL=N) WITH D1 D2 D3 D4 D5 D6 D7 D8 D9
 /RESCALE COVARIATE=STANDARDIZED
  /PARTITION  TRAINING=7  TESTING=3  HOLDOUT=0
  /ARCHITECTURE   AUTOMATIC=YES (MINUNITS=1 MAXUNITS=50)
  /CRITERIA TRAINING=BATCH OPTIMIZATION=SCALEDCONJUGATE
LAMBDAINITIAL=0.0000005
    SIGMAINITIAL=0.00005 INTERVALCENTER=0 INTERVALOFFSET=0.5 MEMSIZE=1000
  /PRINT CPS NETWORKINFO SUMMARY CLASSIFICATION SOLUTION IMPORTANCE
  /PLOT NETWORK
  /STOPPINGRULES ERRORSTEPS= 1 (DATA=AUTO) TRAININGTIMER=ON (MAXTIME=15)
MAXEPOCHS=AUTO
    ERRORCHANGE=1.0E-4 ERRORRATIO=0.001
 /MISSING USERMISSING=EXCLUDE .
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Multilayer Perceptron

Notes

Output Created	10-DEC-2020 15:07:43
Comments	

Input	Data	C:\Users\vitart0\OneDrive\Documents\!MyDocs\!Sience\Quarantine definition survey\SPSS\NN_EN_covid_ordinal_9D.sav
	Active Dataset	DataSet4
	Filter	<none>
	Weight	<none>
	Split File	<none>
	N of Rows in Working Data File	104
Missing Value Handling	Definition of Missing	User- and system-missing values are treated as missing.
	Cases Used	Statistics are based on cases with valid data for all variables used by the procedure.
Weight Handling		not applicable

Syntax		MLP Leading_D (MLEVEL=N) WITH D1 D2 D3 D4 D5 D6 D7 D8 D9 /RESCALE COVARIATE=STANDARDIZ ED /PARTITION TRAINING=7 TESTING=3 HOLDOUT=0 /ARCHITECTURE AUTOMATIC=YES (MINUNITS=1 MAXUNITS=50) /CRITERIA TRAINING=BATCH OPTIMIZATION=SCALEDC ONJUGATE LAMBDAINITIAL=0.0000005 SIGMAINITIAL=0.00005 INTERVALCENTER=0 INTERVALOFFSET=0.5 MEMSIZE=1000 /PRINT CPS NETWORKINFO SUMMARY CLASSIFICATION SOLUTION IMPORTANCE /PLOT NETWORK /STOPPINGRULES ERRORSTEPS= 1 (DATA=AUTO) TRAININGTIMER=ON (MAXTIME=15) MAXEPOCHS=AUTO ERRORCHANGE=1.0E-4 ERRORRATIO=0.001 /MISSING USERMISSING=EXCLUDE .
Resources	Processor Time	00:00:00.59
	Elapsed Time	00:00:00.53

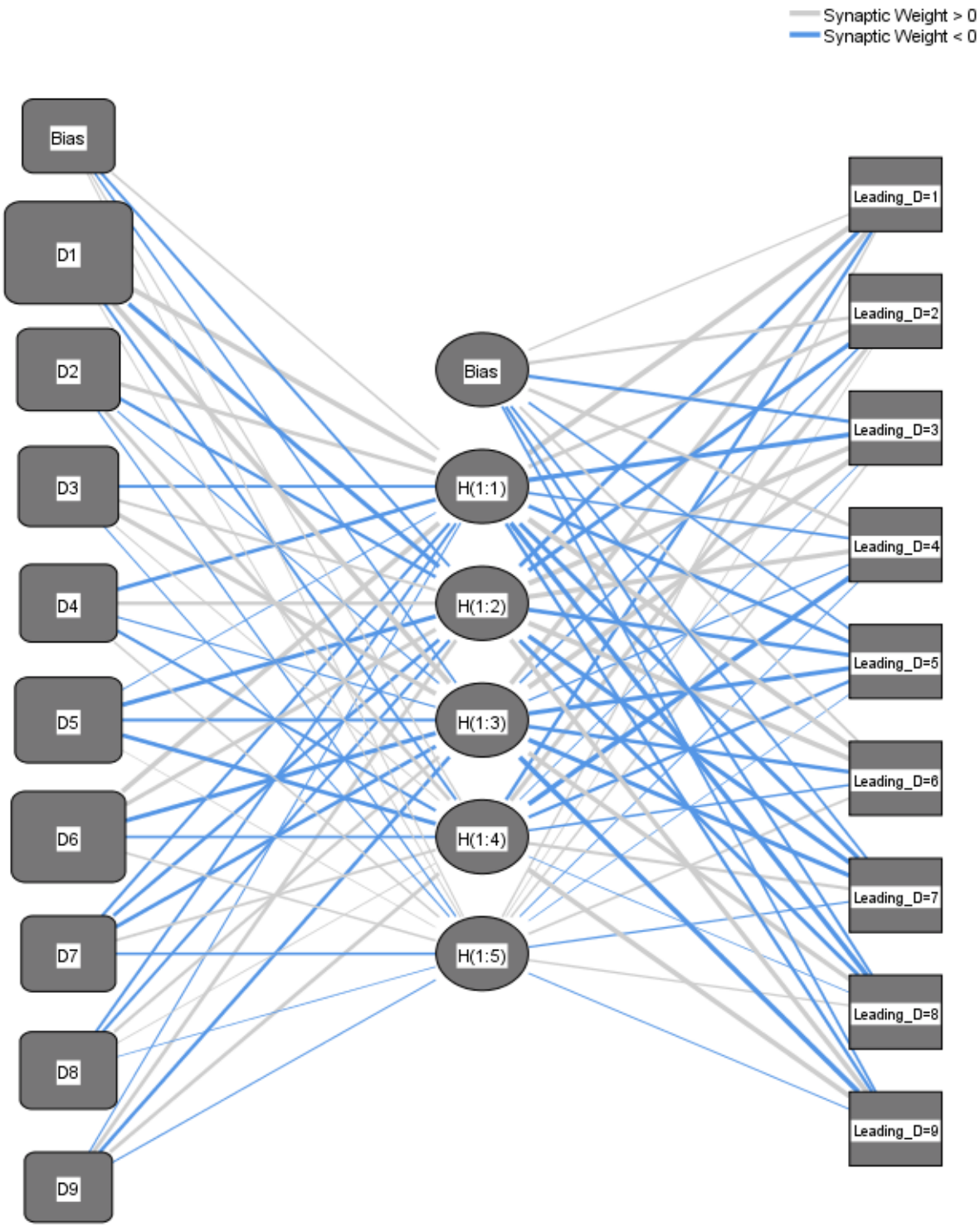
Case Processing Summary

		N	Percent
Sample	Training	76	73.1%
	Testing	28	26.9%
Valid		104	100.0%
Excluded		0	
Total		104	

Network Information

Input Layer	Covariates	1	CONTACT RESTRICTION
		2	SANITATION AND HYGIENE
		3	ISOLATION OF INFECTED
		4	TOTAL ISOLATION
		5	HEALTH CARE
		6	VIRUS DISSEMINATION
		7	LIFESTYLE CHANGES
		8	RIGHTS AND FREEDOMS INFRINGEMENT
		9	BUREAUCRATIC RESPONSE
	Number of Units[a]		9
	Rescaling Method for Covariates		Standardized
Hidden Layer(s)	Number of Hidden Layers		1
	Number of Units in Hidden Layer 1[a]		5
	Activation Function		Hyperbolic tangent
Output Layer	Dependent Variables	1	Leading discourse in meaning
	Number of Units		9
	Activation Function		Softmax
	Error Function		Cross-entropy

a. Excluding the bias unit



Hidden layer activation function: Hyperbolic tangent

Output layer activation function: Softmax

Model Summary

Training	Cross Entropy Error	3.695
	Percent Incorrect Predictions	1.3%
	Stopping Rule Used	1 consecutive step(s) with no decrease in error[a]
	Training Time	0:00:00.03
Testing	Cross Entropy Error	6.112
	Percent Incorrect Predictions	3.6%

Dependent Variable: Leading discourse in meaning

a. Error computations are based on the testing sample.

Parameter Estimates

		Predicted													
		Hidden Layer 1					Output Layer								
Predictor		H(1:1)	H(1:2)	H(1:3)	H(1:4)	H(1:5)	[Leading_D=1]	[Leading_D=2]	[Leading_D=3]	[Leading_D=4]	[Leading_D=5]	[Leading_D=6]	[Leading_D=7]	[Leading_D=8]	[Leading_D=9]
Input Layer	(Bias)	.410	-.738	-.400	.247	.168									
	D1	4.388	-2.534	4.136	-.674	.088									
	D2	2.066	-1.335	-.223	1.552	-.273									
	D3	-1.159	.758	2.775	.153	-.184									
	D4	-1.768	1.410	-.250	-1.086	.380									
	D5	-.081	-2.487	-1.244	-2.342	.008									
	D6	3.465	2.219	-2.627	-.645	.433									
	D7	-1.031	-1.454	-1.591	.658	-.494									
	D8	-.744	-1.074	1.262	.042	-.031									
	D9	-.202	1.562	-1.471	1.576	-.186									
Hidden Layer 1	(Bias)						.314	1.298	-1.354	1.513	-.484	.657	-.548	-.774	-.551
	H(1:1)						5.011	1.607	-3.191	-.548	-1.867	5.265	-2.387	-3.211	-1.316
	H(1:2)						-2.172	-2.353	3.555	3.352	-2.256	3.819	-2.700	-2.002	2.888
	H(1:3)						2.813	-.466	4.948	-.310	-2.692	-1.615	-2.535	2.785	-3.547
	H(1:4)						-1.380	2.288	-.065	-3.482	-1.274	-.460	1.262	-.022	3.485
	H(1:5)						.325	.046	.383	-.084	-.012	.489	-.287	.370	-.126

Classification

Sample	Observed	Predicted

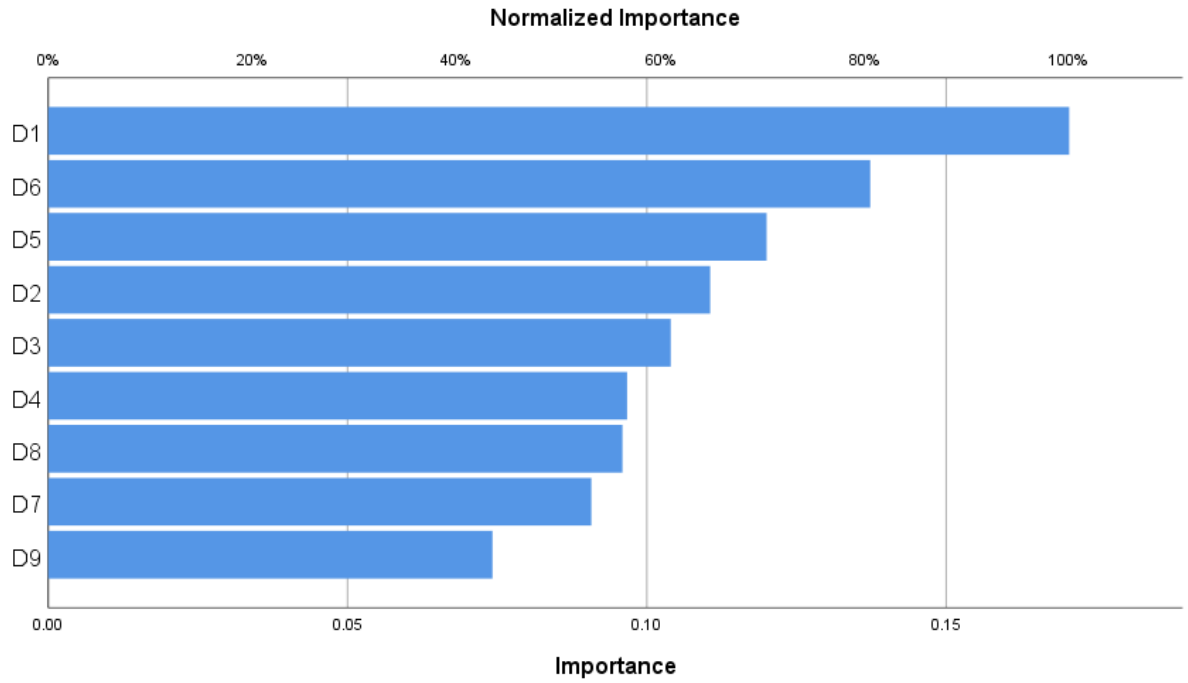
		1	2	3	4	5	6	7	8	9	Percent Correct
Training	1	18	0	0	0	0	0	0	0	0	100.0%
	2	0	2	0	0	0	0	0	1	0	66.7%
	3	0	0	9	0	0	0	0	0	0	100.0%
	4	0	0	0	5	0	0	0	0	0	100.0%
	5	0	0	0	0	3	0	0	0	0	100.0%
	6	0	0	0	0	0	16	0	0	0	100.0%
	7	0	0	0	0	0	0	8	0	0	100.0%
	8	0	0	0	0	0	0	0	4	0	100.0%
	9	0	0	0	0	0	0	0	0	10	100.0%
	Overall Percent	23.7%	2.6%	11.8%	6.6%	3.9%	21.1%	10.5%	6.6%	13.2%	98.7%
Testing	1	3	0	0	0	0	0	0	0	0	100.0%
	2	0	4	0	0	0	0	0	0	0	100.0%
	3	0	0	1	0	0	0	0	0	0	100.0%
	4	0	0	0	2	0	0	0	0	0	100.0%
	5	0	0	0	0	1	0	0	0	0	100.0%
	6	0	0	0	0	0	9	0	0	0	100.0%
	7	0	0	0	0	0	0	5	0	0	100.0%
	8	1	0	0	0	0	0	0	0	0	0.0%
	9	0	0	0	0	0	0	0	0	2	100.0%
	Overall Percent	14.3%	14.3%	3.6%	7.1%	3.6%	32.1%	17.9%	0.0%	7.1%	96.4%

Dependent Variable: Leading discourse in meaning

Independent Variable Importance

	Importance	Normalized Importance
CONTACT RESTRICTION	.171	100.0%
SANITATION AND HYGIENE	.111	64.8%
ISOLATION OF INFECTED	.104	61.0%
TOTAL ISOLATION	.097	56.7%
HEALTH CARE	.120	70.4%
VIRUS DISSEMINATION	.137	80.5%
LIFESTYLE CHANGES	.091	53.2%
RIGHTS AND FREEDOMS INFRINGEMENT	.096	56.2%

BUREAUCRATIC RESPONSE	.074	43.5%




```
*Multilayer Perceptron Network.
MLP Leading_D (MLEVEL=N) WITH D1 D2 D3 D4 D5 D6 D7 D8 D9
 /RESCALE COVARIATE=STANDARDIZED
  /PARTITION  TRAINING=7  TESTING=3  HOLDOUT=0
  /ARCHITECTURE   AUTOMATIC=YES (MINUNITS=1 MAXUNITS=50)
  /CRITERIA TRAINING=BATCH OPTIMIZATION=SCALEDCONJUGATE
LAMBDAINITIAL=0.0000005
    SIGMAINITIAL=0.00005 INTERVALCENTER=0 INTERVALOFFSET=0.5 MEMSIZE=1000
  /PRINT CPS NETWORKINFO SUMMARY CLASSIFICATION SOLUTION IMPORTANCE
  /PLOT NETWORK
  /STOPPINGRULES ERRORSTEPS= 1 (DATA=AUTO) TRAININGTIMER=ON (MAXTIME=15)
MAXEPOCHS=AUTO
    ERRORCHANGE=1.0E-4 ERRORRATIO=0.001
 /MISSING USERMISSING=EXCLUDE .
```

Multilayer Perceptron

Notes

Output Created	10-DEC-2020 15:07:51

Comments		
Input	Data	C:\Users\vitart0\OneDrive\Documents\!MyDocs\!Sience\Quarantine definition survey\SPSS\NN_EN_covid_ordinal_9D.sav
	Active Dataset	DataSet4
	Filter	<none>
	Weight	<none>
	Split File	<none>
	N of Rows in Working Data File	104
Missing Value Handling	Definition of Missing	User- and system-missing values are treated as missing.
	Cases Used	Statistics are based on cases with valid data for all variables used by the procedure.
Weight Handling		not applicable

Syntax		MLP Leading_D (MLEVEL=N) WITH D1 D2 D3 D4 D5 D6 D7 D8 D9 /RESCALE COVARIATE=STANDARDIZ ED /PARTITION TRAINING=7 TESTING=3 HOLDOUT=0 /ARCHITECTURE AUTOMATIC=YES (MINUNITS=1 MAXUNITS=50) /CRITERIA TRAINING=BATCH OPTIMIZATION=SCALEDC ONJUGATE LAMBDAINITIAL=0.0000005 SIGMAINITIAL=0.00005 INTERVALCENTER=0 INTERVALOFFSET=0.5 MEMSIZE=1000 /PRINT CPS NETWORKINFO SUMMARY CLASSIFICATION SOLUTION IMPORTANCE /PLOT NETWORK /STOPPINGRULES ERRORSTEPS= 1 (DATA=AUTO) TRAININGTIMER=ON (MAXTIME=15) MAXEPOCHS=AUTO ERRORCHANGE=1.0E-4 ERRORRATIO=0.001 /MISSING USERMISSING=EXCLUDE .
Resources	Processor Time	00:00:00.52
	Elapsed Time	00:00:00.56

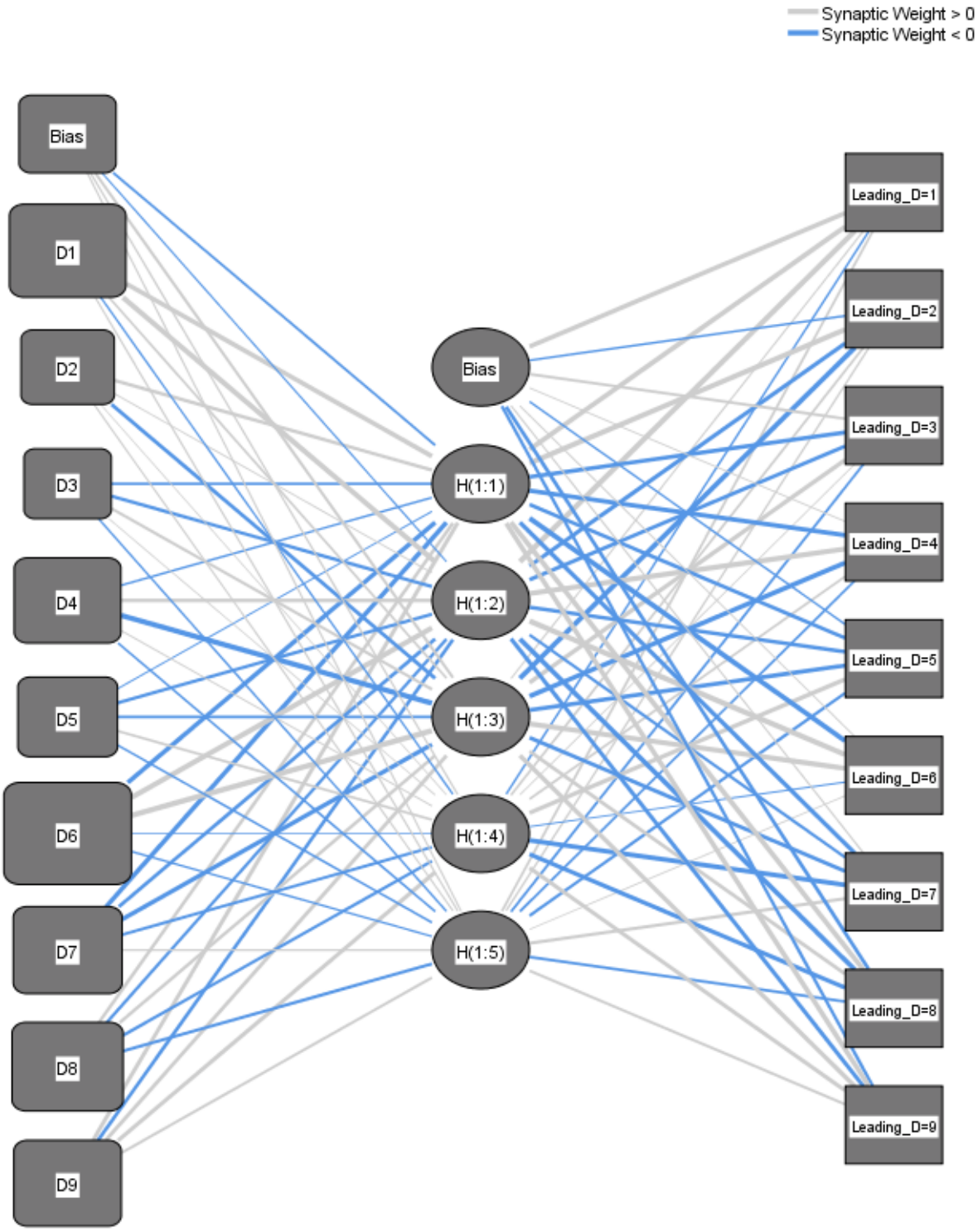
Case Processing Summary

		N	Percent
Sample	Training	74	71.2%
	Testing	30	28.8%
Valid		104	100.0%
Excluded		0	
Total		104	

Network Information

Input Layer	Covariates	1	CONTACT RESTRICTION
		2	SANITATION AND HYGIENE
		3	ISOLATION OF INFECTED
		4	TOTAL ISOLATION
		5	HEALTH CARE
		6	VIRUS DISSEMINATION
		7	LIFESTYLE CHANGES
		8	RIGHTS AND FREEDOMS INFRINGEMENT
		9	BUREAUCRATIC RESPONSE
	Number of Units[a]		9
	Rescaling Method for Covariates		Standardized
Hidden Layer(s)	Number of Hidden Layers		1
	Number of Units in Hidden Layer 1[a]		5
	Activation Function		Hyperbolic tangent
Output Layer	Dependent Variables	1	Leading discourse in meaning
	Number of Units		9
	Activation Function		Softmax
	Error Function		Cross-entropy

a. Excluding the bias unit



Hidden layer activation function: Hyperbolic tangent

Output layer activation function: Softmax

Model Summary

Training	Cross Entropy Error	.118
	Percent Incorrect Predictions	0.0%
	Stopping Rule Used	1 consecutive step(s) with no decrease in error[a]
	Training Time	0:00:00.02
Testing	Cross Entropy Error	14.478
	Percent Incorrect Predictions	6.7%

Dependent Variable: Leading discourse in meaning

a. Error computations are based on the testing sample.

Parameter Estimates

		Predicted												
		Hidden Layer 1					Output Layer							
Predictor		H(1:1)	H(1:2)	H(1:3)	H(1:4)	H(1:5)	[Leading_D=1]	[Leading_D=2]	[Leading_D=3]	[Leading_D=4]	[Leading_D=5]	[Leading_D=6]	[Leading_D=7]	[Leading_D=8]	[Leading_D=9]
Input Layer	(Bias)	-.795	-.312	1.049	.391	.297									
	D1	3.226	4.209	.621	-.441	.329									
	D2	1.745	.090	-2.040	.004	.296									
	D3	-.848	-1.630	1.087	.009	-.536									
	D4	-.551	1.817	-4.461	.230	-.564									
	D5	-.235	-1.383	-.875	.842	-.580									
	D6	-3.133	4.401	5.254	-.049	-.447									
	D7	-3.171	-1.823	-3.095	-1.100	.441									
	D8	1.546	-1.211	1.361	-1.213	-1.252									
	D9	2.344	-1.795	1.998	2.490	.932									
Hidden Layer 1	(Bias)						3.215	-.554	1.023	.149	-.482	.150	.280	-1.971	-1.322
	H(1:1)						3.483	4.384	-2.797	-3.150	-2.086	-3.831	-2.932	3.600	3.377
	H(1:2)						4.555	-2.658	-2.133	4.007	-2.139	4.880	-1.122	-3.411	-2.495
	H(1:3)						.249	-3.805	2.823	-3.319	-2.815	3.834	-2.248	1.931	3.062
	H(1:4)						-.545	.647	.012	.696	2.931	-.237	-3.285	-3.014	2.370
	H(1:5)						.765	.441	-.819	-.738	-1.155	.052	1.279	-1.001	.999

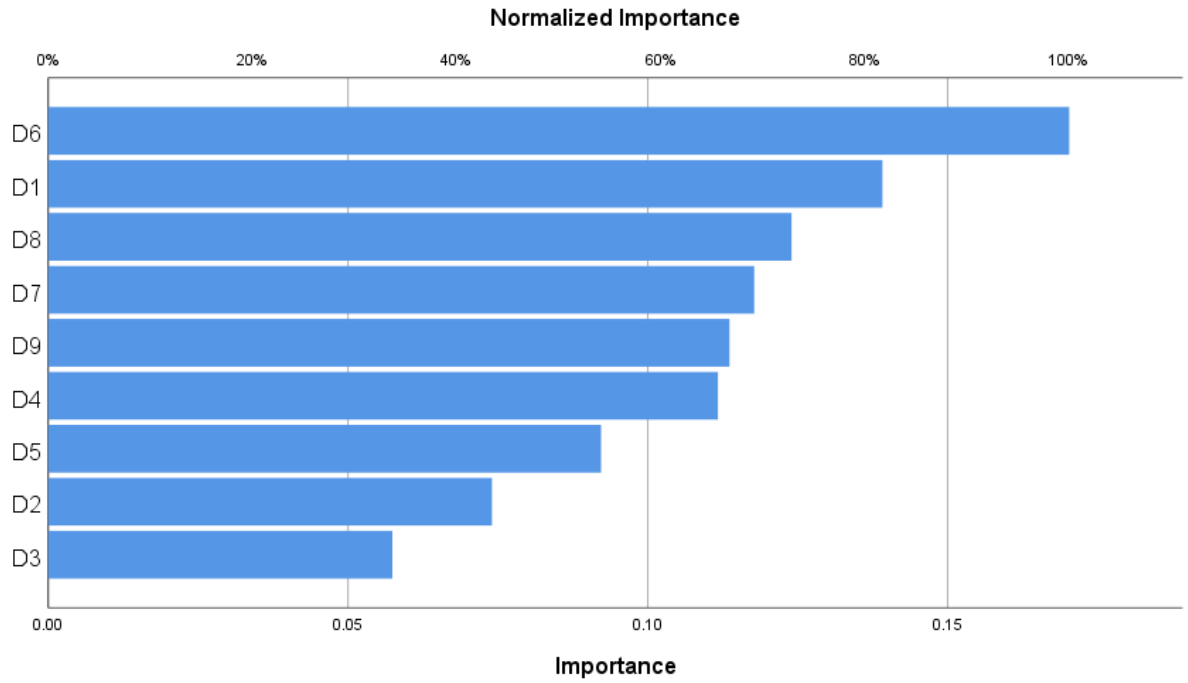
Classification

Sample	Observed	Predicted

		1	2	3	4	5	6	7	8	9	Percent Correct
Training	1	13	0	0	0	0	0	0	0	0	100.0%
	2	0	6	0	0	0	0	0	0	0	100.0%
	3	0	0	6	0	0	0	0	0	0	100.0%
	4	0	0	0	5	0	0	0	0	0	100.0%
	5	0	0	0	0	4	0	0	0	0	100.0%
	6	0	0	0	0	0	18	0	0	0	100.0%
	7	0	0	0	0	0	0	10	0	0	100.0%
	8	0	0	0	0	0	0	0	3	0	100.0%
	9	0	0	0	0	0	0	0	0	9	100.0%
	Overall Percent	17.6%	8.1%	8.1%	6.8%	5.4%	24.3%	13.5%	4.1%	12.2%	100.0%
Testing	1	7	1	0	0	0	0	0	0	0	87.5%
	2	0	1	0	0	0	0	0	0	0	100.0%
	3	0	0	3	0	0	0	0	0	1	75.0%
	4	0	0	0	2	0	0	0	0	0	100.0%
	5	0	0	0	0	0	0	0	0	0	0.0%
	6	0	0	0	0	0	7	0	0	0	100.0%
	7	0	0	0	0	0	0	3	0	0	100.0%
	8	0	0	0	0	0	0	0	2	0	100.0%
	9	0	0	0	0	0	0	0	0	3	100.0%
	Overall Percent	23.3%	6.7%	10.0%	6.7%	0.0%	23.3%	10.0%	6.7%	13.3%	93.3%

Dependent Variable: Leading discourse in meaning

Independent Variable Importance

	Importance	Normalized Importance
CONTACT RESTRICTION	.139	81.7%
SANITATION AND HYGIENE	.074	43.5%
ISOLATION OF INFECTED	.057	33.7%
TOTAL ISOLATION	.112	65.6%
HEALTH CARE	.092	54.1%
VIRUS DISSEMINATION	.170	100.0%
LIFESTYLE CHANGES	.118	69.2%
RIGHTS AND FREEDOMS INFRINGEMENT	.124	72.8%

BUREAUCRATIC RESPONSE	.114	66.7%