```
DATASET ACTIVATE DataSet3.
*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
  /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		14-DEC-2020 14:14:19
Comments		
Input	Data	C:\Users\vitart0\OneDrive\Documents\!MyDocs\!Sience\Quarantine definition survey\SPSS\NN_EN_covid_ordinal_9D.sav
	Active Dataset	DataSet3
	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 /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	00:00:00.25
	Elapsed Time	00:00:00.33

[DataSet3] C:\Users\vitart0\OneDrive\Documents\!MyDocs\!Sience\Quarantine definition survey\SPSS\NN_EN_covid_ordinal_9D.sav

Case Processing Summary

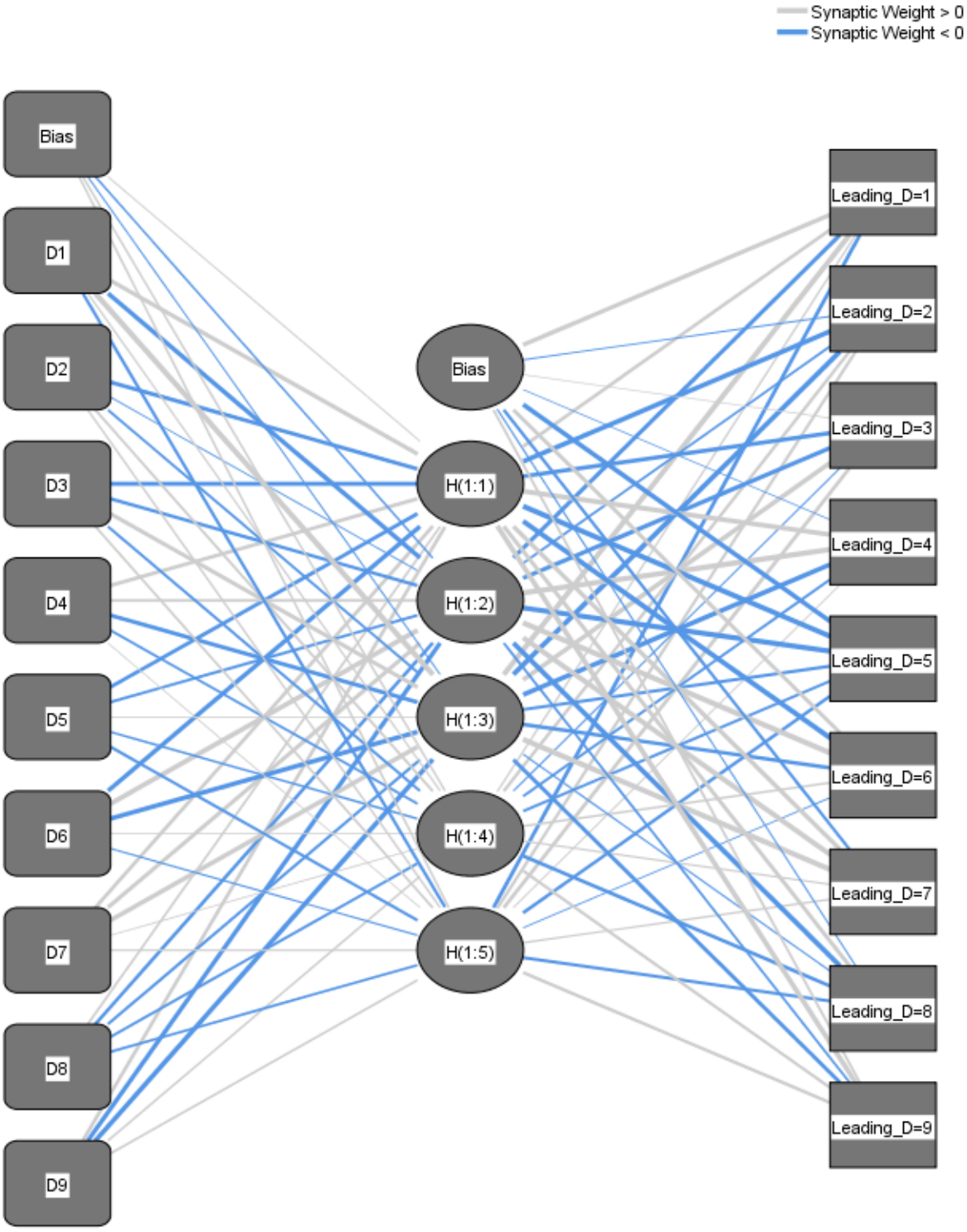
		N	Percent
Sample	Training	72	69.2%
	Testing	32	30.8%
Valid		104	100.0%
Excluded		0	
Total		104	

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	.881
	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	16.076
	Percent Incorrect Predictions	9.4%

Dependent Variable: Leading discourse in meaning

a. Error computations are based on the testing sample.

Classification

		Predicted									
Sample	Observed	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	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	18	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	2	0	100.0%
	9	0	0	0	0	0	0	0	0	9	100.0%
	Overall Percent	22.2%	6.9%	6.9%	8.3%	4.2%	25.0%	11.1%	2.8%	12.5%	100.0%
Testing	1	5	0	0	0	0	0	0	0	0	100.0%
	2	0	1	1	0	0	0	0	0	0	50.0%
	3	0	1	4	0	0	0	0	0	0	80.0%
	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	0	0	0	0	0	7	0	0	0	100.0%
	7	0	0	0	0	0	0	5	0	0	100.0%
	8	0	0	0	0	1	0	0	2	0	66.7%
	9	0	0	0	0	0	0	0	0	3	100.0%

Overall Percent	15.6%	6.3%	15.6%	3.1%	6.3%	21.9%	15.6%	6.3%	9.4%	90.6%

Dependent Variable: Leading discourse in meaning

```
*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
  /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		14-DEC-2020 14:14:30
Comments		
Input	Data	C:\Users\vitart0\OneDrive\Documents\!MyDocs\!Sience\Quarantine definition survey\SPSS\NN_EN_covid_ordinal_9D.sav
	Active Dataset	DataSet3
	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 /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	00:00:00.28

Elapsed Time	00:00:00.26

Case Processing Summary

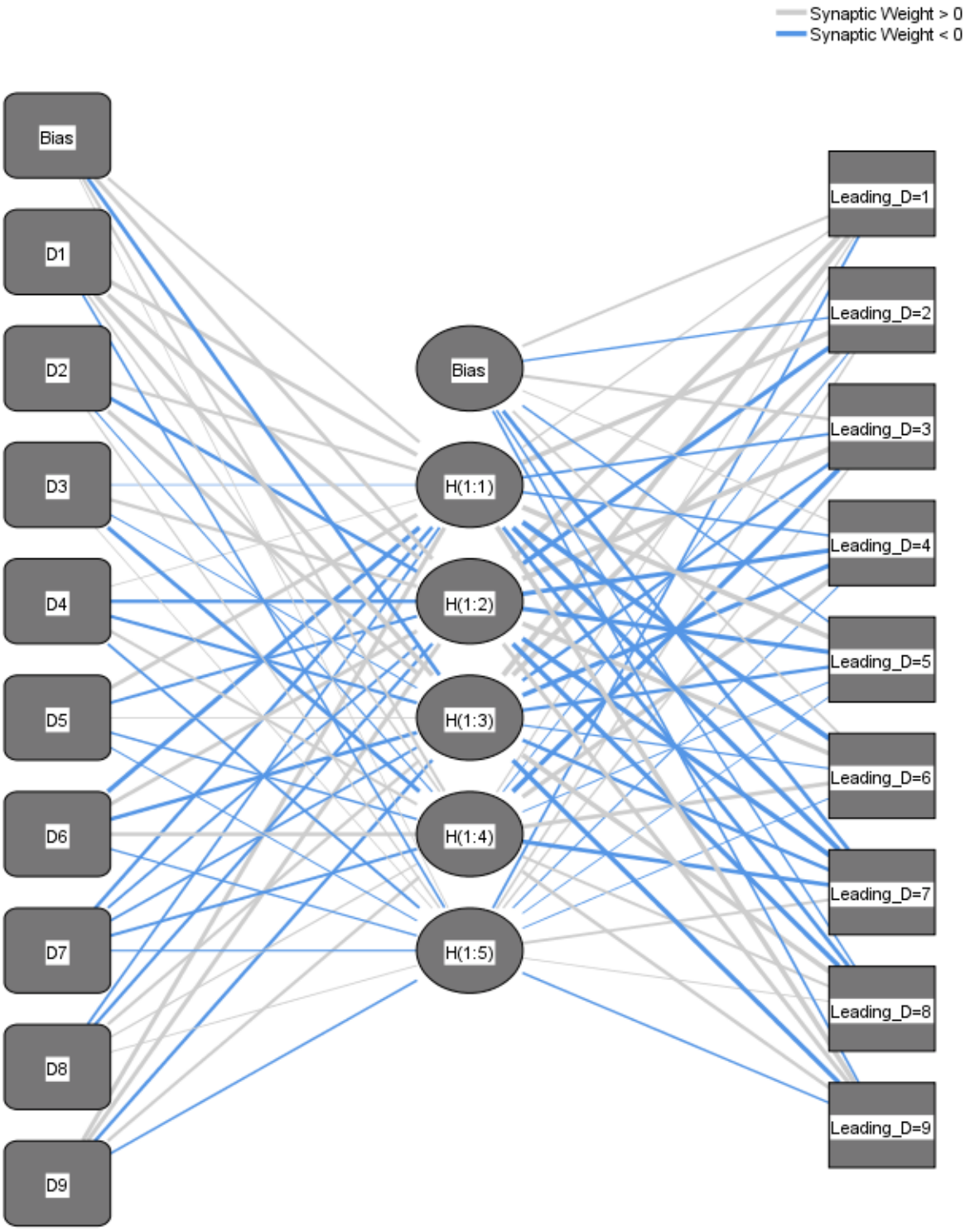
		N	Percent
Sample	Training	67	64.4%
	Testing	37	35.6%
Valid		104	100.0%
Excluded		0	
Total		104	

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]		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	1.375
	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	14.326
	Percent Incorrect Predictions	10.8%

Dependent Variable: Leading discourse in meaning

a. Error computations are based on the testing sample.

Classification

		Predicted									
Sample	Observed	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	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	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	6	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	9	100.0%
	Overall Percent	19.4%	7.5%	11.9%	7.5%	4.5%	23.9%	9.0%	3.0%	13.4%	100.0%
Testing	1	4	3	0	0	0	0	0	1	0	50.0%
	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	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	7	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	3	100.0%
	Overall Percent	10.8%	13.5%	5.4%	5.4%	2.7%	24.3%	18.9%	10.8%	8.1%	89.2%

Dependent Variable: Leading discourse in meaning

```
*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
  /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		14-DEC-2020 14:14:39
Comments		
Input	Data	C:\Users\vitart0\OneDrive\Documents\!MyDocs\!Sience\Quarantine definition survey\SPSS\NN_EN_covid_ordinal_9D.sav
	Active Dataset	DataSet3
	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=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 /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	00:00:00.25
	Elapsed Time	00:00:00.27

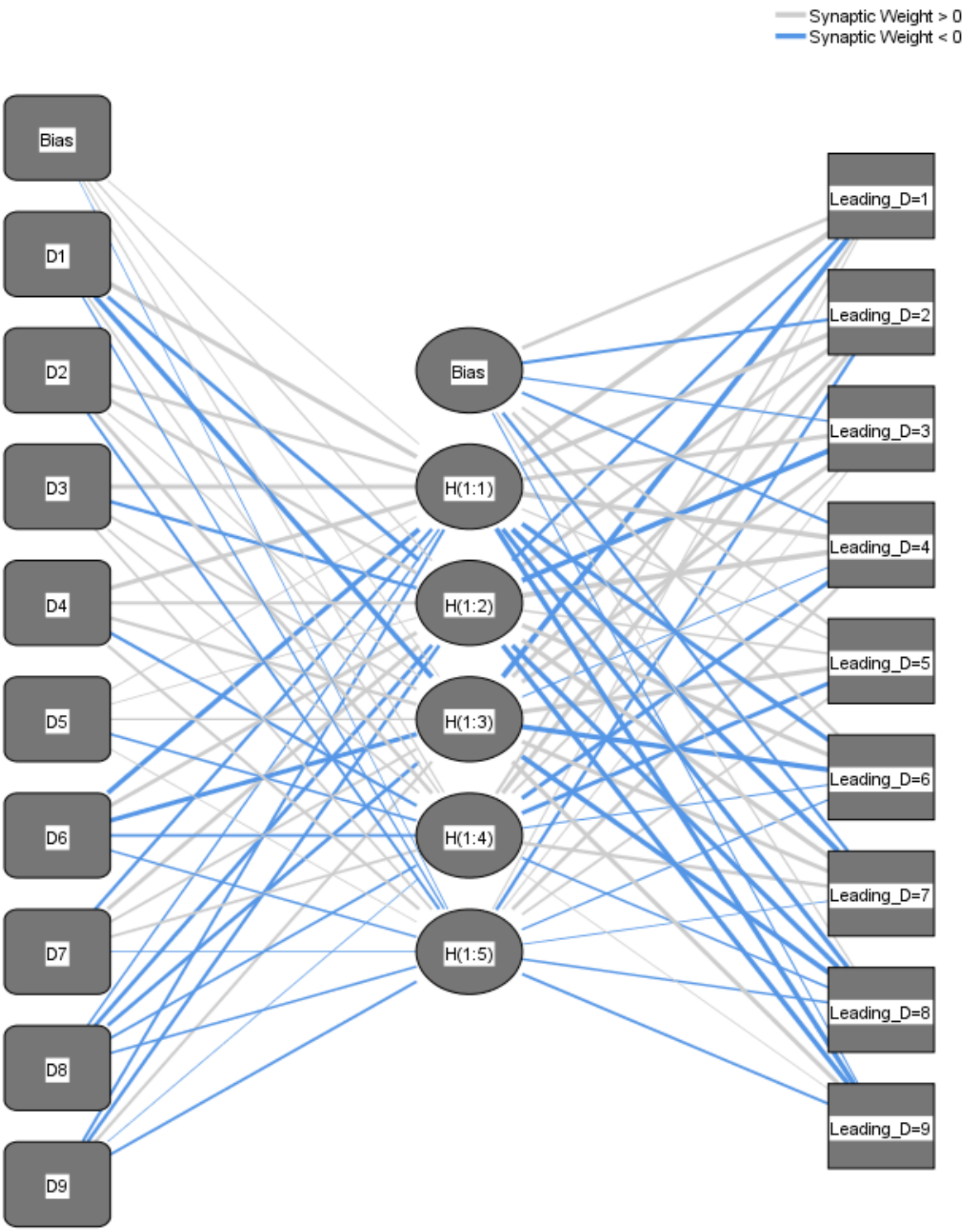
Case Processing Summary

		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	1.145
	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	5.094
	Percent Incorrect Predictions	6.7%

Dependent Variable: Leading discourse in meaning

a. Error computations are based on the testing sample.

Classification

		Predicted									
Sample	Observed	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	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	16	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	4	0	100.0%
	9	0	0	0	0	0	0	0	0	8	100.0%
	Overall Percent	21.6%	5.4%	10.8%	6.8%	4.1%	21.6%	13.5%	5.4%	10.8%	100.0%
Testing	1	5	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	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	1	0	0	0	0	8	0	0	0	88.9%
	7	0	0	0	0	0	0	3	0	0	100.0%
	8	0	0	0	0	0	0	0	1	0	100.0%
	9	0	0	1	0	0	0	0	0	3	75.0%
	Overall Percent	20.0%	10.0%	10.0%	6.7%	3.3%	26.7%	10.0%	3.3%	10.0%	93.3%

Dependent Variable: Leading discourse in meaning

```
*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
  /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		14-DEC-2020 14:14:47
Comments		
Input	Data	C:\Users\vitart0\OneDrive\Documents\!MyDocs\!Sience\Quarantine definition survey\SPSS\NN_EN_covid_ordinal_9D.sav
	Active Dataset	DataSet3
	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=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 /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	00:00:00.25
	Elapsed Time	00:00:00.26

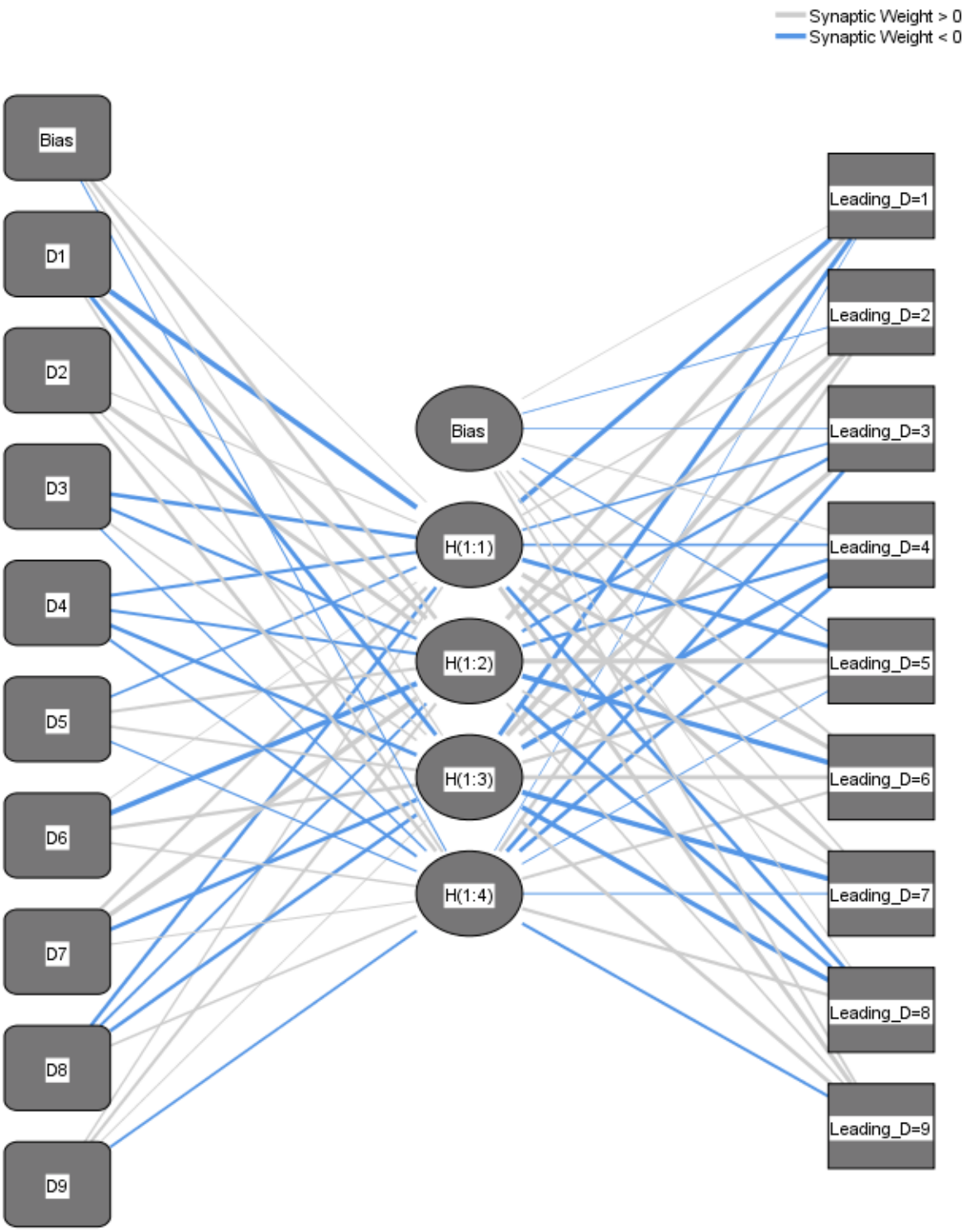
Case Processing Summary

		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	8.563
	Percent Incorrect Predictions	2.6%
	Stopping Rule Used	1 consecutive step(s) with no decrease in error[a]
	Training Time	0:00:00.01
Testing	Cross Entropy Error	8.156
	Percent Incorrect Predictions	10.7%

Dependent Variable: Leading discourse in meaning

a. Error computations are based on the testing sample.

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	5	0	0	1	0	0	0	0	83.3%
	3	0	0	4	0	1	0	0	0	0	80.0%
	4	0	0	0	4	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	17	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	10	100.0%
	Overall Percent	19.7%	6.6%	5.3%	5.3%	6.6%	22.4%	15.8%	5.3%	13.2%	97.4%
Testing	1	5	0	0	0	1	0	0	0	0	83.3%
	2	0	1	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	3	0	0	0	0	0	100.0%
	5	0	0	0	0	1	0	0	0	0	100.0%
	6	0	2	0	0	0	6	0	0	0	75.0%
	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	2	100.0%
	Overall Percent	17.9%	10.7%	17.9%	10.7%	7.1%	21.4%	3.6%	3.6%	7.1%	89.3%

Dependent Variable: Leading discourse in meaning

```
*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
  /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		14-DEC-2020 14:14:59
Comments		
Input	Data	C:\Users\vitart0\OneDrive\Documents\!MyDocs\!Sience\Quarantine definition survey\SPSS\NN_EN_covid_ordinal_9D.sav
	Active Dataset	DataSet3
	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 /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	00:00:00.25
	Elapsed Time	00:00:00.29

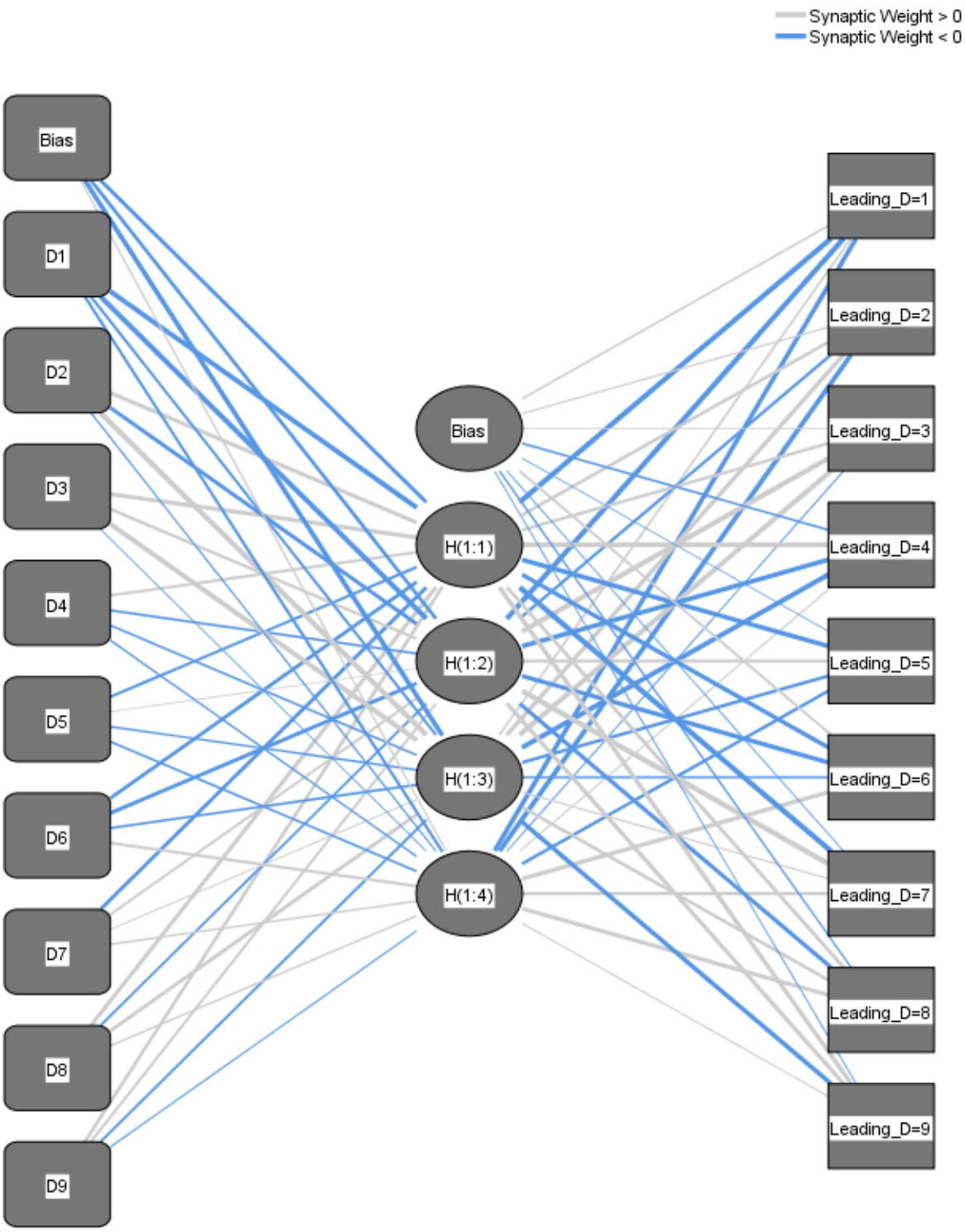
Case Processing Summary

		N	Percent
Sample	Training	72	69.2%
	Testing	32	30.8%
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]		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	2.882
	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	12.775
	Percent Incorrect Predictions	9.4%

Dependent Variable: Leading discourse in meaning

a. Error computations are based on the testing sample.

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	6	0	0	0	0	0	0	0	100.0%
	3	0	0	9	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	4	0	0	0	0	100.0%
	6	0	0	0	0	0	15	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	4	0	100.0%
	9	0	0	0	0	0	0	0	0	6	100.0%
	Overall Percent	20.8%	8.3%	12.5%	4.2%	5.6%	20.8%	13.9%	5.6%	8.3%	100.0%
Testing	1	4	2	0	0	0	0	0	0	0	66.7%
	2	0	1	0	0	0	0	0	0	0	100.0%
	3	0	0	1	0	0	0	0	0	0	100.0%
	4	1	0	0	3	0	0	0	0	0	75.0%
	5	0	0	0	0	0	0	0	0	0	0.0%
	6	0	0	0	0	0	10	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	1	0	100.0%
	9	0	0	0	0	0	0	0	0	6	100.0%
	Overall Percent	15.6%	9.4%	3.1%	9.4%	0.0%	31.3%	9.4%	3.1%	18.8%	90.6%

Dependent Variable: Leading discourse in meaning

```
*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
  /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		14-DEC-2020 14:16:13
Comments		
Input	Data	C:\Users\vitart0\OneDrive\Documents\!MyDocs\!Sience\Quarantine definition survey\SPSS\NN_EN_covid_ordinal_9D.sav
	Active Dataset	DataSet3
	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=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 /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	00:00:00.34
	Elapsed Time	00:00:00.28

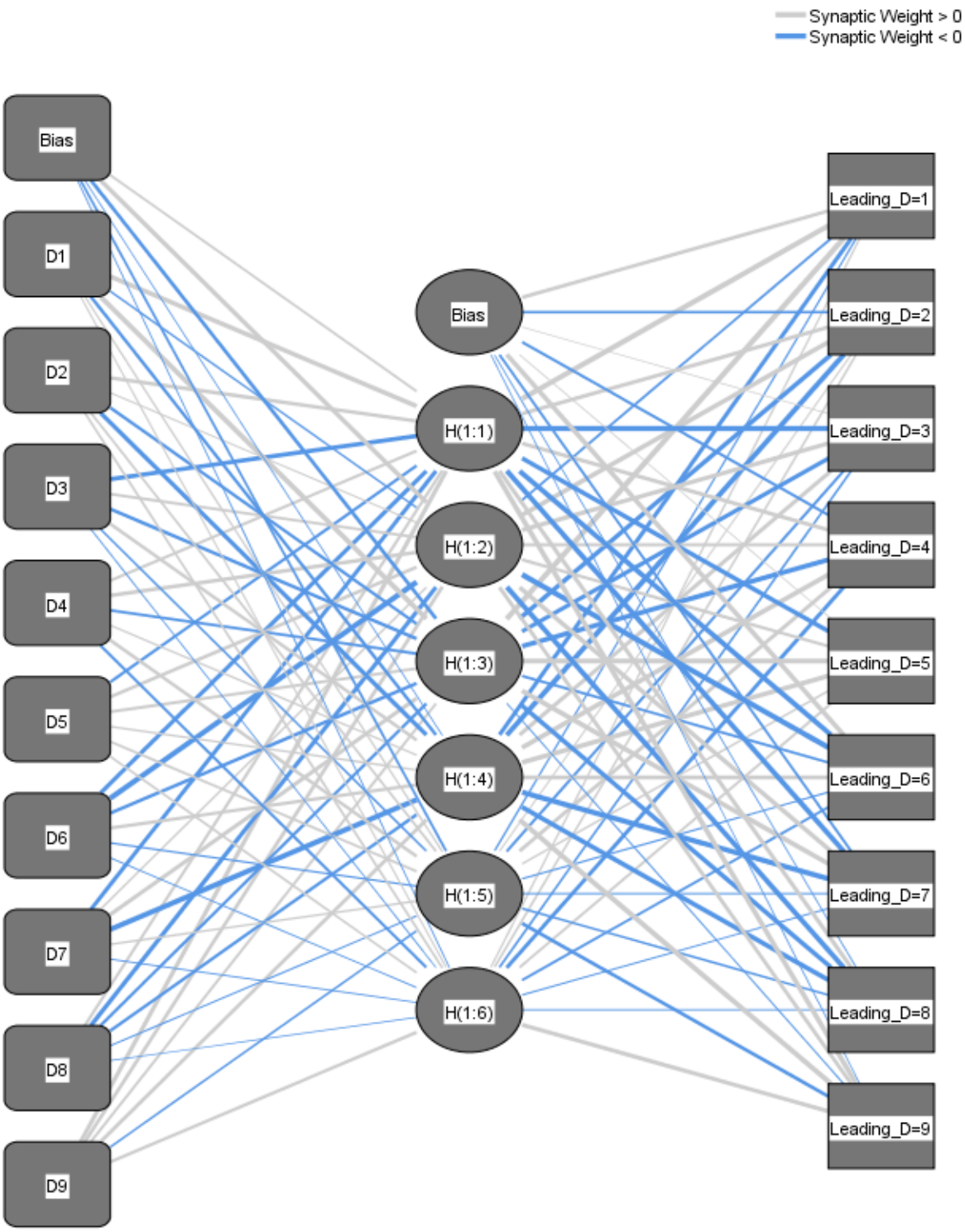
Case Processing Summary

		N	Percent
Sample	Training	72	69.2%
	Testing	32	30.8%
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]		6
	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	1.163
	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	13.288
	Percent Incorrect Predictions	15.6%

Dependent Variable: Leading discourse in meaning

a. Error computations are based on the testing sample.

Classification

		Predicted									
Sample	Observed	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	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	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	20	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	7	100.0%
	Overall Percent	18.1%	6.9%	9.7%	6.9%	2.8%	27.8%	13.9%	4.2%	9.7%	100.0%
Testing	1	6	0	0	0	1	0	0	0	1	75.0%
	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	2	0	0	0	0	0	100.0%
	5	0	0	1	0	1	0	0	0	0	50.0%
	6	0	0	0	1	0	3	0	1	0	60.0%
	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	5	100.0%
	Overall Percent	18.8%	6.3%	12.5%	9.4%	6.3%	9.4%	9.4%	9.4%	18.8%	84.4%

Dependent Variable: Leading discourse in meaning

```
*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
  /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		14-DEC-2020 14:16:23
Comments		
Input	Data	C:\Users\vitart0\OneDrive\Documents\!MyDocs\!Sience\Quarantine definition survey\SPSS\NN_EN_covid_ordinal_9D.sav
	Active Dataset	DataSet3
	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=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 /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	00:00:00.23
	Elapsed Time	00:00:00.26

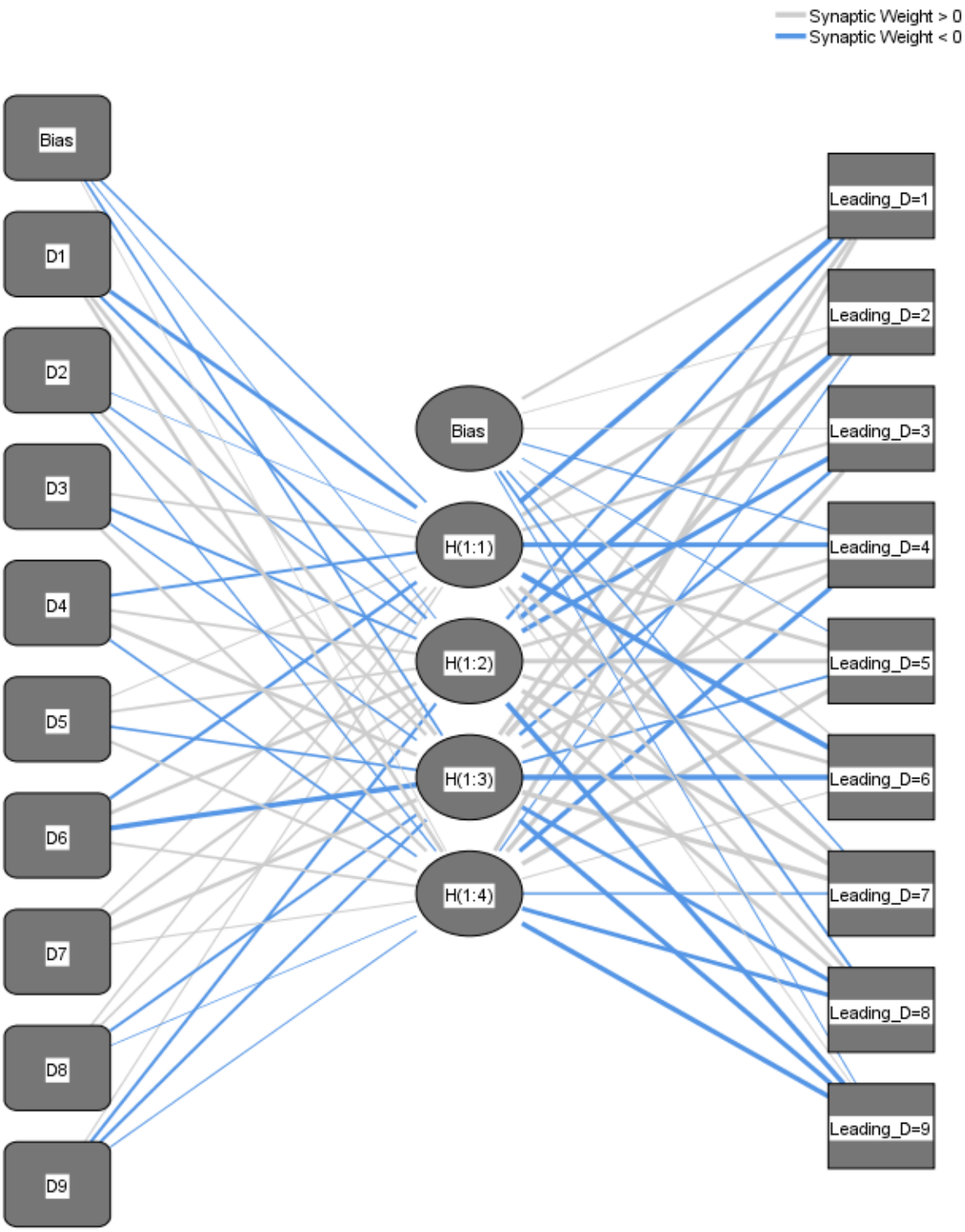
Case Processing Summary

		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	.149
	Percent Incorrect Predictions	0.0%
	Stopping Rule Used	Training error ratio criterion (.001) achieved
	Training Time	0:00:00.01
Testing	Cross Entropy Error	.045
	Percent Incorrect Predictions	0.0%

Dependent Variable: Leading discourse in meaning

Classification

		Predicted									
Sample	Observed	1	2	3	4	5	6	7	8	9	Percent Correct
Training	1	14	0	0	0	0	0	0	0	0	100.0%
	2	0	7	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	17	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	10	100.0%
	Overall Percent	18.2%	9.1%	10.4%	6.5%	3.9%	22.1%	13.0%	3.9%	13.0%	100.0%
Testing	1	7	0	0	0	0	0	0	0	0	100.0%
	2	0	0	0	0	0	0	0	0	0	0.0%
	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	8	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	2	100.0%
	Overall Percent	25.9%	0.0%	7.4%	7.4%	3.7%	29.6%	11.1%	7.4%	7.4%	100.0%

Dependent Variable: Leading discourse in meaning

```
*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
  /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		14-DEC-2020 14:16:28
Comments		
Input	Data	C:\Users\vitart0\OneDrive\Documents\!MyDocs\!Sience\Quarantine definition survey\SPSS\NN_EN_covid_ordinal_9D.sav
	Active Dataset	DataSet3
	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=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 /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	00:00:00.25
	Elapsed Time	00:00:00.27

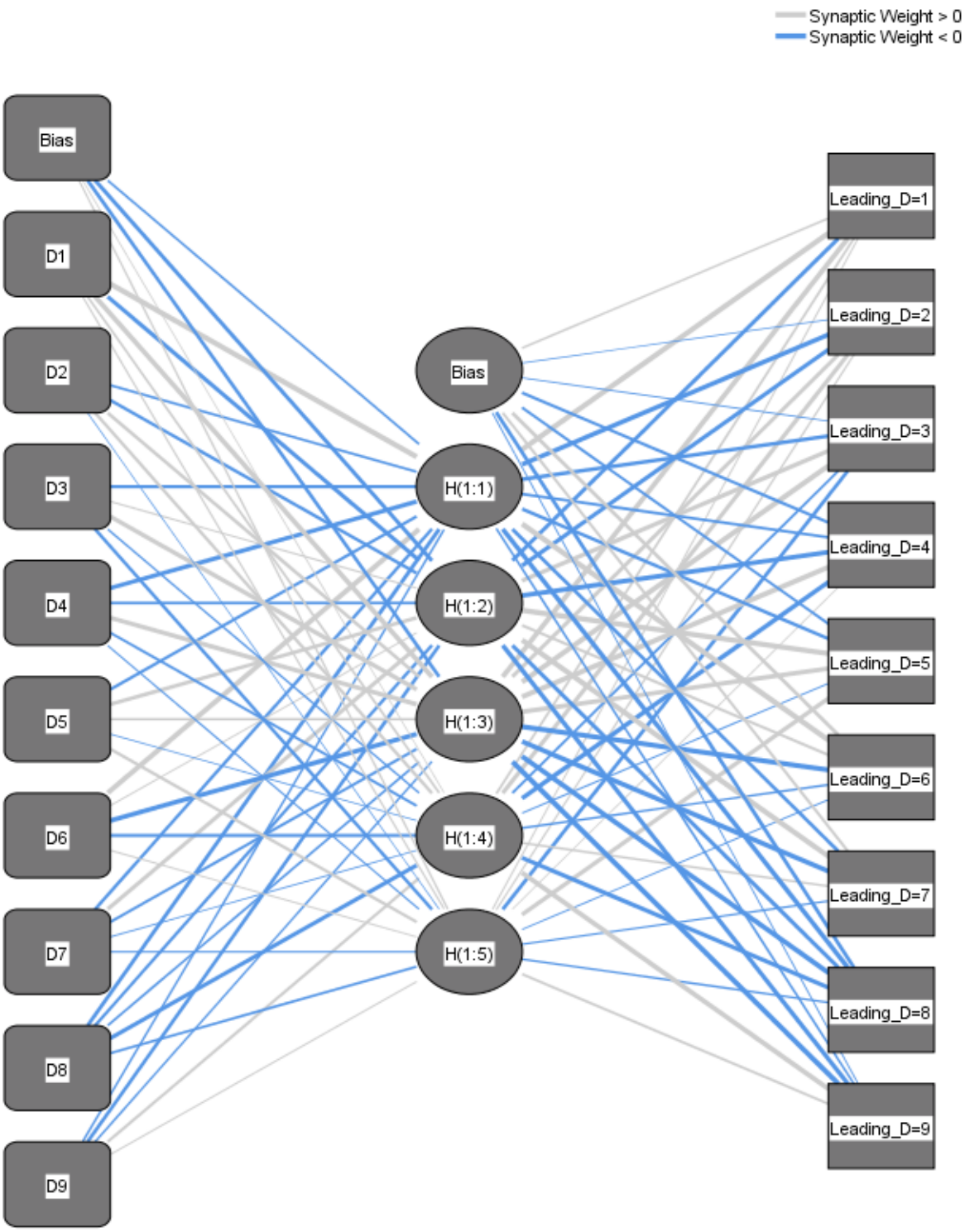
Case Processing Summary

		N	Percent
Sample	Training	73	70.2%
	Testing	31	29.8%
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	1.588
	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	13.922
	Percent Incorrect Predictions	12.9%

Dependent Variable: Leading discourse in meaning

a. Error computations are based on the testing sample.

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	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	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	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	20.5%	6.8%	6.8%	6.8%	4.1%	21.9%	12.3%	6.8%	13.7%	100.0%
Testing	1	5	0	0	0	1	0	0	0	0	83.3%
	2	0	2	0	0	0	0	0	0	0	100.0%
	3	0	1	3	1	0	0	0	0	0	60.0%
	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	1	0	0	0	0	8	0	0	0	88.9%
	7	0	0	0	0	0	0	4	0	0	100.0%
	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	19.4%	9.7%	9.7%	9.7%	6.5%	25.8%	12.9%	0.0%	6.5%	87.1%

Dependent Variable: Leading discourse in meaning

```
*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
  /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		14-DEC-2020 14:16:37
Comments		
Input	Data	C:\Users\vitart0\OneDrive\Documents\!MyDocs\!Sience\Quarantine definition survey\SPSS\NN_EN_covid_ordinal_9D.sav
	Active Dataset	DataSet3
	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=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 /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	00:00:00.27
	Elapsed Time	00:00:00.27

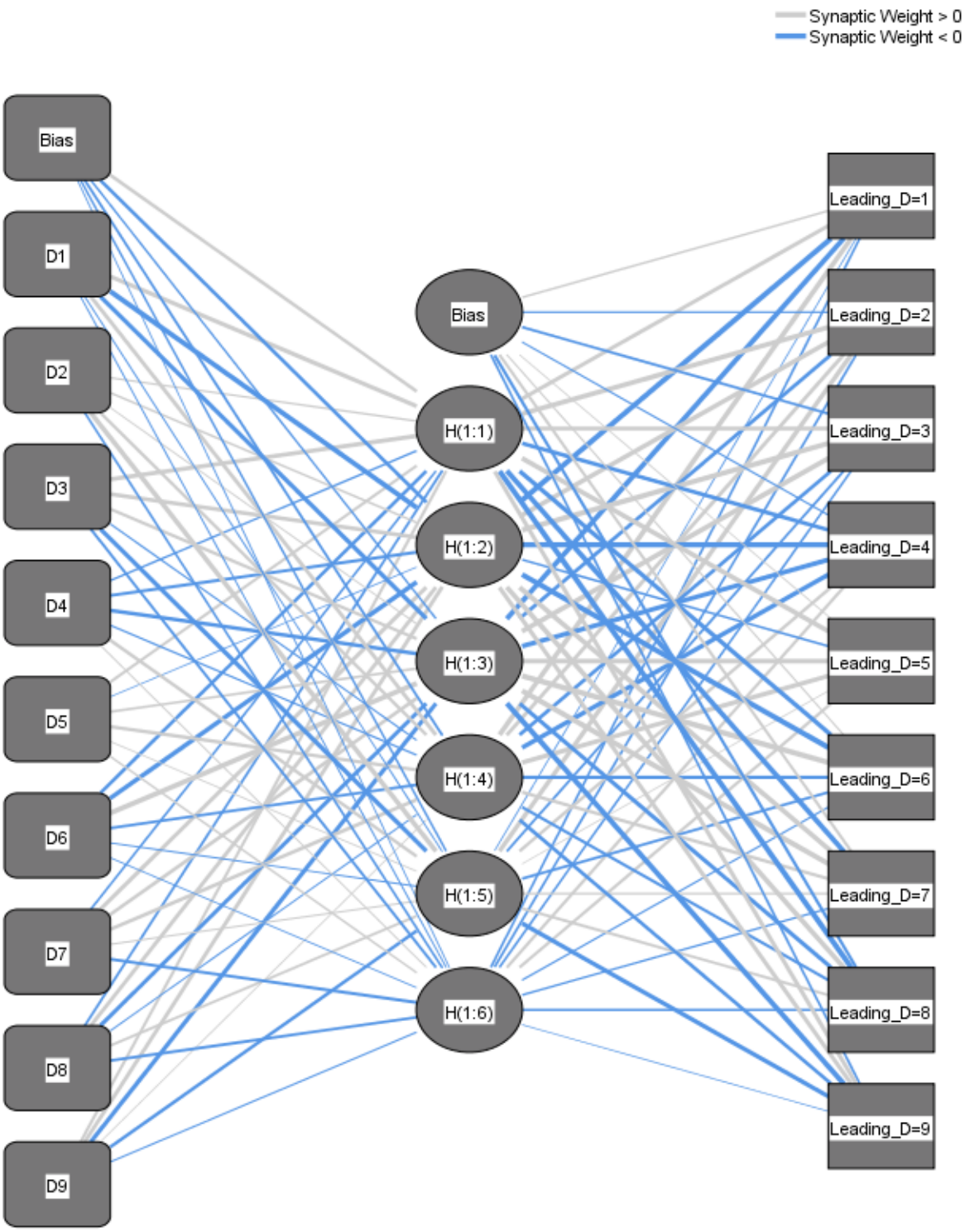
Case Processing Summary

		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]		6
	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	.138
	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	8.925
	Percent Incorrect Predictions	10.7%

Dependent Variable: Leading discourse in meaning

a. Error computations are based on the testing sample.

Classification

		Predicted									
Sample	Observed	1	2	3	4	5	6	7	8	9	Percent Correct
Training	1	14	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	6	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	0	100.0%
	7	0	0	0	0	0	0	10	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	18.4%	5.3%	10.5%	7.9%	2.6%	22.4%	13.2%	6.6%	13.2%	100.0%
Testing	1	7	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	1	0	0	0	0	0	1	50.0%
	4	0	0	0	1	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	8	0	0	0	100.0%
	7	0	0	0	0	0	0	2	1	0	66.7%
	8	0	0	0	0	0	0	0	0	0	0.0%
	9	0	1	0	0	0	0	0	0	1	50.0%
	Overall Percent	25.0%	14.3%	3.6%	3.6%	7.1%	28.6%	7.1%	3.6%	7.1%	89.3%

Dependent Variable: Leading discourse in meaning

```
*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
  /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		14-DEC-2020 14:17:01
Comments		
Input	Data	C:\Users\vitart0\OneDrive\Documents\!MyDocs\!Sience\Quarantine definition survey\SPSS\NN_EN_covid_ordinal_9D.sav
	Active Dataset	DataSet3
	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=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 /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	00:00:00.23
	Elapsed Time	00:00:00.26

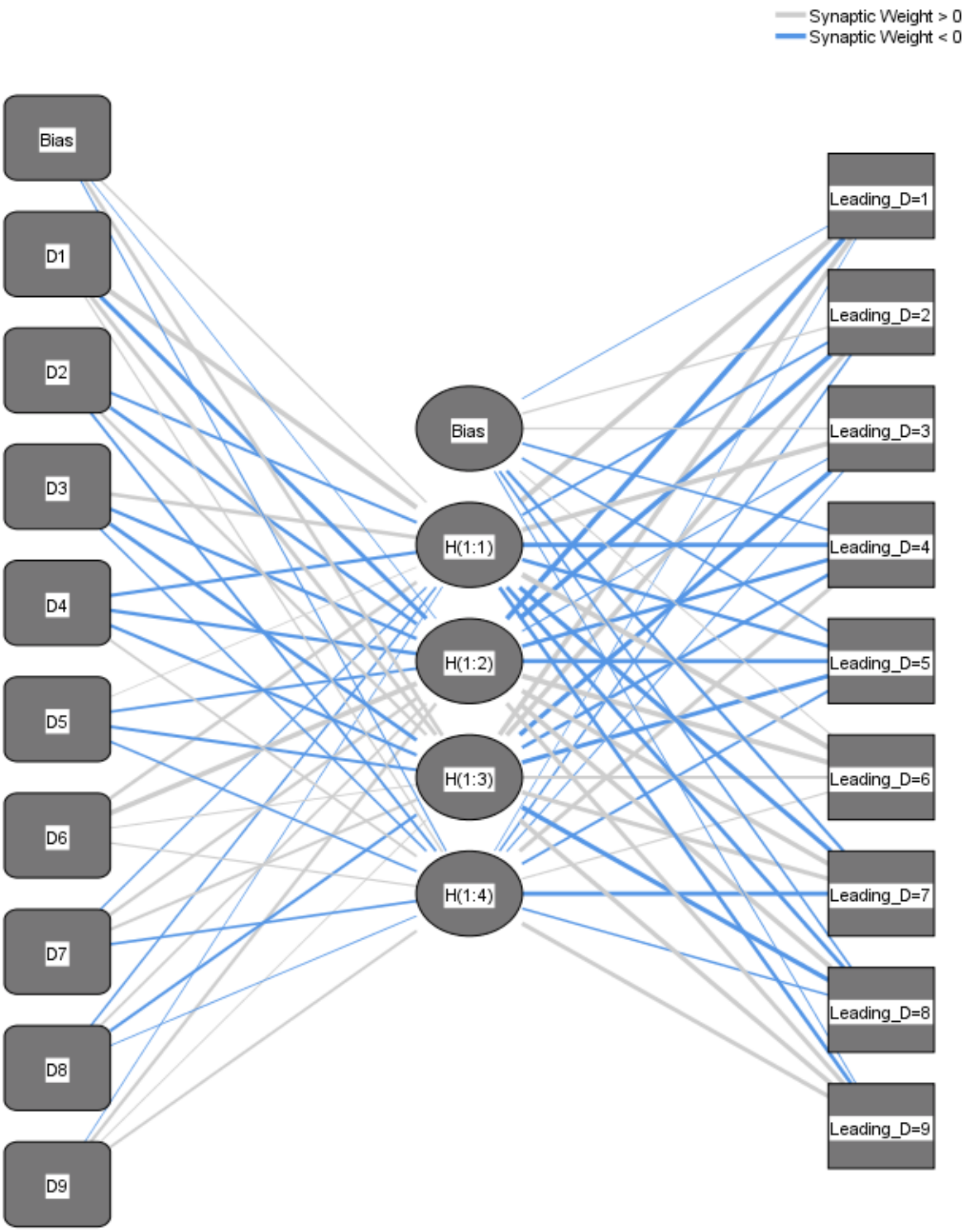
Case Processing Summary

		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]		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	6.843
	Percent Incorrect Predictions	1.4%
	Stopping Rule Used	1 consecutive step(s) with no decrease in error[a]
	Training Time	0:00:00.01
Testing	Cross Entropy Error	10.772
	Percent Incorrect Predictions	6.7%

Dependent Variable: Leading discourse in meaning

a. Error computations are based on the testing sample.

Classification

		Predicted									
Sample	Observed	1	2	3	4	5	6	7	8	9	Percent Correct
Training	1	15	0	1	0	0	0	0	0	0	93.8%
	2	0	6	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	4	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	15	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	20.3%	8.1%	10.8%	5.4%	5.4%	20.3%	12.2%	5.4%	12.2%	98.6%
Testing	1	5	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	3	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	0	0	0	0	0	0.0%
	6	1	0	0	0	0	8	0	0	1	80.0%
	7	0	0	0	0	0	0	4	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	3	100.0%
	Overall Percent	20.0%	3.3%	10.0%	10.0%	0.0%	26.7%	13.3%	3.3%	13.3%	93.3%

Dependent Variable: Leading discourse in meaning