

LOC Association Rules: Cascade Approach

Contents

1	Demographics	1
1.1	Participant Characteristics	1
1.2	Parent Characteristics	2
2	CEBQ and CFQ by LOC status	3
3	Fequency of Items by LOC status	3
4	Determinants of LOC	3
4.1	Step 1: Single Predictor	3
4.2	Step 2: Multiple Predictors	7
4.3	Clustering of Rules	11
4.4	Testing Additive Effects	16
5	Determinants of No LOC-eating	18
5.1	Step 1: Single Predictor	18
5.2	Step 2: Multiple Predictors	19
5.3	Clustering	30
5.4	Testing Additive Effects	38
6	Determinants of Absence of LOC in High Risk Sample	41
6.1	Step 1: Single Predictor	41
6.2	Step 2: Multiple Predictors	41
6.3	Clustering	41

1 Demographics

1.1 Participant Characteristics

	Full Sample	LOC	
		Yes	No
Total(<i>N</i>)	177	37	121
LOC Not Reported	19		
Age(Mean (SD))	9.19 (1.32)	8.89 (1.31)	9.28 (1.37)
Sex(<i>N</i>)			
Male	91	19	63
Female	86	18	58
BMI percentile(Mean (SD))	60.02 (28.48)	71.49 (26.24)	57.64 (27.64)
BMI Status(<i>N</i>)			
Obese	23	8	13
Overweight	24	7	14
Healthy Weight	128	22	93
Underweight	2	0	1
Ethnicity(<i>N</i>)			
Hispanic/Latino	8	2	5
Not Hispanic/Latino	126	33	76
Not Reported	39	2	34
Race ^A (<i>N</i>)			
Black/African American	6	4	2
White	161	31	114
Other	8	1	4
Not Reported	2	1	1
SES(<i>N</i>)			
> \$100,000	49	6	40
\$50,000 – \$100,000	83	21	54
< \$50,000	40	10	24
Not Reported	5	0	3
Breast Fed Duration(<i>N</i>)			
Never	53	10	30
1-3 months	15	3	12
4-6 months	51	13	35
7-9 months	36	5	31
10+ months	18	5	11
Not Reported	4	1	2

^AFisher's exact test p<0.05

1.2 Parent Characteristics

	Full Sample	LOC	
		Yes	No
Total(<i>N</i>)	177	37	121
LOC Not Reported	19		
Breast Fed Duration(<i>N</i>)			
Never	46	10	26
1-3 months	14	3	11
4-6 months	47	13	32
7-9 months	34	5	29
10+ months	16	5	11
Not Reported	5	1	3
Maternal Ed ^A (<i>N</i>)			
High School	26	10	11
Post High School	145	26	105
Not Reported	6	1	5
Paternal Ed(<i>N</i>)			
High School	37	9	22
Post High School	129	25	92
Not Reported	11	3	7
Maternal BMI Status(<i>N</i>)			
Severely Obese (BMI 35+)	20	8	11
Obese	18	4	13
Overweight	25	5	19
Healthy Weight	75	15	57
Underweight	4	2	2
Not Reported	35	3	19
Paternal BMI Status(<i>N</i>)			
Severely Obese (BMI 35+)	21	5	12
Obese	30	7	22
Overweight	66	15	46
Healthy Weight	51	9	34
Underweight	0	0	0
Not Reported	9	1	7

^AFisher's exact test $p < 0.05$

2 CEBQ and CFQ by LOC status

3 Fequency of Items by LOC status

4 Determinants of LOC

4.1 Step 1: Single Predictor

Confidence = 0.33

Support = 0.06 (25%, n=9)

29 rules were identified:

- 3 after controlling for multiple comparisons

	Full Sample				LOC		d	p
	Mean (SD)	Range	Yes		No			
			Mean (SD)	Range	Mean (SD)	Range		
CEBQ-FR	2.54 (0.72)	[1, 4.75]	2.78 (0.88)	[1, 4]	2.46 (0.63)	[1, 4.75]	0.46	0.044
CEBQ-EOE	2.13 (0.64)	[1, 3.8]	2.20 (0.75)	[1, 3.8]	2.10 (0.61)	[1, 3.8]	0.15	0.478
CEBQ-EF	3.78 (0.66)	[1.75, 5]	3.90 (0.63)	[2.5, 5]	3.74 (0.67)	[1.75, 5]	0.25	0.178
CEBQ-DD	2.59 (0.90)	[1, 4.7]	2.73 (1.09)	[1, 4.7]	2.55 (0.84)	[1, 4.7]	0.20	0.350
CEBQ-SR	2.84 (0.61)	[1.4, 4.2]	2.63 (0.67)	[1.4, 4.2]	2.92 (0.57)	[1.4, 4.2]	0.49	0.019*
CEBQ-SE	2.70 (0.73)	[1, 4.75]	2.59 (0.87)	[1.25, 4.5]	2.75 (0.68)	[1.5, 4.75]	0.19	0.310
CEBQ-EUE	2.64 (0.79)	[1, 5]	2.48 (0.64)	[1.33, 3.67]	2.68 (0.84)	[1, 5]	0.25	0.129
CEBQ-FF	2.85 (0.89)	[1, 5]	3.08 (1.0)	[1.33, 5]	2.77 (0.84)	[1, 5]	0.35	0.099 [†]
CFQ-PR	4.02 (0.71)	[2, 5]	4 (0.74)	[2, 5]	4.02 (0.68)	[2.33, 5]	0.02	0.910
CFQ-PPW	3.16 (0.49)	[2, 5]	3.22 (0.57)	[2.25, 5]	3.14 (0.48)	[2, 4.5]	0.15	0.460
CFQ-PCW	2.92 (0.37)	[1.4, 4.2]	3.01 (0.33)	[2, 4]	2.92 (0.33)	[2, 4.2]	0.29	0.137
CFQ-CONC	2.84 (1.69)	[1, 5]	2.64 (1.73)	[1, 5]	2.88 (1.68)	[1, 5]	0.18	0.350
CFQ-REST	3.19 (0.88)	[1,4.88]	3.14 (0.94)	[1.25, 4.63]	3.24 (0.87)	[1, 4.88]	0.12	0.563
CFQ-PE	2.16 (0.90)	[1, 4.5]	1.86 (0.77)	[1, 4.25]	2.24 (0.89)	[1, 4.5]	0.43	0.018*
CFQ-MON	3.68 (0.90)	[1, 5]	3.85 (0.95)	[2, 5]	3.61 (0.89)	[1, 5]	0.26	0.194

All but CFQ-PR have 2 missing in full sample; CFQ-PR has 16 missing in full sample.

- 25 were significant uncorrected

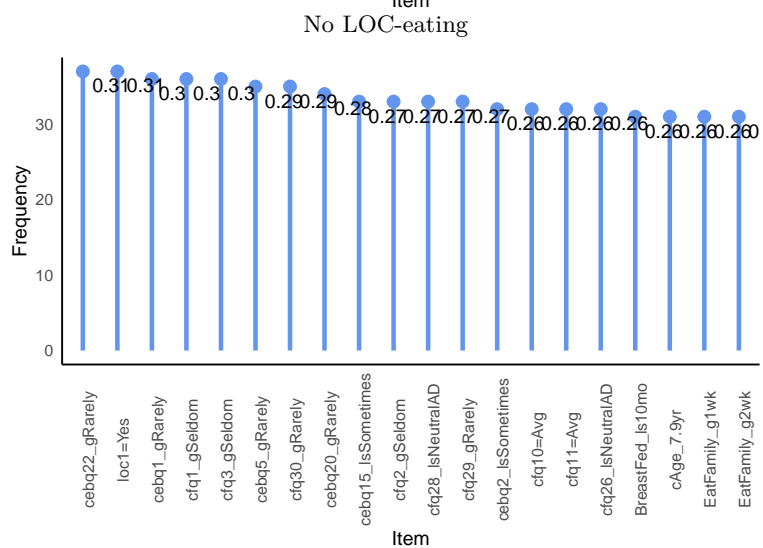
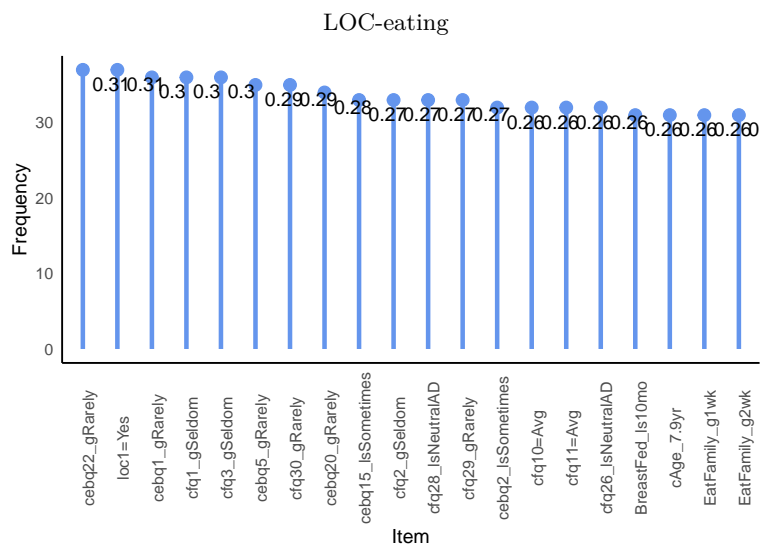


Table 1: Determinants of LOC-Single Predictors

LHS	count	support	confidence	lift	oddsRatio	fisher.p	fisher.padj_holm	Cat
cBMI_OWOB	15	0.095	0.357	1.525	2.374	0.026	0.350	cBMI_OWOB
cebq10_gSometimesRev	14	0.089	0.350	1.495	2.224	0.040	0.357	gS_FF
cebq10_lsSometimesRev	14	0.089	0.350	1.495	2.224	0.040	0.357	lsS_FF
cebq12_gRarely	20	0.127	0.364	1.553	2.891	0.005	0.126	gR_FR
cebq12=Sometimes	13	0.082	0.371	1.586	2.438	0.029	0.350	sFR
cebq14_gSometimes	11	0.070	0.367	1.566	2.271	0.052	0.357	gS_FR
cebq19_gSometimes	10	0.063	0.435	1.857	3.077	0.018	0.291	gS_FR
cebq26_lsSometimes	19	0.120	0.333	1.423	2.306	0.023	0.345	lsS_SR
cebq27_gSometimes	13	0.082	0.371	1.586	2.438	0.029	0.350	gS_EOE
cebq31_gSometimes	10	0.063	0.345	1.473	1.988	0.097	0.357	gS_DD
cebq33_gSometimes	17	0.108	0.378	1.613	2.823	0.008	0.168	gS_FF
cebq33=Often	13	0.082	0.371	1.586	2.438	0.029	0.350	gFF
cebq34_gRarely	16	0.101	0.457	1.952	4.090	0.001	0.021	gR_FR
cebq7_gSometimes	17	0.108	0.386	1.650	2.959	0.006	0.136	gS_FF
cebq8_lsSometimes	14	0.089	0.350	1.495	2.224	0.040	0.357	lsS_SE
cfq20=Agree	19	0.120	0.365	1.560	2.815	0.006	0.149	gRest
cfq23_lsNeutralAD	15	0.095	0.429	1.830	3.443	0.003	0.078	lsN_Rest
cfq24_lsNeutralAD	12	0.076	0.364	1.553	2.286	0.044	0.357	lsN_Rest
cfq25_gNeutralAD	10	0.063	0.345	1.473	1.988	0.097	0.357	gN_PE
cfq26=Disagree	28	0.177	0.400	1.708	5.852	0.000	0.000	lsPE
cfq27=Disagree	14	0.089	0.341	1.458	2.119	0.050	0.357	lsPE
cfq28=Disagree	26	0.165	0.361	1.542	3.854	0.001	0.015	lsPE
cfq29=Always	15	0.095	0.395	1.686	2.905	0.008	0.168	gMon
cfq30=Always	13	0.082	0.394	1.682	2.735	0.016	0.291	gMon
cfq31=Always	11	0.070	0.440	1.879	3.234	0.011	0.208	gMon
cfq6_gOW	13	0.082	0.394	1.682	2.735	0.016	0.291	PPW_gOW
cfq6=Overwt	10	0.063	0.417	1.779	2.831	0.025	0.350	PPW_OW
mBMI_OB1.3	12	0.076	0.333	1.423	1.940	0.087	0.357	mBMI_OB1.3
mEducation_HS	10	0.063	0.476	2.033	3.704	0.008	0.168	mEducation_HS

4.1.1 Crosstable of rule categories

Table 2: Determinants of LOC-Cross Tab of Single Predictors

Cat	Freq
cBMI_OWOB	1
gFF	1
gMon	3
gN_PE	1
gR_FR	2
gRest	1
gS_DD	1
gS_EOE	1
gS_FF	3
gS_FR	2
lsN_Rest	2
lsPE	3
lsS_FF	1
lsS_SE	1
lsS_SR	1
mBMI_OB1.3	1
mEducation_HS	1
PPW_gOW	1
PPW_OW	1
sFR	1

4.2 Step 2: Multiple Predictors

Confidence = 0.50

Support = 0.08 (33%, n = 12)

48 rules were identified:

- all 48 significant after controlling for multiple comparisons

Table 3: Determinants of LOC-Multiple Predictors

	LHS2	LHS1	count	support	confidence	lift	oddsRatio	fisher.p	fisher.padj_holm	Cluster_gupta4	Cat1
∞	cebq10_gSometimesRev	cebq1_gSometimes	13	0.082	0.500	2.135	4.500	0.001	0.009	4	gS_E
	cebq10_lsSometimesRev	cebq1_gSometimes	13	0.082	0.500	2.135	4.500	0.001	0.009	4	gS_E
	cebq12_gRarely	cfq26=Disagree	16	0.101	0.500	2.135	5.000	0.000	0.005	2	lsPE
	cebq14_gRarely	cebq7_gSometimes	13	0.082	0.520	2.221	4.920	0.001	0.009	4	gS_E
	cebq14_gRarely	cfq26=Disagree	19	0.120	0.528	2.254	6.458	0.000	0.000	2	lsPE
	cebq19_gRarely	cfq26=Disagree	21	0.133	0.538	2.299	7.510	0.000	0.000	1	lsPE
	cebq26_lsSometimes	cebq19_gRarely	16	0.101	0.571	2.440	6.921	0.000	0.001	2	gR_I
	cebq26_lsSometimes	cfq26=Disagree	17	0.108	0.515	2.200	5.578	0.000	0.002	2	lsPE
	cebq26_lsSometimes	cebq12_gRarely	13	0.082	0.619	2.644	7.651	0.000	0.002	2	gR_I
	cebq27_gRarely	cfq26=Disagree	21	0.133	0.512	2.187	6.628	0.000	0.000	1	lsPE
	cebq27_gRarely	cfq27=Disagree	13	0.082	0.542	2.313	5.417	0.000	0.007	3	lsPE
	cebq27_gSometimes	cfq26=Disagree	13	0.082	0.650	2.776	8.821	0.000	0.001	2	lsPE
	cebq30_lsSometimes	cebq12_gRarely	13	0.082	0.500	2.135	4.500	0.001	0.009	4	gR_I
	cebq30_lsSometimes	cebq19_gRarely	15	0.095	0.500	2.135	4.818	0.000	0.007	3	gR_I
	cebq30_lsSometimes	cebq14_gRarely	16	0.101	0.500	2.135	5.000	0.000	0.005	4	gR_I
	cebq33_gSometimes	BreastFed_ls7mo	15	0.095	0.556	2.372	6.193	0.000	0.002	3	Breas
	cebq33_gSometimes	cebq1_gSometimes	16	0.101	0.571	2.440	6.921	0.000	0.001	2	gS_E
	cebq33_gSometimes	cfq28=Disagree	13	0.082	0.722	3.084	12.567	0.000	0.000	1	lsPE
	cebq33_gSometimes	cebq14_gRarely	13	0.082	0.520	2.221	4.920	0.001	0.009	4	gR_I
	cebq33_gSometimes	cebq22_gSometimes	13	0.082	0.565	2.414	6.013	0.000	0.005	3	gS_E
	cebq34_gRarely	cebq20_gSometimes	13	0.082	0.520	2.221	4.920	0.001	0.009	4	gS_E
	cebq34_gRarely	cfq26=Disagree	15	0.095	0.682	2.912	11.104	0.000	0.000	1	lsPE
	cebq34_gRarely	cAge_7.9yr	13	0.082	0.500	2.135	4.500	0.001	0.009	4	cAge
	cebq34_gRarely	cebq13_lsSometimes	13	0.082	0.520	2.221	4.920	0.001	0.009	4	lsS_I
	cebq34_gRarely	cfq28=Disagree	14	0.089	0.636	2.717	8.598	0.000	0.001	2	lsPE
	cebq34_gRarely	cebq22_gSometimes	15	0.095	0.500	2.135	4.818	0.000	0.007	3	gS_E
	cebq34_gRarely	cebq5_gSometimes	15	0.095	0.556	2.372	6.193	0.000	0.002	2	gS_E
	cebq34_gRarely	cebq25_lsSometimes	13	0.082	0.565	2.414	6.013	0.000	0.005	3	lsS_I
	cebq7_gSometimes	cebq1_gSometimes	15	0.095	0.577	2.464	6.818	0.000	0.001	2	gS_E
	cfq20_gNeutralAD	cebq34_gRarely	13	0.082	0.500	2.135	4.500	0.001	0.009	4	gR_I
	cfq21_lsNeutralAD	cfq20=Agree	14	0.089	0.583	2.491	6.757	0.000	0.002	2	gRest
	cfq23_lsNeutralAD	cfq14_lsNeutralCon	14	0.089	0.500	2.135	4.652	0.001	0.009	3	lsN_

Table 3: Determinants of LOC-Multiple Predictors (*continued*)

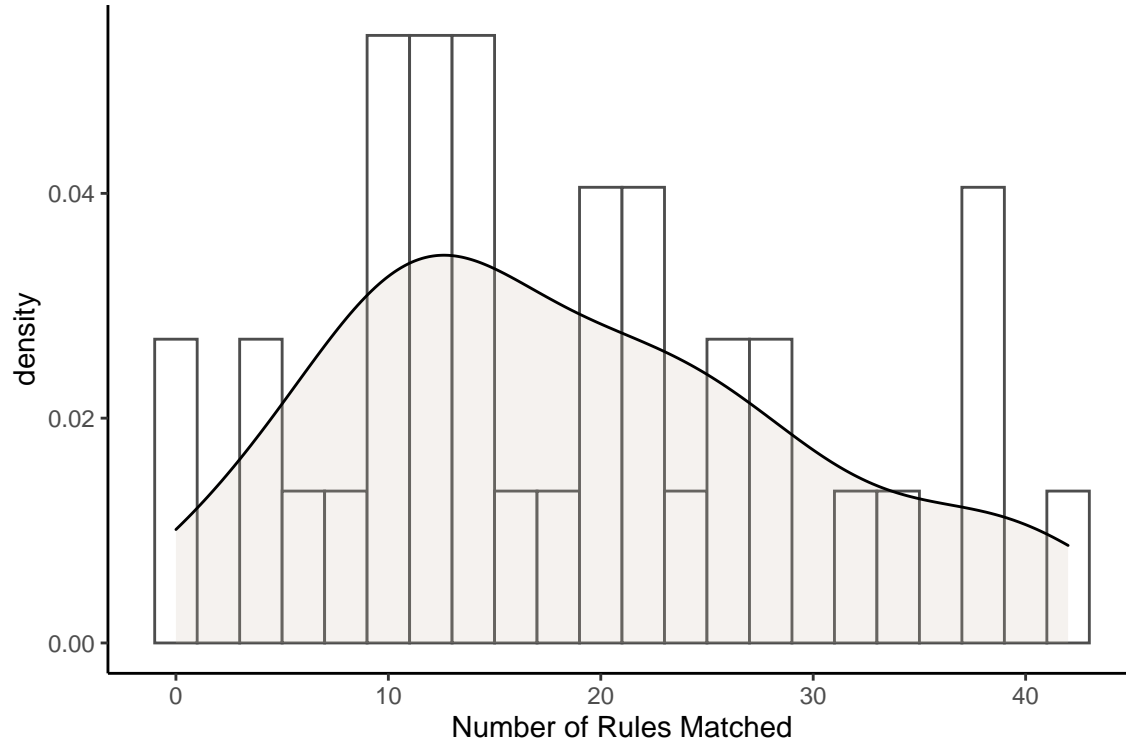
LHS2	LHS1	count	support	confidence	lift	oddsRatio	fisher.p	fisher.padj_holm	Cluster_gupta4	Cat1
cfq23_lsNeutralAD	cAge_7.9yr	14	0.089	0.519	2.214	5.057	0.000	0.007	3	cAge
cfq23_lsNeutralAD	cebq21_gRarely	13	0.082	0.565	2.414	6.013	0.000	0.005	4	gR_S
cfq23_lsNeutralAD	cfq14=Unconcerned	13	0.082	0.520	2.221	4.920	0.001	0.009	2	lsCon
cfq25_lsNeutralAD	cBMI_OWOB	14	0.089	0.500	2.135	4.652	0.001	0.009	3	cBMI
cfq26_lsNeutralAD	cebq27_gSometimes	13	0.082	0.500	2.135	4.500	0.001	0.009	4	gS_E
cfq26_lsNeutralAD	cebq34_gRarely	16	0.101	0.571	2.440	6.921	0.000	0.001	2	gR_I
cfq26_lsNeutralAD	cebq33_gSometimes	14	0.089	0.519	2.214	5.057	0.000	0.007	3	gS_F
cfq26_lsNeutralAD	cebq7_gSometimes	14	0.089	0.519	2.214	5.057	0.000	0.007	3	gS_F
cfq26=Disagree	cfq20=Agree	16	0.101	0.552	2.356	6.330	0.000	0.001	2	gRest
cfq26=Disagree	cBMI_OWOB	14	0.089	0.538	2.299	5.529	0.000	0.005	3	cBMI
cfq26=Disagree	mBMI_OBOW	13	0.082	0.500	2.135	4.500	0.001	0.009	4	mBM
cfq27_lsNeutralAD	cebq34_gRarely	14	0.089	0.667	2.847	9.913	0.000	0.000	2	gR_I
cfq28_lsNeutralAD	cebq7_gSometimes	14	0.089	0.583	2.491	6.757	0.000	0.002	2	gS_F
cfq28_lsNeutralAD	cebq27_gSometimes	13	0.082	0.520	2.221	4.920	0.001	0.009	4	gS_E
cfq28_lsNeutralAD	cebq33_gSometimes	14	0.089	0.560	2.391	6.087	0.000	0.003	3	gS_F
cfq28_lsNeutralAD	cebq34_gRarely	16	0.101	0.552	2.356	6.330	0.000	0.001	2	gR_I

4.2.1 Crosstable of rule categories

Table 4: Determinants of LOC-Cross tabs Multiple Predictors

	gN_Rest	gR_EOE	gR_FR	gS_EOE	gS_FF	lsN_PE	lsN_Rest	lsPE	lsS_FF	lsS_S
BreastFed_ls7mo	0	0	0	0	1	0	0	0	0	
cAge_7.9yr	0	0	1	0	0	0	1	0	0	
cBMI_OWOB	0	0	0	0	0	1	0	1	0	
gR_FR	1	0	0	0	1	3	0	0	0	
gR_SR	0	0	0	0	0	0	1	0	0	
gRest	0	0	0	0	0	0	1	1	0	
gS_EF	0	0	3	0	4	0	0	0	1	
gS_EOE	0	0	0	0	0	2	0	0	0	
gS_FF	0	0	1	0	0	4	0	0	0	
lsConc	0	0	0	0	0	0	1	0	0	
lsN_Conc	0	0	0	0	0	0	1	0	0	
lsPE	0	2	5	1	1	0	0	0	0	
lsS_EOE	0	0	1	0	0	0	0	0	0	
lsS_EUE	0	0	1	0	0	0	0	0	0	
mBMI_OBOW	0	0	0	0	0	0	0	1	0	

4.2.2 Endorsement of Rules



4.3 Clustering of Rules

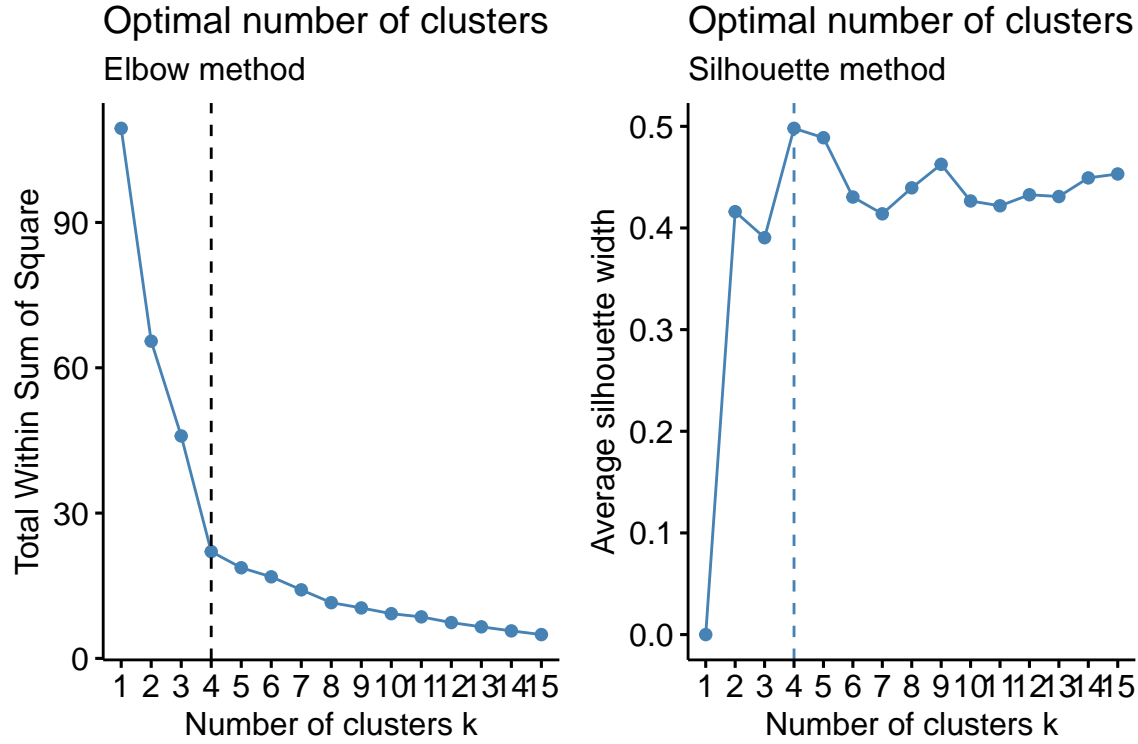


Table 5: Determinants of LOC-Cluster Metrics

measure	score_at5	method	clusters
Connectivity	0	pam	2
Dunn	0.593	pam	10
Silhouette	0.498	pam	4
APN	0	pam	4
AD	0.5054	pam	10
ADM	0	pam	4
FOM	0.0753	pam	10

Number of clusters:

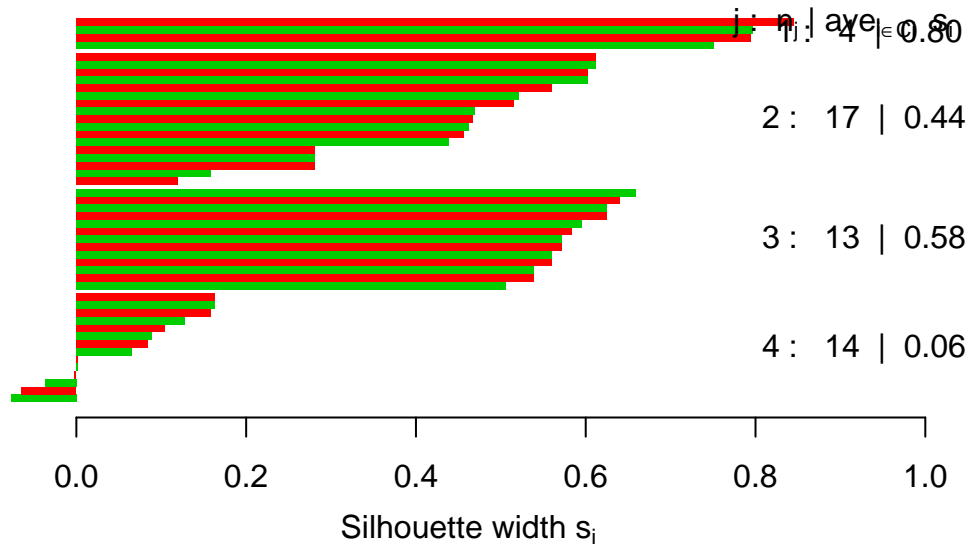
- 2: Connectivity
- 4: The within sums of square elbow of the plot, Dunn index, Average Proportion of Non-Overlap, and Average distance between centers

4.3.1 4 Cluster Solution

Silhouette plot of pam(x = dist_pruned.rules_lhs2_conf5

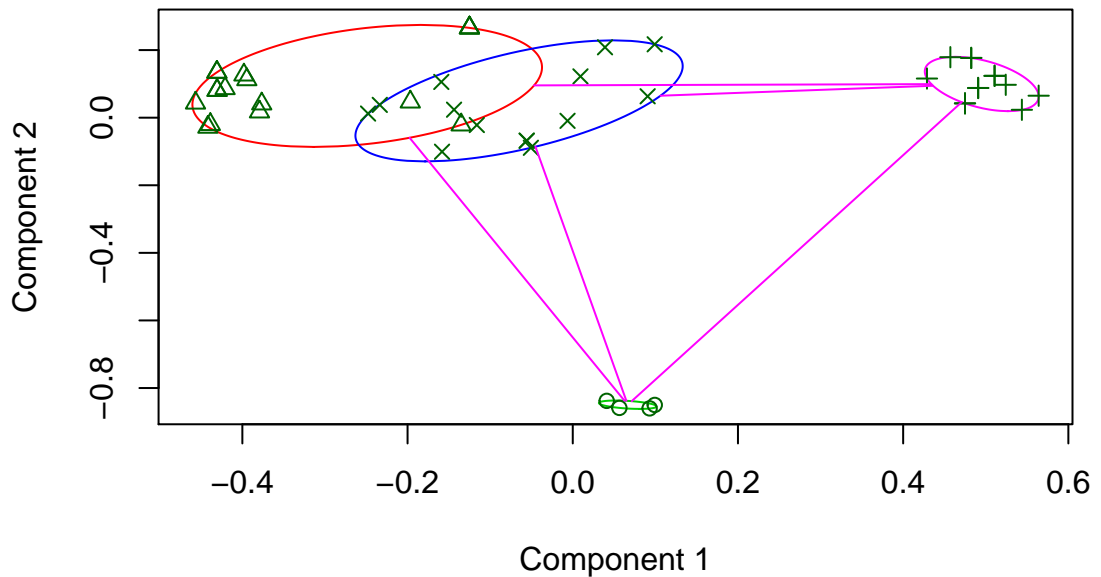
n = 48

4 clusters C_j



Average Silhouette Widths Average silhouette width : 0.4

Cluster plot, k = 2



Cluster Plot

Cluster 1

These two components explain 47.96 % of the point variability.

Table 6: Determinants of LOC-Cluster 1

	gR_EOE	gR_FR	gS_FF	rowtotals
lsPE	1	2	1	4
coltotals	1	2	1	4

Table 7: Determinants of LOC-Cluster 1 Question Frequency

LHS1	Freq.x	Freq.y
cfq26=Disagree	3	NA
cfq28=Disagree	1	NA
cebq19_gRarely	NA	1
cebq27_gRarely	NA	1
cebq33_gSometimes	NA	1
cebq34_gRarely	NA	1

Cluster 2

Table 8: Determinants of LOC-Cluster 2 Question Frequency

	gR_FR	gS_EOE	gS_FF	lsN_PE	lsN_Rest	lsPE	lsS_SR	rowtotals
gR_FR	0	0	0	3	0	0	2	5
gRest	0	0	0	0	1	1	0	2
gS_EF	1	0	2	0	0	0	0	3
gS_FF	0	0	0	1	0	0	0	1
lsConc	0	0	0	0	1	0	0	1
lsPE	3	1	0	0	0	0	1	5
coltotals	4	1	2	4	2	1	3	17

Table 9: Determinants of LOC-Cluster 2 Question Frequency

LHS1	Freq.x	Freq.y
cebq1_gSometimes	2	NA
cebq12_gRarely	1	1
cebq19_gRarely	1	NA
cebq34_gRarely	3	2
cebq5_gSometimes	1	NA
cebq7_gSometimes	1	1
cfq14=Unconcerned	1	NA
cfq20=Agree	2	NA
cfq26=Disagree	4	1
cfq28=Disagree	1	NA
cebq14_gRarely	NA	1
cebq26_lsSometimes	NA	3

Table 9: Determinants of LOC-Cluster 2 Question Frequency (*continued*)

LHS1	Freq.x	Freq.y
cebq27_gSometimes	NA	1
cebq33_gSometimes	NA	1
cfq21_lsNeutralAD	NA	1
cfq23_lsNeutralAD	NA	1
cfq26_lsNeutralAD	NA	1
cfq27_lsNeutralAD	NA	1
cfq28_lsNeutralAD	NA	2

Cluster 3

Table 10: Determinants of LOC-Cluster 3

	gR_EOE	gR_FR	gS_FF	lsN_PE	lsN_Rest	lsPE	lsS_SR	rowtotals
BreastFed_ls7mo	0	0	1	0	0	0	0	1
cAge_7.9yr	0	0	0	0	1	0	0	1
cBMI_OWOB	0	0	0	1	0	1	0	2
gR_FR	0	0	0	0	0	0	1	1
gS_EF	0	1	1	0	0	0	0	2
gS_FF	0	0	0	3	0	0	0	3
lsN_Conc	0	0	0	0	1	0	0	1
lsPE	1	0	0	0	0	0	0	1
lsS_EUE	0	1	0	0	0	0	0	1
coltotals	1	2	2	4	2	1	1	13

Table 11: Determinants of LOC-Cluster 3 Question Frequency

LHS1	Freq.x	Freq.y
BreastFed_ls7mo	1	NA
cAge_7.9yr	1	NA
cBMI_OWOB	2	NA
cebq19_gRarely	1	NA
cebq22_gSometimes	2	NA
cebq25_lsSometimes	1	NA
cebq33_gSometimes	2	2
cebq7_gSometimes	1	NA
cfq14_lsNeutralCon	1	NA
cfq27=Disagree	1	NA
cebq27_gRarely	NA	1
cebq30_lsSometimes	NA	1
cebq34_gRarely	NA	2
cfq23_lsNeutralAD	NA	2
cfq25_lsNeutralAD	NA	1
cfq26_lsNeutralAD	NA	2

Table 11: Determinants of LOC-Cluster 3 Question Frequency (*continued*)

LHS1	Freq.x	Freq.y
cfq26=Disagree	NA	1
cfq28_lsNeutralAD	NA	1

Cluster 4

Table 12: Determinants of LOC-Cluster 4

	gN_Rest	gR_FR	gS_FF	lsN_PE	lsN_Rest	lsPE	lsS_FF	lsS_SR	rowtotals
cAge_7.9yr	0	1	0	0	0	0	0	0	1
gR_FR	1	0	1	0	0	0	0	2	4
gR_SR	0	0	0	0	1	0	0	0	1
gS_EF	0	1	1	0	0	0	1	0	3
gS_EOE	0	0	0	2	0	0	0	0	2
gS_FF	0	1	0	0	0	0	0	0	1
lsS_EOE	0	1	0	0	0	0	0	0	1
mBMI_OBOW	0	0	0	0	0	1	0	0	1
coltotals	1	4	2	2	1	1	1	2	14

Table 13: Determinants of LOC-Cluster 4 Question Frequency

LHS1	Freq.x	Freq.y
cAge_7.9yr	1	NA
cebq1_gSometimes	2	NA
cebq12_gRarely	1	NA
cebq13_lsSometimes	1	NA
cebq14_gRarely	2	1
cebq20_gSometimes	1	NA
cebq21_gRarely	1	NA
cebq27_gSometimes	2	NA
cebq34_gRarely	1	3
cebq7_gSometimes	1	NA
mBMI_OBOW	1	NA
cebq10_gSometimesRev	NA	1
cebq10_lsSometimesRev	NA	1
cebq30_lsSometimes	NA	2
cebq33_gSometimes	NA	1
cfq20_gNeutralAD	NA	1
cfq23_lsNeutralAD	NA	1
cfq26_lsNeutralAD	NA	1
cfq26=Disagree	NA	1
cfq28_lsNeutralAD	NA	1

4.4 Testing Additive Effects

Subset: Contains predictors from step 1 (i.e., CFQ 26 and 28 = 'Disagree' and CEBQ 34 > 'Rarely')

22 rules were identified

Table 14: Determinants of LOC-Significant Additive

LHS2	RHS	count	support	confidence	lift	chi.sq.p	OR	OR_lowerCI	fisher.p	fisher.padj_holm
cebq12_gRarely	loc1=Yes	16	0.101	0.500	2.135	0	5.000	2.166	0.000	0.000
cebq14_gRarely	loc1=Yes	19	0.120	0.528	2.254	0	6.458	2.834	0.000	0.000
cebq19_gRarely	loc1=Yes	21	0.133	0.538	2.299	0	7.510	3.305	0.000	0.000
cebq26_lsSometimes	loc1=Yes	17	0.108	0.515	2.200	0	5.578	2.424	0.000	0.000
cebq27_gRarely	loc1=Yes	21	0.133	0.512	2.187	0	6.628	2.954	0.000	0.000
cebq27_gSometimes	loc1=Yes	13	0.082	0.650	2.776	0	8.821	3.185	0.000	0.000
cebq33_gSometimes	loc1=Yes	13	0.082	0.722	3.084	0	12.567	4.095	0.000	0.000
cebq34_gRarely	loc1=Yes	13	0.082	0.500	2.135	0	4.500	1.854	0.001	0.001
cebq34_gRarely	loc1=Yes	13	0.082	0.565	2.414	0	6.013	2.360	0.000	0.000
cebq34_gRarely	loc1=Yes	13	0.082	0.520	2.221	0	4.920	1.999	0.001	0.001
cebq34_gRarely	loc1=Yes	13	0.082	0.520	2.221	0	4.920	1.999	0.001	0.001
cebq34_gRarely	loc1=Yes	15	0.095	0.500	2.135	0	4.818	2.059	0.000	0.001
cebq34_gRarely	loc1=Yes	15	0.095	0.556	2.372	0	6.193	2.552	0.000	0.000
cebq34_gRarely	loc1=Yes	15	0.095	0.682	2.912	0	11.104	4.058	0.000	0.000
cebq34_gRarely	loc1=Yes	14	0.089	0.636	2.717	0	8.598	3.235	0.000	0.000
cfq20_gNeutralAD	loc1=Yes	13	0.082	0.500	2.135	0	4.500	1.854	0.001	0.001
cfq26_lsNeutralAD	loc1=Yes	16	0.101	0.571	2.440	0	6.921	2.864	0.000	0.000
cfq26=Disagree	loc1=Yes	14	0.089	0.538	2.299	0	5.529	2.265	0.000	0.000
cfq26=Disagree	loc1=Yes	16	0.101	0.552	2.356	0	6.330	2.656	0.000	0.000
cfq26=Disagree	loc1=Yes	13	0.082	0.500	2.135	0	4.500	1.854	0.001	0.001
cfq27_lsNeutralAD	loc1=Yes	14	0.089	0.667	2.847	0	9.913	3.604	0.000	0.000
cfq28_lsNeutralAD	loc1=Yes	16	0.101	0.552	2.356	0	6.330	2.656	0.000	0.000

CEBQ 34 > Rarely (FR) + CFQ 26 = Dissagree (PE)

Table 15: Determinants of LOC: CEBQ 34 > Rarely (FR) + CFQ 26 = Dissagree (PE)

	Beta	SE	z	P	\hat{e}_{beta}	\hat{e}_{se}
cebq34_gRarelyTRUE	-0.633	1.108	-0.571	0.568	0.531	3.029
cfq26_DisagreeTRUE	0.862	0.500	1.724	0.085	2.368	1.649
cebq34_gRarelyTRUE:cfq26_DisagreeTRUE	2.385	1.242	1.920	0.055	10.860	3.463

CFQ 28 = Disagree (PE) + CEBQ 33 > Sometimes (FF)

Table 16: Determinants of LOC: CFQ 28 = Disagree (PE) + CEBQ 33 > Sometimes (FF)

	Beta	SE	z	P	\hat{e}_{beta}	\hat{e}_{se}
cebq33_gSometimesTRUE	0.185	0.686	0.269	0.788	1.203	1.986
cfq28_DisagreeTRUE	0.514	0.525	0.980	0.327	1.672	1.690
cebq33_gSometimesTRUE:cfq28_DisagreeTRUE	1.999	0.925	2.162	0.031	7.384	2.521

CEBQ 34 > Rarely (FR) + CFQ 27 < Neutral (PE)

Table 17: Determinants of LOC: CEBQ 34 > Rarely (FR) + CFQ 27 < Neutral (PE)

	Beta	SE	z	P	\hat{e}_{beta}	\hat{e}_{se}
cebq34_gRarelyTRUE	-0.811	0.835	-0.971	0.332	0.444	2.306
cfq27_lsNeutralADTRUE	-0.811	0.494	-1.641	0.101	0.444	1.639
cebq34_gRarelyTRUE:cfq27_lsNeutralADTRUE	3.296	1.021	3.229	0.001	27.000	2.775

5 Determinants of No LOC-eating

5.1 Step 1: Single Predictor

Confidence = 0.33

Support = 0.19 (25%, n = 30)

Identified 107 rules, 1 of which was significant uncorrected and 1 after correction (13 were significant uncorrected)

Table 18: Determinants of No LOC-Single Predictors

LHS	count	support	confidence	lift	oddsRatio	OR_lowerCI	OR_upperCI	fisher.p	fisher
cBMI=HW	93	0.589	0.809	1.056	2.265	1.038	4.943	0.033	
cebq14_lsSometimes	71	0.449	0.835	1.091	2.333	1.095	4.971	0.021	
cebq14=Rarely	53	0.335	0.855	1.116	2.425	1.055	5.575	0.025	
cebq19_lsSometimes	74	0.468	0.822	1.074	2.066	0.980	4.358	0.042	

Table 18: Determinants of No LOC-Single Predictors (*continued*)

LHS	count	support	confidence	lift	oddsRatio	OR_lowerCI	OR_upperCI	fisher.p	fisher
cebq19=Rarely	50	0.316	0.847	1.107	2.191	0.952	5.043	0.045	
cebq26_gRarely	83	0.525	0.822	1.073	2.306	1.089	4.882	0.023	
cebq27=Rarely	37	0.234	0.881	1.150	2.819	1.018	7.808	0.029	
cebq30_gRarely	76	0.481	0.835	1.091	2.477	1.167	5.258	0.014	
cebq34_lsSometimes	102	0.646	0.829	1.083	4.090	1.812	9.233	0.001	
cebq34=Rarely	61	0.386	0.847	1.106	2.403	1.091	5.294	0.021	
cebq7=Sometimes	52	0.329	0.881	1.151	3.230	1.316	7.928	0.006	
cebq8_gRarely	94	0.595	0.803	1.049	2.119	0.961	4.671	0.050	
cebq8=Sometimes	61	0.386	0.836	1.091	2.118	0.976	4.598	0.041	

Category frequencies for uncorrected rules

Table 19: Determinants of No LOC-Cross Tab Single Predictors

Cat	Freq
gMon	1
gR_SR	1
lsEOE	1
lsFR	1
lsS_FR	1
PPW_UW	1
sFF	1
sSE	1
sSR	1

5.2 Step 2: Multiple Predictors

Confidence = 0.50

Support = 0.255 (33%, n = 40)

Found 1335 rules, No significant rules after correction. There were 330 uncorrected were significant

Table 20: Determinants of No LOC

	LHS2	LHS1	count	support	confidence	lift	oddsRatio	OR_lowerCI	OR_upperCI
1	BreastFed_ls10mo	cBMI=HW	83	0.525	0.822	1.073	2.306	1.089	4.882
2	cBMI=HW	cAge_8.10yr	65	0.411	0.844	1.102	2.418	1.111	5.311
3	cBMI=HW	cAge_9.10yr	43	0.272	0.860	1.123	2.363	0.952	5.043
4	cBMI=HW	cAge_9.12yr	51	0.323	0.879	1.148	3.122	1.271	5.611
5	cebq1_gRarely	cebq26=Sometimes	58	0.367	0.841	1.098	2.176	0.981	5.111
6	cebq1_gRarely	cebq7=Sometimes	52	0.329	0.897	1.171	3.894	1.511	15.511
7	cebq1_gRarely	income_g75K	70	0.443	0.824	1.075	2.013	0.952	5.043

Table 20: Determinants of No LOC-M

	LHS2	LHS1	count	support	confidence	lift	oddsRatio	OR_lowerC
8	cebq1_gRarely	cBMI=HW	91	0.576	0.812	1.061	2.311	1.07
9	cebq1_gRarely	income_g50K	70	0.443	0.824	1.075	2.013	0.95
10	cebq1_gRarely	cebq8=Sometimes	60	0.380	0.845	1.103	2.325	1.05
11	cebq1_gSometimes	cebq8=Sometimes	46	0.291	0.852	1.112	2.223	0.93
12	cebq1_gSometimes	cebq14=Rarely	41	0.259	0.872	1.139	2.648	1.02
13	cebq11_gRarely	income_g75K	60	0.380	0.833	1.088	2.049	0.94
14	cebq11_gRarely	cebq23=Sometimes	51	0.323	0.864	1.129	2.641	1.11
15	cebq11_gRarely	income_g50K	60	0.380	0.833	1.088	2.049	0.94
16	cebq13_lsSometimes	cebq8=Sometimes	53	0.335	0.855	1.116	2.425	1.05
17	cebq13_lsSometimes	cebq29=Rarely	55	0.348	0.846	1.105	2.250	1.00
18	cebq13_lsSometimes	cebq15=Rarely	54	0.342	0.844	1.102	2.176	0.96
19	cebq13_lsSometimes	cebq34=Rarely	52	0.329	0.867	1.132	2.732	1.15
20	cebq13_lsSometimes	cebq8_gRarely	85	0.538	0.825	1.078	2.492	1.17
21	cebq14_lsSometimes	income_g50K	41	0.259	0.872	1.139	2.648	1.02
22	cebq14_lsSometimes	dEducation_gHS	46	0.291	0.852	1.112	2.223	0.93
23	cebq14_lsSometimes	BreastFed_least4mo	47	0.297	0.870	1.137	2.722	1.10
24	cebq14_lsSometimes	income_g75K	41	0.259	0.872	1.139	2.648	1.02
25	cebq14_lsSometimes	BreastFed_ls10mo	64	0.405	0.853	1.114	2.654	1.20
26	cebq14_lsSometimes	mEducation_gHS	54	0.342	0.857	1.119	2.507	1.09
27	cebq14_lsSometimes	cebq1_gRarely	69	0.437	0.841	1.099	2.450	1.14
28	cebq14_lsSometimes	cebq13=Rarely	42	0.266	0.875	1.143	2.747	1.06
29	cebq14_lsSometimes	cAge_8.10yr	47	0.297	0.855	1.116	2.302	0.97
30	cebq14_lsSometimes	cebq7_gRarely	46	0.291	0.868	1.133	2.629	1.06
31	cebq14_lsSometimes	cebq5_gRarely	69	0.437	0.852	1.112	2.764	1.27
32	cebq14_lsSometimes	cBMI=HW	62	0.392	0.838	1.094	2.189	1.00
33	cebq14_lsSometimes	cebq8_gRarely	58	0.367	0.853	1.114	2.486	1.10
34	cebq14_lsSometimes	cebq3_gRarelyRev	55	0.348	0.846	1.105	2.250	1.00
35	cebq14=Rarely	BreastFed_ls10mo	48	0.304	0.873	1.140	2.818	1.14
36	cebq15_lsSometimes	cebq7=Sometimes	46	0.291	0.885	1.155	3.169	1.22
37	cebq15_lsSometimes	cebq8=Sometimes	55	0.348	0.873	1.140	3.021	1.27
38	cebq15_lsSometimes	cebq26=Sometimes	53	0.335	0.841	1.099	2.104	0.93
39	cebq15_lsSometimes	cebq8_gRarely	87	0.551	0.821	1.072	2.424	1.13
40	cebq15=Rarely	cebq13=Rarely	53	0.335	0.855	1.116	2.425	1.05
41	cebq15=Rarely	cBMI=HW	48	0.304	0.857	1.119	2.384	1.00
42	cebq17_gRarely	cBMI=HW	72	0.456	0.828	1.081	2.155	1.01
43	cebq17_gRarely	cfq6=Avg	60	0.380	0.833	1.088	2.049	0.94
44	cebq17_gRarely	income_g50K	62	0.392	0.861	1.124	2.837	1.26
45	cebq17_gRarely	cebq3_gRarelyRev	65	0.411	0.833	1.088	2.143	0.99
46	cebq17_gRarely	cebq23=Sometimes	43	0.272	0.860	1.123	2.363	0.95
47	cebq17_gRarely	income_g75K	62	0.392	0.861	1.124	2.837	1.26
48	cebq19_lsSometimes	cAge_9.12yr	42	0.266	0.875	1.143	2.747	1.06
49	cebq19_lsSometimes	cebq14_lsSometimes	58	0.367	0.866	1.130	2.864	1.24
50	cebq19_lsSometimes	income_g50K	46	0.291	0.885	1.155	3.169	1.22
51	cebq19_lsSometimes	income_g75K	46	0.291	0.885	1.155	3.169	1.22

Table 20: Determinants of No LOC-M

	LHS2	LHS1	count	support	confidence	lift	oddsRatio	OR_lowerC
52	cebq19_lsSometimes	cfq9=Avg	54	0.342	0.844	1.102	2.176	0.96
53	cebq19_lsSometimes	cebq14=Rarely	42	0.266	0.875	1.143	2.747	1.06
54	cebq19_lsSometimes	cebq1_gRarely	71	0.449	0.826	1.078	2.083	0.98
55	cebq19_lsSometimes	cebq5_gRarely	70	0.443	0.833	1.088	2.255	1.05
56	cebq19_lsSometimes	BreastFed_ls10mo	67	0.424	0.827	1.080	2.038	0.95
57	cebq19_lsSometimes	cfq8=Avg	50	0.316	0.847	1.107	2.191	0.95
58	cebq19_lsSometimes	cebq8_gRarely	60	0.380	0.833	1.088	2.049	0.94
59	cebq19_lsSometimes	cebq29=Rarely	43	0.272	0.935	1.221	6.248	1.81
60	cebq19=Rarely	BreastFed_ls10mo	46	0.291	0.868	1.133	2.629	1.06
61	cebq2_lsSometimes	cebq29=Rarely	60	0.380	0.857	1.119	2.656	1.18
62	cebq2_lsSometimes	cebq8=Sometimes	55	0.348	0.873	1.140	3.021	1.27
63	cebq2_lsSometimes	cebq7=Sometimes	46	0.291	0.920	1.201	5.060	1.68
64	cebq2_lsSometimes	cebq33=Sometimes	44	0.278	0.863	1.127	2.449	0.99
65	cebq20_gRarely	cebq14=Rarely	52	0.329	0.867	1.132	2.732	1.15
66	cebq20_gRarely	cebq8=Sometimes	58	0.367	0.853	1.114	2.486	1.10
67	cebq20_gRarely	cebq14_lsSometimes	64	0.405	0.853	1.114	2.654	1.20
68	cebq20_gRarely	cBMI=HW	86	0.544	0.819	1.070	2.328	1.09
69	cebq20_gRarely	cebq19_lsSometimes	65	0.411	0.833	1.088	2.143	0.99
70	cebq21_gRarely	cebq7=Sometimes	41	0.259	0.891	1.164	3.280	1.18
71	cebq21_gRarely	income_g75K	59	0.373	0.855	1.117	2.569	1.14
72	cebq21_gRarely	cebq15=Rarely	51	0.323	0.864	1.129	2.641	1.11
73	cebq21_gRarely	cebq29=Rarely	49	0.310	0.860	1.123	2.467	1.04
74	cebq21_gRarely	cebq34=Rarely	49	0.310	0.907	1.185	4.356	1.58
75	cebq21_gRarely	income_g50K	59	0.373	0.855	1.117	2.569	1.14
76	cebq22_gSometimes	cebq8=Sometimes	46	0.291	0.852	1.112	2.223	0.93
77	cebq22=Often	cebq8=Sometimes	41	0.259	0.872	1.139	2.648	1.02
78	cebq23_gRarely	cAge_9.12yr	45	0.285	0.865	1.130	2.538	1.03
79	cebq23_gRarely	cebq34=Rarely	42	0.266	0.894	1.167	3.403	1.23
80	cebq23=Sometimes	dEducation_gHS	43	0.272	0.878	1.146	2.848	1.10
81	cebq23=Sometimes	mEducation_gHS	47	0.297	0.870	1.137	2.722	1.10
82	cebq23=Sometimes	BreastFed_ls10mo	50	0.316	0.877	1.145	3.018	1.22
83	cebq25_gRarely	cebq23_gRarely	45	0.285	0.865	1.130	2.538	1.03
84	cebq25_gRarely	cebq8_gRarely	46	0.291	0.852	1.112	2.223	0.93
85	cebq26_gRarely	cebq15=Rarely	46	0.291	0.920	1.201	5.060	1.68
86	cebq26_gRarely	cebq34=Rarely	42	0.266	0.913	1.192	4.386	1.45
87	cebq26_gRarely	cebq7_gRarely	57	0.361	0.851	1.111	2.405	1.07
88	cebq26_gRarely	cAge_8.10yr	58	0.367	0.853	1.114	2.486	1.10
89	cebq26_gRarely	cebq1_gRarely	80	0.506	0.825	1.077	2.296	1.08
90	cebq26_gRarely	cfq5=Avg	53	0.335	0.841	1.099	2.104	0.93
91	cebq26_gRarely	cAge_9.12yr	43	0.272	0.860	1.123	2.363	0.95
92	cebq26_gRarely	cebq2=Rarely	41	0.259	0.891	1.164	3.280	1.18
93	cebq26_gRarely	cebq20_gRarely	77	0.487	0.837	1.093	2.567	1.20
94	cebq26_gRarely	cebq23=Sometimes	44	0.278	0.863	1.127	2.449	0.99
95	cebq26_gRarely	dEducation_gHS	57	0.361	0.838	1.095	2.105	0.95

Table 20: Determinants of No LOC-M

	LHS2	LHS1	count	support	confidence	lift	oddsRatio	OR_lowerC
96	cebq26_gRarely	cebq23_gRarely	58	0.367	0.853	1.114	2.486	1.10
97	cebq26_gRarely	income_g50K	50	0.316	0.893	1.166	3.638	1.41
98	cebq26_gRarely	cebq13=Rarely	52	0.329	0.852	1.113	2.345	1.01
99	cebq26_gRarely	mEducation_gHS	66	0.418	0.846	1.105	2.500	1.15
100	cebq26_gRarely	cebq15_lsSometimes	77	0.487	0.828	1.081	2.297	1.08
101	cebq26_gRarely	cebq6_gRarely	57	0.361	0.851	1.111	2.405	1.07
102	cebq26_gRarely	cebq11_gRarely	70	0.443	0.824	1.075	2.013	0.95
103	cebq26_gRarely	income_g75K	50	0.316	0.893	1.166	3.638	1.41
104	cebq26_gRarely	cebq5_gRarely	80	0.506	0.833	1.088	2.561	1.20
105	cebq26_gRarely	cebq25_gRarely	41	0.259	0.872	1.139	2.648	1.02
106	cebq26_gRarely	cebq17=Sometimes	42	0.266	0.894	1.167	3.403	1.23
107	cebq26_gRarely	cebq8_gRarely	70	0.443	0.824	1.075	2.013	0.95
108	cebq26_gRarely	BreastFed_ls10mo	76	0.481	0.835	1.091	2.477	1.16
109	cebq26_gRarely	cebq2_lsSometimes	76	0.481	0.826	1.079	2.217	1.05
110	cebq26_gRarely	cebq29=Rarely	41	0.259	0.911	1.190	4.228	1.40
111	cebq26_gRarely	cBMI=HW	65	0.411	0.833	1.088	2.143	0.99
112	cebq26_gRarely	cebq9_gRarely	44	0.278	0.863	1.127	2.449	0.99
113	cebq26_gRarely	cebq17_gRarely	69	0.437	0.831	1.086	2.180	1.02
114	cebq26=Sometimes	cBMI=HW	43	0.272	0.860	1.123	2.363	0.95
115	cebq26=Sometimes	mEducation_gHS	48	0.304	0.873	1.140	2.818	1.14
116	cebq28_gRarely	cebq14_lsSometimes	52	0.329	0.852	1.113	2.345	1.01
117	cebq28_gRarely	cebq26_gRarely	65	0.411	0.833	1.088	2.143	0.99
118	cebq28_gRarely	cBMI=HW	77	0.487	0.828	1.081	2.297	1.08
119	cebq28_gRarely	cebq26=Sometimes	47	0.297	0.855	1.116	2.302	0.97
120	cebq28_gRarely	cebq8=Sometimes	52	0.329	0.867	1.132	2.732	1.15
121	cebq28_gSometimes	cebq26_gRarely	41	0.259	0.911	1.190	4.228	1.40
122	cebq28_gSometimes	cebq21_gRarely	46	0.291	0.868	1.133	2.629	1.06
123	cebq28_gSometimes	cBMI=HW	44	0.278	0.863	1.127	2.449	0.99
124	cebq29_lsSometimes	cebq19_lsSometimes	56	0.354	0.848	1.108	2.326	1.03
125	cebq29_lsSometimes	cebq10=Sometimes	44	0.278	0.863	1.127	2.449	0.99
126	cebq29_lsSometimes	income_g50K	50	0.316	0.862	1.126	2.553	1.07
127	cebq29_lsSometimes	cebq27_lsSometimes	45	0.285	0.865	1.130	2.538	1.03
128	cebq29_lsSometimes	income_g75K	50	0.316	0.862	1.126	2.553	1.07
129	cebq29_lsSometimes	cBMI=HW	63	0.399	0.863	1.127	2.933	1.30
130	cebq29_lsSometimes	cebq3_gRarelyRev	55	0.348	0.859	1.122	2.593	1.12
131	cebq29=Rarely	cAge_8.10yr	45	0.285	0.865	1.130	2.538	1.03
132	cebq29=Rarely	cBMI=HW	49	0.310	0.907	1.185	4.356	1.58
133	cebq29=Rarely	BreastFed_least4mo	41	0.259	0.891	1.164	3.280	1.18
134	cebq29=Rarely	mEducation_gHS	49	0.310	0.860	1.123	2.467	1.04
135	cebq3_gRarelyRev	cebq29=Rarely	42	0.266	0.933	1.219	6.025	1.74
136	cebq3_gRarelyRev	income_g50K	52	0.329	0.852	1.113	2.345	1.01
137	cebq3_gRarelyRev	income_g75K	52	0.329	0.852	1.113	2.345	1.01
138	cebq3_gRarelyRev	cAge_9.12yr	41	0.259	0.872	1.139	2.648	1.02
139	cebq3_gRarelyRev	BreastFed_ls10mo	73	0.462	0.830	1.083	2.231	1.05

Table 20: Determinants of No LOC-M

	LHS2	LHS1	count	support	confidence	lift	oddsRatio	OR_lowerC
140	cebq3_gRarelyRev	cebq15=Rarely	41	0.259	0.872	1.139	2.648	1.02
141	cebq3_gRarelyRev	cebq13=Rarely	51	0.323	0.850	1.110	2.267	0.98
142	cebq30_gRarely	cebq4_gRarelyRev	58	0.367	0.841	1.098	2.176	0.98
143	cebq30_gRarely	cebq5_gRarely	73	0.462	0.849	1.108	2.808	1.30
144	cebq30_gRarely	cebq23=Sometimes	41	0.259	0.872	1.139	2.648	1.02
145	cebq30_gRarely	cebq26_gRarely	58	0.367	0.853	1.114	2.486	1.10
146	cebq30_gRarely	cebq20_gRarely	68	0.430	0.840	1.096	2.369	1.10
147	cebq30_gRarely	cebq15=Rarely	45	0.285	0.918	1.199	4.885	1.62
148	cebq30_gRarely	cebq23_gRarely	55	0.348	0.859	1.122	2.593	1.12
149	cebq30_gRarely	cebq13_lsSometimes	66	0.418	0.835	1.091	2.215	1.03
150	cebq30_gRarely	cebq3_gRarelyRev	53	0.335	0.841	1.099	2.104	0.93
151	cebq30_gRarely	cebq1_gRarely	75	0.475	0.843	1.100	2.679	1.25
152	cebq30_gRarely	BreastFed_ls10mo	65	0.411	0.855	1.117	2.744	1.24
153	cebq30_gRarely	cebq8_gRarely	62	0.392	0.849	1.109	2.484	1.12
154	cebq30_gRarely	income_g50K	50	0.316	0.893	1.166	3.638	1.41
155	cebq30_gRarely	cebq20_gSometimes	41	0.259	0.872	1.139	2.648	1.02
156	cebq30_gRarely	cBMI=HW	61	0.386	0.871	1.138	3.163	1.37
157	cebq30_gRarely	cebq2=Rarely	42	0.266	0.875	1.143	2.747	1.06
158	cebq30_gRarely	cebq15_lsSometimes	71	0.449	0.845	1.104	2.622	1.21
159	cebq30_gRarely	cfq6=Avg	48	0.304	0.889	1.161	3.397	1.31
160	cebq30_gRarely	cebq2_lsSometimes	70	0.443	0.843	1.101	2.534	1.17
161	cebq30_gRarely	income_g75K	50	0.316	0.893	1.166	3.638	1.41
162	cebq30_gRarely	cebq25_gRarely	42	0.266	0.913	1.192	4.386	1.45
163	cebq30_gRarely	cAge_8.10yr	54	0.342	0.871	1.137	2.922	1.23
164	cebq30_gRarely	cebq28_gRarely	62	0.392	0.838	1.094	2.189	1.00
165	cebq30_gRarely	dBMI_OBOW	53	0.335	0.841	1.099	2.104	0.93
166	cebq30_gRarely	cebq21_gRarely	61	0.386	0.836	1.091	2.118	0.97
167	cebq30_gRarely	cfq5=Avg	53	0.335	0.869	1.135	2.825	1.19
168	cebq30_gRarely	cebq29_lsSometimes	46	0.291	0.852	1.112	2.223	0.93
169	cebq30_gRarely	cebq6_gRarely	52	0.329	0.852	1.113	2.345	1.01
170	cebq31_lsSometimes	cebq19_lsSometimes	54	0.342	0.844	1.102	2.176	0.96
171	cebq31_lsSometimes	cebq3_gRarelyRev	54	0.342	0.857	1.119	2.507	1.09
172	cebq31_lsSometimes	income_g75K	48	0.304	0.857	1.119	2.384	1.00
173	cebq31_lsSometimes	mEducation_gHS	62	0.392	0.838	1.094	2.189	1.00
174	cebq31_lsSometimes	cBMI=HW	61	0.386	0.859	1.122	2.745	1.22
175	cebq31_lsSometimes	income_g50K	48	0.304	0.857	1.119	2.384	1.00
176	cebq31_lsSometimes	cebq27_lsSometimes	44	0.278	0.863	1.127	2.449	0.99
177	cebq31_lsSometimes	cebq30_gRarely	43	0.272	0.860	1.123	2.363	0.95
178	cebq31=Rarely	cBMI=HW	42	0.266	0.875	1.143	2.747	1.06
179	cebq32_gRarelyRev	cebq7=Sometimes	45	0.285	0.882	1.152	3.059	1.18
180	cebq32_gRarelyRev	cebq26=Sometimes	46	0.291	0.868	1.133	2.629	1.06
181	cebq33_lsSometimes	BreastFed_ls10mo	43	0.272	0.878	1.146	2.848	1.10
182	cebq34_lsSometimes	cebq14_lsSometimes	67	0.424	0.882	1.151	3.860	1.68
183	cebq34_lsSometimes	cebq18_gRarely	43	0.272	0.896	1.170	3.528	1.28

Table 20: Determinants of No LOC-M

	LHS2	LHS1	count	support	confidence	lift	oddsRatio	OR_lowerC
184	cebq34_lsSometimes	cebq23=Sometimes	45	0.285	0.882	1.152	3.059	1.18
185	cebq34_lsSometimes	cebq23_gRarely	60	0.380	0.857	1.119	2.656	1.18
186	cebq34_lsSometimes	cAge_8.10yr	73	0.462	0.859	1.121	3.168	1.45
187	cebq34_lsSometimes	BreastFed_least4mo	67	0.424	0.848	1.107	2.585	1.19
188	cebq34_lsSometimes	cebq17=Sometimes	45	0.285	0.865	1.130	2.538	1.03
189	cebq34_lsSometimes	cBMI=HW	80	0.506	0.851	1.111	3.206	1.49
190	cebq34_lsSometimes	cebq30_gRarely	61	0.386	0.859	1.122	2.745	1.22
191	cebq34_lsSometimes	cAge_8.9yr	53	0.335	0.841	1.099	2.104	0.93
192	cebq34_lsSometimes	cebq1_gRarely	99	0.627	0.832	1.086	3.825	1.72
193	cebq34_lsSometimes	cebq19_lsSometimes	71	0.449	0.835	1.091	2.333	1.09
194	cebq34_lsSometimes	cebq6_lsSometimes	41	0.259	0.872	1.139	2.648	1.02
195	cebq34_lsSometimes	cebq15=Rarely	52	0.329	0.897	1.171	3.894	1.51
196	cebq34_lsSometimes	cebq28_gRarely	78	0.494	0.839	1.095	2.660	1.25
197	cebq34_lsSometimes	cebq19=Rarely	48	0.304	0.873	1.140	2.818	1.14
198	cebq34_lsSometimes	cebq7=Sometimes	42	0.266	0.955	1.246	9.304	2.13
199	cebq34_lsSometimes	cebq4_gRarelyRev	71	0.449	0.845	1.104	2.622	1.21
200	cebq34_lsSometimes	cebq31_lsSometimes	70	0.443	0.864	1.128	3.244	1.46
201	cebq34_lsSometimes	cebq31=Rarely	49	0.310	0.891	1.163	3.516	1.36
202	cebq34_lsSometimes	cebq15_lsSometimes	93	0.589	0.830	1.084	3.147	1.45
203	cebq34_lsSometimes	cebq20_gRarely	93	0.589	0.838	1.094	3.506	1.62
204	cebq34_lsSometimes	cebq7_gRarely	66	0.418	0.835	1.091	2.215	1.03
205	cebq34_lsSometimes	cebq8_gRarely	81	0.513	0.862	1.125	3.738	1.72
206	cebq34_lsSometimes	cebq10=Sometimes	49	0.310	0.860	1.123	2.467	1.04
207	cebq34_lsSometimes	cebq13=Rarely	62	0.392	0.873	1.140	3.269	1.42
208	cebq34_lsSometimes	cebq5_gRarely	97	0.614	0.836	1.092	3.829	1.74
209	cebq34_lsSometimes	cebq29=Rarely	55	0.348	0.902	1.177	4.306	1.67
210	cebq34_lsSometimes	cebq13_lsSometimes	92	0.582	0.836	1.092	3.349	1.55
211	cebq34_lsSometimes	cfq5=Avg	62	0.392	0.849	1.109	2.484	1.12
212	cebq34_lsSometimes	sex=Female	53	0.335	0.855	1.116	2.425	1.05
213	cebq34_lsSometimes	cebq5=Often	48	0.304	0.857	1.119	2.384	1.00
214	cebq34_lsSometimes	cebq14=Rarely	49	0.310	0.907	1.185	4.356	1.58
215	cebq34_lsSometimes	cfq30=Mostly	41	0.259	0.872	1.139	2.648	1.02
216	cebq34_lsSometimes	cebq22_gSometimes	69	0.437	0.831	1.086	2.180	1.02
217	cebq34_lsSometimes	cebq33_lsSometimes	42	0.266	0.894	1.167	3.403	1.23
218	cebq34_lsSometimes	cebq27_lsSometimes	53	0.335	0.841	1.099	2.104	0.93
219	cebq34_lsSometimes	cebq2=Rarely	46	0.291	0.868	1.133	2.629	1.06
220	cebq34_lsSometimes	dEducation_gHS	68	0.430	0.840	1.096	2.369	1.10
221	cebq34_lsSometimes	cebq17_gRarely	76	0.481	0.835	1.091	2.477	1.16
222	cebq34_lsSometimes	cebq26_gRarely	66	0.418	0.835	1.091	2.215	1.03
223	cebq34_lsSometimes	cebq24_lsSometimes	50	0.316	0.862	1.126	2.553	1.07
224	cebq34_lsSometimes	cebq29_lsSometimes	70	0.443	0.854	1.115	2.859	1.31
225	cebq34_lsSometimes	cebq9_lsSometimes	58	0.367	0.841	1.098	2.176	0.98
226	cebq34_lsSometimes	cebq8=Sometimes	50	0.316	0.862	1.126	2.553	1.07
227	cebq34_lsSometimes	cebq5_gSometimes	59	0.373	0.868	1.133	2.961	1.28

Table 20: Determinants of No LOC-M

	LHS2	LHS1	count	support	confidence	lift	oddsRatio	OR_lowerC
228	cebq34_lsSometimes	cebq21=Sometimes	52	0.329	0.852	1.113	2.345	1.01
229	cebq34_lsSometimes	income_g75K	61	0.386	0.897	1.171	4.357	1.77
230	cebq34_lsSometimes	mEducation_gHS	80	0.506	0.842	1.100	2.862	1.34
231	cebq34_lsSometimes	cebq28_gSometimes	44	0.278	0.880	1.149	2.952	1.14
232	cebq34_lsSometimes	mEducation_gAssoc	64	0.405	0.831	1.085	2.073	0.96
233	cebq34_lsSometimes	cebq3_gRarelyRev	72	0.456	0.837	1.093	2.414	1.13
234	cebq34_lsSometimes	cfq9=Avg	70	0.443	0.833	1.088	2.255	1.05
235	cebq34_lsSometimes	income_g50K	61	0.386	0.897	1.171	4.357	1.77
236	cebq34_lsSometimes	cAge_9.12yr	59	0.373	0.855	1.117	2.569	1.14
237	cebq34_lsSometimes	cebq21_gRarely	78	0.494	0.848	1.107	2.980	1.39
238	cebq34=Rarely	mEducation_gAssoc	41	0.259	0.872	1.139	2.648	1.02
239	cebq34=Rarely	dEducation_gHS	43	0.272	0.860	1.123	2.363	0.95
240	cebq34=Rarely	cBMI=HW	46	0.291	0.885	1.155	3.169	1.22
241	cebq34=Rarely	mEducation_gHS	51	0.323	0.864	1.129	2.641	1.11
242	cebq34=Rarely	dBMI_OBOW	44	0.278	0.880	1.149	2.952	1.14
243	cebq34=Rarely	cAge_8.10yr	44	0.278	0.917	1.197	4.714	1.56
244	cebq34=Rarely	cebq13=Rarely	41	0.259	0.911	1.190	4.228	1.40
245	cebq35_gRarely	cebq23_gRarely	43	0.272	0.860	1.123	2.363	0.95
246	cebq35_gRarely	cebq26_gRarely	48	0.304	0.857	1.119	2.384	1.00
247	cebq35_gRarely	cebq34_lsSometimes	51	0.323	0.927	1.211	6.011	2.00
248	cebq35_gRarely	cebq30_gRarely	44	0.278	0.880	1.149	2.952	1.14
249	cebq35_gRarely	cAge_8.10yr	46	0.291	0.852	1.112	2.223	0.93
250	cebq4_gRarelyRev	cebq29=Rarely	52	0.329	0.881	1.151	3.230	1.31
251	cebq4_gRarelyRev	income_g50K	55	0.348	0.846	1.105	2.250	1.00
252	cebq4_gRarelyRev	income_g75K	55	0.348	0.846	1.105	2.250	1.00
253	cebq4_gRarelyRev	cBMI=HW	67	0.424	0.827	1.080	2.038	0.95
254	cebq5_gRarely	cebq30=Sometimes	51	0.323	0.850	1.110	2.267	0.98
255	cebq5_gRarely	income_g75K	71	0.449	0.826	1.078	2.083	0.98
256	cebq5_gRarely	cBMI=HW	91	0.576	0.820	1.071	2.578	1.19
257	cebq5_gRarely	cebq8=Sometimes	59	0.373	0.843	1.101	2.249	1.02
258	cebq5_gRarely	cebq26=Sometimes	57	0.361	0.851	1.111	2.405	1.07
259	cebq5_gRarely	income_g50K	71	0.449	0.826	1.078	2.083	0.98
260	cebq5_gRarely	cebq7=Sometimes	50	0.316	0.893	1.166	3.638	1.41
261	cebq6_gRarely	cebq26=Sometimes	42	0.266	0.875	1.143	2.747	1.06
262	cebq6_gRarely	cebq8=Sometimes	42	0.266	0.875	1.143	2.747	1.06
263	cebq7_gRarely	income_g50K	53	0.335	0.855	1.116	2.425	1.05
264	cebq7_gRarely	income_g75K	53	0.335	0.855	1.116	2.425	1.05
265	cebq7_gRarely	cebq33=Sometimes	41	0.259	0.872	1.139	2.648	1.02
266	cebq7_gRarely	cebq8=Sometimes	41	0.259	0.872	1.139	2.648	1.02
267	cebq7=Sometimes	mEducation_gHS	44	0.278	0.917	1.197	4.714	1.56
268	cebq7=Sometimes	BreastFed_ls10mo	46	0.291	0.885	1.155	3.169	1.22
269	cebq8_gRarely	sex=Male	48	0.304	0.857	1.119	2.384	1.00
270	cebq8_gRarely	cebq15=Rarely	49	0.310	0.875	1.143	2.917	1.18
271	cebq8_gRarely	income_g50K	55	0.348	0.846	1.105	2.250	1.00

Table 20: Determinants of No LOC-M

	LHS2	LHS1	count	support	confidence	lift	oddsRatio	OR_lowerC
272	cebq8_gRarely	cebq34=Rarely	46	0.291	0.902	1.178	3.925	1.42
273	cebq8_gRarely	cebq29=Rarely	51	0.323	0.879	1.148	3.122	1.27
274	cebq8_gRarely	cebq2=Rarely	47	0.297	0.870	1.137	2.722	1.10
275	cebq8_gRarely	BreastFed_ls10mo	86	0.544	0.819	1.070	2.328	1.09
276	cebq8_gRarely	cebq3_gRarelyRev	68	0.430	0.840	1.096	2.369	1.10
277	cebq8_gRarely	cfq5=Avg	58	0.367	0.853	1.114	2.486	1.10
278	cebq8_gRarely	cebq2_lsSometimes	87	0.551	0.821	1.072	2.424	1.13
279	cebq8_gRarely	cebq23=Sometimes	46	0.291	0.885	1.155	3.169	1.22
280	cebq8_gRarely	cBMI=HW	72	0.456	0.837	1.093	2.414	1.13
281	cebq8_gRarely	cfq6=Avg	58	0.367	0.841	1.098	2.176	0.98
282	cebq8_gRarely	cebq13=Rarely	57	0.361	0.851	1.111	2.405	1.07
283	cebq8_gRarely	income_g75K	55	0.348	0.846	1.105	2.250	1.00
284	cebq8_gRarely	cebq14=Rarely	44	0.278	0.863	1.127	2.449	0.99
285	cebq8_gRarely	cebq7=Sometimes	42	0.266	0.913	1.192	4.386	1.45
286	cebq8=Sometimes	cBMI=HW	46	0.291	0.885	1.155	3.169	1.22
287	cebq8=Sometimes	mEducation_gHS	46	0.291	0.885	1.155	3.169	1.22
288	cfq17_gNeutralAD	cebq26_gRarely	59	0.373	0.855	1.117	2.569	1.14
289	cfq17_gNeutralAD	cebq19_lsSometimes	47	0.297	0.855	1.116	2.302	0.97
290	cfq17_gNeutralAD	cebq34_lsSometimes	67	0.424	0.838	1.094	2.291	1.06
291	cfq2_gSeldom	cebq30_gRarely	66	0.418	0.846	1.105	2.500	1.15
292	cfq2_gSeldom	cebq26_gRarely	72	0.456	0.828	1.081	2.155	1.01
293	cfq23_gNeutralAD	cebq19_lsSometimes	41	0.259	0.891	1.164	3.280	1.18
294	cfq23_gNeutralAD	cebq8_gRarely	57	0.361	0.851	1.111	2.405	1.07
295	cfq23_gNeutralAD	cebq30_gRarely	50	0.316	0.877	1.145	3.018	1.22
296	cfq23_gNeutralAD	cebq34_lsSometimes	58	0.367	0.866	1.130	2.864	1.24
297	cfq23_gNeutralAD	cBMI=HW	53	0.335	0.841	1.099	2.104	0.93
298	cfq23_gNeutralAD	cebq26_gRarely	56	0.354	0.918	1.199	5.514	2.01
299	cfq23_gNeutralAD	cebq21_gRarely	63	0.399	0.851	1.112	2.567	1.16
300	cfq23_gNeutralAD	cebq3_gRarelyRev	48	0.304	0.873	1.140	2.818	1.14
301	cfq24_gNeutralAD	cebq30_gRarely	43	0.272	0.860	1.123	2.363	0.95
302	cfq24_gNeutralAD	cebq26_gRarely	48	0.304	0.889	1.161	3.397	1.31
303	cfq24_gNeutralAD	cebq34_lsSometimes	51	0.323	0.850	1.110	2.267	0.98
304	cfq27_lsNeutralAD	cebq34_lsSometimes	54	0.342	0.857	1.119	2.507	1.09
305	cfq5=Avg	cAge_8.10yr	53	0.335	0.841	1.099	2.104	0.93
306	cfq6=Avg	cfq5=Avg	63	0.399	0.863	1.127	2.933	1.30
307	cfq6=Avg	cebq29=Rarely	44	0.278	0.863	1.127	2.449	0.99
308	cfq9=Avg	cebq34=Rarely	43	0.272	0.860	1.123	2.363	0.95
309	EatFamily_g1wk	income_g75K	60	0.380	0.833	1.088	2.049	0.94
310	EatFamily_g1wk	income_g50K	60	0.380	0.833	1.088	2.049	0.94
311	income_g50K	BreastFed_ls10mo	64	0.405	0.842	1.100	2.339	1.07
312	income_g50K	cBMI=HW	59	0.373	0.843	1.101	2.249	1.02
313	income_g50K	cAge_8.10yr	54	0.342	0.871	1.137	2.922	1.23
314	income_g75K	cAge_8.10yr	54	0.342	0.871	1.137	2.922	1.23
315	income_g75K	BreastFed_ls10mo	64	0.405	0.842	1.100	2.339	1.07

Table 20: Determinants of No LOC-M

	LHS2	LHS1	count	support	confidence	lift	oddsRatio	OR_lowerC
316	income_g75K	cBMI=HW	59	0.373	0.843	1.101	2.249	1.02
317	mBMI=HealthyWeight	cBMI=HW	47	0.297	0.855	1.116	2.302	0.97
318	mEducation_gHS	cBMI=HW	78	0.494	0.830	1.084	2.381	1.12
NA	NA	NA	NA	NA	NA	NA	NA	NA
NA.1	NA	NA	NA	NA	NA	NA	NA	NA
NA.2	NA	NA	NA	NA	NA	NA	NA	NA
NA.3	NA	NA	NA	NA	NA	NA	NA	NA
NA.4	NA	NA	NA	NA	NA	NA	NA	NA
NA.5	NA	NA	NA	NA	NA	NA	NA	NA
NA.6	NA	NA	NA	NA	NA	NA	NA	NA
NA.7	NA	NA	NA	NA	NA	NA	NA	NA
NA.8	NA	NA	NA	NA	NA	NA	NA	NA
NA.9	NA	NA	NA	NA	NA	NA	NA	NA
NA.10	NA	NA	NA	NA	NA	NA	NA	NA
NA.11	NA	NA	NA	NA	NA	NA	NA	NA
NA.12	NA	NA	NA	NA	NA	NA	NA	NA
NA.13	NA	NA	NA	NA	NA	NA	NA	NA
NA.14	NA	NA	NA	NA	NA	NA	NA	NA
NA.15	NA	NA	NA	NA	NA	NA	NA	NA
NA.16	NA	NA	NA	NA	NA	NA	NA	NA
NA.17	NA	NA	NA	NA	NA	NA	NA	NA
NA.18	NA	NA	NA	NA	NA	NA	NA	NA
NA.19	NA	NA	NA	NA	NA	NA	NA	NA
NA.20	NA	NA	NA	NA	NA	NA	NA	NA
NA.21	NA	NA	NA	NA	NA	NA	NA	NA
NA.22	NA	NA	NA	NA	NA	NA	NA	NA
NA.23	NA	NA	NA	NA	NA	NA	NA	NA
NA.24	NA	NA	NA	NA	NA	NA	NA	NA
NA.25	NA	NA	NA	NA	NA	NA	NA	NA
NA.26	NA	NA	NA	NA	NA	NA	NA	NA
NA.27	NA	NA	NA	NA	NA	NA	NA	NA
NA.28	NA	NA	NA	NA	NA	NA	NA	NA
NA.29	NA	NA	NA	NA	NA	NA	NA	NA
NA.30	NA	NA	NA	NA	NA	NA	NA	NA
NA.31	NA	NA	NA	NA	NA	NA	NA	NA
NA.32	NA	NA	NA	NA	NA	NA	NA	NA
NA.33	NA	NA	NA	NA	NA	NA	NA	NA
NA.34	NA	NA	NA	NA	NA	NA	NA	NA
NA.35	NA	NA	NA	NA	NA	NA	NA	NA
NA.36	NA	NA	NA	NA	NA	NA	NA	NA
NA.37	NA	NA	NA	NA	NA	NA	NA	NA
NA.38	NA	NA	NA	NA	NA	NA	NA	NA
NA.39	NA	NA	NA	NA	NA	NA	NA	NA
NA.40	NA	NA	NA	NA	NA	NA	NA	NA

Table 20: Determinants of No LOC-M

	LHS2	LHS1	count	support	confidence	lift	oddsRatio	OR_lowerC
NA.41	NA	NA	NA	NA	NA	NA	NA	NA
NA.42	NA	NA	NA	NA	NA	NA	NA	NA
NA.43	NA	NA	NA	NA	NA	NA	NA	NA
NA.44	NA	NA	NA	NA	NA	NA	NA	NA
NA.45	NA	NA	NA	NA	NA	NA	NA	NA
NA.46	NA	NA	NA	NA	NA	NA	NA	NA
NA.47	NA	NA	NA	NA	NA	NA	NA	NA
NA.48	NA	NA	NA	NA	NA	NA	NA	NA
NA.49	NA	NA	NA	NA	NA	NA	NA	NA
NA.50	NA	NA	NA	NA	NA	NA	NA	NA
NA.51	NA	NA	NA	NA	NA	NA	NA	NA
NA.52	NA	NA	NA	NA	NA	NA	NA	NA
NA.53	NA	NA	NA	NA	NA	NA	NA	NA
NA.54	NA	NA	NA	NA	NA	NA	NA	NA
NA.55	NA	NA	NA	NA	NA	NA	NA	NA
NA.56	NA	NA	NA	NA	NA	NA	NA	NA
NA.57	NA	NA	NA	NA	NA	NA	NA	NA
NA.58	NA	NA	NA	NA	NA	NA	NA	NA
NA.59	NA	NA	NA	NA	NA	NA	NA	NA
NA.60	NA	NA	NA	NA	NA	NA	NA	NA
NA.61	NA	NA	NA	NA	NA	NA	NA	NA
NA.62	NA	NA	NA	NA	NA	NA	NA	NA
NA.63	NA	NA	NA	NA	NA	NA	NA	NA
NA.64	NA	NA	NA	NA	NA	NA	NA	NA
NA.65	NA	NA	NA	NA	NA	NA	NA	NA
NA.66	NA	NA	NA	NA	NA	NA	NA	NA
NA.67	NA	NA	NA	NA	NA	NA	NA	NA
NA.68	NA	NA	NA	NA	NA	NA	NA	NA
NA.69	NA	NA	NA	NA	NA	NA	NA	NA
NA.70	NA	NA	NA	NA	NA	NA	NA	NA
NA.71	NA	NA	NA	NA	NA	NA	NA	NA
NA.72	NA	NA	NA	NA	NA	NA	NA	NA
NA.73	NA	NA	NA	NA	NA	NA	NA	NA
NA.74	NA	NA	NA	NA	NA	NA	NA	NA
NA.75	NA	NA	NA	NA	NA	NA	NA	NA
NA.76	NA	NA	NA	NA	NA	NA	NA	NA
NA.77	NA	NA	NA	NA	NA	NA	NA	NA
NA.78	NA	NA	NA	NA	NA	NA	NA	NA
NA.79	NA	NA	NA	NA	NA	NA	NA	NA
NA.80	NA	NA	NA	NA	NA	NA	NA	NA
NA.81	NA	NA	NA	NA	NA	NA	NA	NA
NA.82	NA	NA	NA	NA	NA	NA	NA	NA
NA.83	NA	NA	NA	NA	NA	NA	NA	NA
NA.84	NA	NA	NA	NA	NA	NA	NA	NA

Table 20: Determinants of No LOC-M

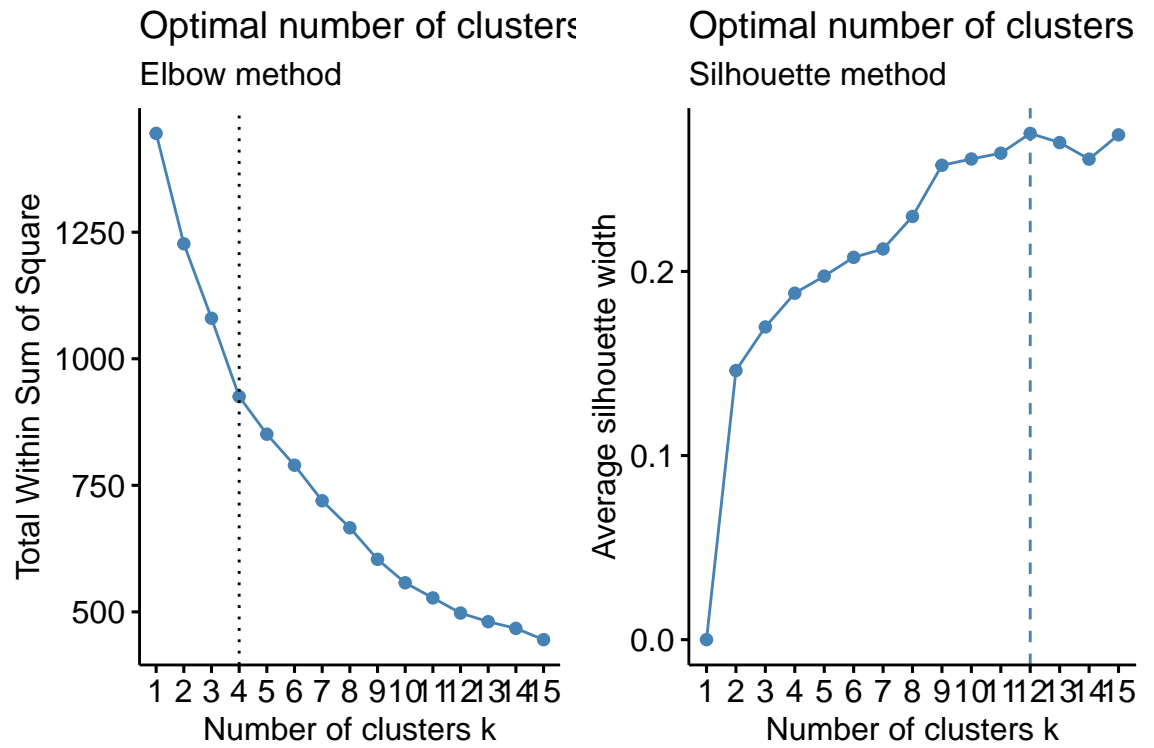
LHS2		LHS1	count	support	confidence	lift	oddsRatio	OR_lowerC
NA.85	NA	NA	NA	NA	NA	NA	NA	NA
NA.86	NA	NA	NA	NA	NA	NA	NA	NA
NA.87	NA	NA	NA	NA	NA	NA	NA	NA
NA.88	NA	NA	NA	NA	NA	NA	NA	NA
NA.89	NA	NA	NA	NA	NA	NA	NA	NA
NA.90	NA	NA	NA	NA	NA	NA	NA	NA
NA.91	NA	NA	NA	NA	NA	NA	NA	NA
NA.92	NA	NA	NA	NA	NA	NA	NA	NA

Category frequencies for uncorrected rules

	BreastFed_ls10mo	cBMI=HW	EatFamily_g1wk	gEF	gN_Rest	gR_DD	gR_EF	gR_EUE
BreastFed_ least4mo	0	0	0	0	0	0	0	0
BreastFed_ls10mo	0	0	0	0	0	0	0	0
cAge_8.10yr	0	1	0	0	0	0	0	0
cAge_8.9yr	0	0	0	0	0	0	0	0
cAge_9.10yr	0	1	0	0	0	0	0	0
cAge_9.12yr	0	1	0	0	0	0	0	0
cBMI=HW	1	0	0	0	1	0	3	
dBMI_OBOW	0	0	0	0	0	0	0	
dEducation_gHS	0	0	0	0	0	0	0	
Female	0	0	0	0	0	0	0	
gEF	0	0	0	0	0	0	0	
gMon	0	0	0	0	0	0	0	
gR_DD	0	0	0	0	0	0	0	
gR_EF	0	0	0	0	0	0	0	
gR_EUE	0	0	0	0	0	0	0	
gR_FF	0	0	0	0	0	0	0	
gR_FR	0	0	0	0	0	0	0	
gR_SE	0	0	0	0	1	0	0	
gR_SR	0	0	0	0	7	0	0	
gS_EF	0	0	0	0	0	0	0	
gS_FR	0	0	0	0	0	0	0	
income_g50K	0	0	1	0	0	0	2	
income_g75K	0	0	1	0	0	0	2	
lsDD	0	0	0	0	0	0	0	
lsEOE	0	0	0	0	0	0	0	
lsFR	0	0	0	0	0	0	1	
lsS_DD	0	0	0	0	0	0	0	
lsS_EOE	0	0	0	0	0	0	0	
lsS_EUE	0	0	0	0	0	0	0	

	BreastFed_ls10mo	cBMI=HW	EatFamily_g1wk	gEF	gN_Rest	gR_DD	gR_EF	gR_
lsS_FF	0	0	0	0	0	0	0	0
lsS_FR	0	0	0	0	5	0	2	
Male	0	0	0	0	0	0	0	
mEducation_gAssoc	0	0	0	0	0	0	0	
mEducation_gHS	0	0	0	0	0	0	0	
PCW_UW	0	0	0	0	0	0	0	
PPW_avg	0	0	0	0	0	0	0	
PPW_UW	0	0	0	0	0	0	0	
sEUE	0	0	0	0	0	0	0	
sFF	0	0	0	0	0	0	2	
sSE	0	0	0	1	0	1	3	
sSR	0	0	0	0	0	1	3	

5.3 Clustering



Plot of cluster metrics

Cluster Metrics

Table 22: Determinants of No LOC-Cluster Metrics

measure	score_at3	method	clusters
Connectivity	84.8603	pam	3

Dunn	0.1768	pam	5
Silhouette	0.2611	pam	10
APN	0.0173	pam	4
AD	1.7326	pam	10
ADM	0.0414	pam	4
FOM	0.0724	pam	10

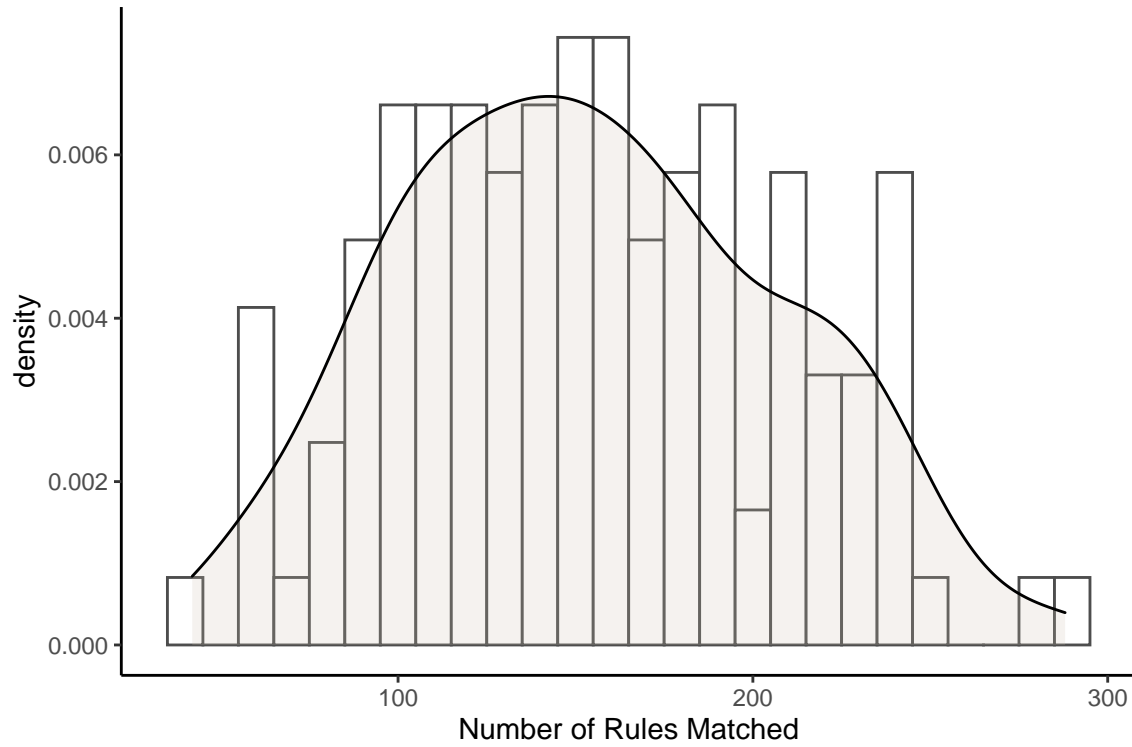
Number of clusters:

- 3: Connectivity
- 4: lower sums of square, Average Proportion of Non-Overlap, and Average distance between centers
- 10: Dunn, Average Distance, and FOM

Table 23: Determinants of NO LOC-Clusters

Cluster_gupta4	Freq
1	163
2	59
3	52
4	44

5.3.1 Endorsement of Rules



5.3.2 4 Cluster Solution

Silhouette plot of pam(x = dist_pruned.rules_lhs2_conf5)

n = 330

4 clusters C_j

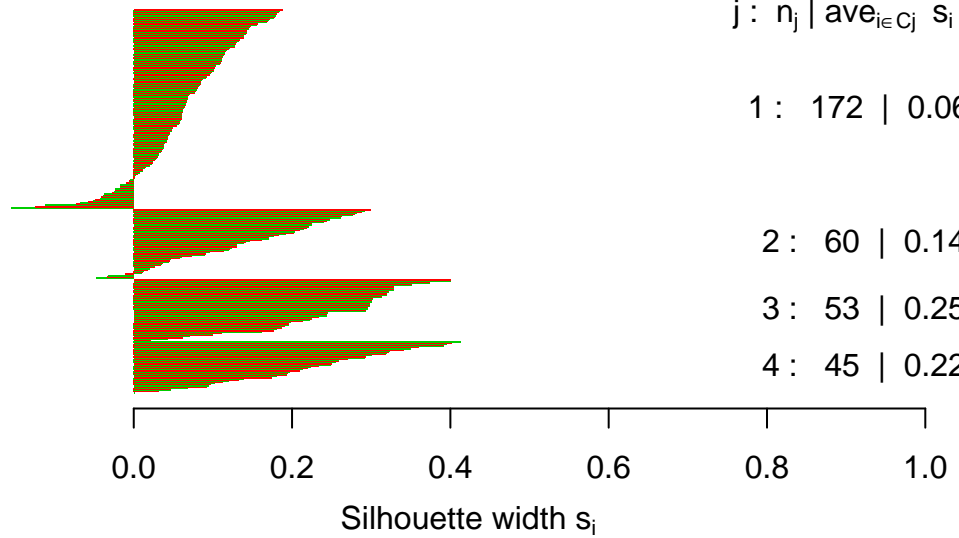
$j : n_j \mid \text{ave}_{i \in C_j} s_i$

1 : 172 | 0.06

2 : 60 | 0.14

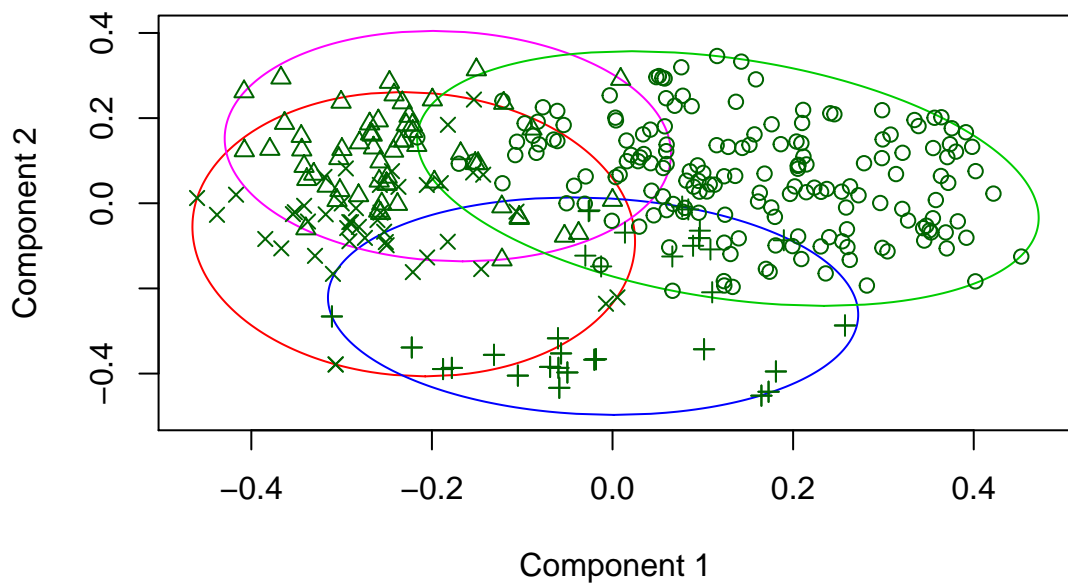
3 : 53 | 0.25

4 : 45 | 0.22



Average Silhouette Widths Average silhouette width : 0.13

Cluster plot, k = 4



Cluster Plot

Cluster 1

These two components explain 17.45 % of the point variability.

	BreastFed_least4mo	BreastFed_ls10mo	cAge_8.10yr	cAge_8.9yr	cAge_9.10yr	cAge_9.12yr
BreastFed_ls10mo	0	0	0	0	0	0
cBMI=HW	0	0	1	0	1	0
gEF	0	0	0	0	0	0
gN_Rest	0	0	0	0	0	0
gR_EF	0	0	0	0	0	0
gR_EUE	0	0	0	0	0	0
gR_FF	0	0	0	0	0	0
gR_FR	0	0	0	0	0	0
gR_SE	0	1	0	0	0	0
gR_SR	0	1	0	0	0	0
gS_EF	0	0	0	0	0	0
lsDD	1	0	0	0	0	0
lsEOE	0	0	0	0	0	0
lsFR	0	2	1	0	0	0
lsN_PE	0	0	0	0	0	0
lsS_DD	0	0	0	0	0	0
lsS_EOE	0	0	0	0	0	0
lsS_FF	0	1	0	0	0	0
lsS_FR	2	2	2	1	0	0
mBMI=HealthyWeight	0	0	0	0	0	0
mEducation_gHS	0	0	0	0	0	0
PCW_UW	0	0	0	0	0	0
PPW_avg	0	0	1	0	0	0
PPW_UW	0	0	0	0	0	0
sSE	0	0	0	0	0	0
coltotals	3	7	5	1	1	0

Table 25: Determinants of NO LOC-Cluster 1 Question Frequency

LHS1	Freq
BreastFed_least4mo	3
BreastFed_ls10mo	7
cAge_8.10yr	5
cAge_8.9yr	1
cAge_9.10yr	1
cAge_9.12yr	4
cBMI=HW	17
cebq1_gRarely	3
cebq10=Sometimes	1
cebq13_lsSometimes	1
cebq13=Rarely	6
cebq14_lsSometimes	4
cebq14=Rarely	5

Table 25: Determinants of NO LOC-Cluster 1 Question Frequency (*continued*)

LHS1	Freq
cebq15_lsSometimes	1
cebq15=Rarely	2
cebq17_gRarely	1
cebq17=Sometimes	1
cebq18_gRarely	1
cebq19_lsSometimes	6
cebq19=Rarely	1
cebq2_lsSometimes	1
cebq2=Rarely	1
cebq20_gRarely	1
cebq21_gRarely	1
cebq21=Sometimes	1
cebq22_gSometimes	1
cebq23_gRarely	1
cebq23=Sometimes	1
cebq24_lsSometimes	1
cebq27_lsSometimes	3
cebq28_gRarely	1
cebq28_gSometimes	1
cebq29_lsSometimes	1
cebq29=Rarely	9
cebq3_gRarelyRev	6
cebq31_lsSometimes	1
cebq31=Rarely	1
cebq33_lsSometimes	1
cebq34_lsSometimes	5
cebq34=Rarely	5
cebq4_gRarelyRev	1
cebq5_gRarely	3
cebq5_gSometimes	1
cebq5=Often	1
cebq6_lsSometimes	1
cebq7_gRarely	2
cebq7=Sometimes	1
cebq8_gRarely	5
cebq8=Sometimes	11
cebq9_lsSometimes	1
cfq30=Mostly	1
cfq5=Avg	3
cfq6=Avg	1
cfq8=Avg	1
cfq9=Avg	2
dBMI_OBOW	1
dEducation_gHS	3

Table 25: Determinants of NO LOC-Cluster 1 Question Frequency (*continued*)

LHS1	Freq
mEducation_gAssoc	2
mEducation_gHS	6
sex=Female	1
sex=Male	1

Cluster 2

Table 26: Determinants of NO LOC-Cluster 2

	gN_Rest	gR_DD	gR_EF	gR_EUE	gR_FF	gR_FR	gR_SE	gR_SR	gS_FR	gS_F
BreastFed_ls10mo	0	0	0	0	0	0	0	1	0	
cAge_8.10yr	0	0	0	0	0	0	1	1	0	
cAge_9.12yr	0	0	0	1	0	0	0	1	0	
cBMI=HW	1	0	0	0	0	0	0	2	1	
dEducation_gHS	0	0	0	0	0	0	0	1	0	
gR_DD	0	0	0	0	0	0	0	1	0	
gR_EF	0	0	0	0	0	0	0	3	0	
gR_EUE	0	0	0	0	0	0	0	4	0	
gR_FF	0	0	0	0	0	0	0	1	0	
gR_SE	1	0	0	0	0	0	0	1	0	
gR_SR	5	0	0	0	0	1	1	1	2	
lsDD	0	0	0	0	0	0	0	1	0	
lsEOE	0	0	0	0	0	0	0	3	0	
lsFR	0	0	0	0	0	0	0	1	0	
lsS_EOE	0	0	0	0	0	0	0	2	0	
mEducation_gHS	0	0	0	0	0	0	0	1	0	
PPW_avg	0	0	0	0	0	0	0	1	0	
sEUE	0	0	0	0	0	0	1	2	0	
sSE	0	1	0	0	0	1	0	0	0	
sSR	0	1	2	0	1	1	0	1	0	
coltotals	7	2	2	1	1	3	3	29	3	

Table 27: Determinants of NO LOC-Cluster 2 Question Frequency

LHS1	Freq
BreastFed_ls10mo	2
cAge_8.10yr	2
cAge_9.12yr	2
cBMI=HW	5
cebq1_gRarely	1
cebq11_gRarely	1
cebq13=Rarely	1

Table 27: Determinants of NO LOC-Cluster 2 Question Frequency (*continued*)

LHS1	Freq
cebq15_lsSometimes	1
cebq15=Rarely	1
cebq17_gRarely	1
cebq17=Sometimes	1
cebq2_lsSometimes	1
cebq2=Rarely	1
cebq20_gRarely	1
cebq21_gRarely	2
cebq23_gRarely	1
cebq23=Sometimes	3
cebq25_gRarely	1
cebq26_gRarely	8
cebq26=Sometimes	6
cebq29=Rarely	1
cebq3_gRarelyRev	1
cebq34=Rarely	1
cebq5_gRarely	1
cebq6_gRarely	1
cebq7_gRarely	1
cebq8_gRarely	2
cebq8=Sometimes	2
cebq9_gRarely	1
cfq5=Avg	1
dEducation_gHS	2
mEducation_gHS	3

Cluster 3

Table 28: Determinants of NO LOC-Cluster 3

	EatFamily_g1wk	gR_EF	gR_EUE	gR_FF	gR_SE	gR_SR	income_g50K	income_g75K
BreastFed_ls10mo	0	0	0	0	0	0	1	
cAge_8.10yr	0	0	0	0	0	0	1	
cBMI=HW	0	0	0	0	0	0	1	
income_g50K	1	2	1	1	2	4	0	
income_g75K	1	2	1	1	2	4	0	
mEducation_gHS	0	0	0	0	0	0	0	
PPW_UW	0	0	0	0	0	1	0	
sFF	0	2	0	2	1	1	0	
coltotals	2	6	2	4	5	10	3	

Table 29: Determinants of NO LOC-Cluster 2 Question Frequency

LHS1	Freq
BreastFed_ls10mo	3
cAge_8.10yr	3
cBMI=HW	2
cebq10=Sometimes	1
cebq33=Sometimes	2
cebq7=Sometimes	7
cfq6=Avg	1
income_g50K	16
income_g75K	16
mEducation_gHS	1

Cluster 4

Table 30: Determinants of NO LOC-Cluster 3

	gN_Rest	gR_EF	gR_EUE	gR_SE	gR_SR	gS_PR	lsEOE	lsS_DD	lsS_FR	rowtot
BreastFed_ls10mo	0	0	0	0	1	0	0	0	0	
cAge_8.10yr	0	0	0	0	1	0	0	0	0	
cBMI=HW	0	0	0	0	1	0	1	0	0	
dBMI_OBOW	0	0	0	0	1	0	0	0	0	
gR_DD	0	0	0	0	1	0	0	0	0	
gR_EF	0	0	0	0	3	0	0	0	0	
gR_EUE	0	0	1	1	2	0	0	0	0	
gR_FR	0	0	0	0	1	0	0	0	0	
gR_SE	0	0	1	0	2	0	0	0	0	
gR_SR	2	0	0	1	3	1	0	1	1	
gS_EF	0	0	0	0	1	0	0	0	0	
income_g50K	0	0	0	0	1	0	0	0	0	
income_g75K	0	0	0	0	1	0	0	0	0	
lsEOE	0	0	0	2	4	0	0	0	0	
lsS_DD	0	0	0	0	1	0	0	0	0	
lsS_EOE	0	0	0	0	3	0	0	0	0	
PPW_avg	0	0	0	0	1	0	0	0	0	
PPW_UW	0	0	0	0	1	0	0	0	0	
sEUE	0	0	1	0	1	0	0	0	0	
sSR	0	1	0	0	0	0	0	0	0	
coltotals	2	1	3	4	30	1	1	1	1	

Table 31: Determinants of NO LOC-Cluster 2 Question Frequency

LHS1	Freq
BreastFed_ls10mo	1

Table 31: Determinants of NO LOC-Cluster 2 Question Frequency (*continued*)

LHS1	Freq
cAge_8.10yr	1
cBMI=HW	2
cebq1_gRarely	1
cebq13_lsSometimes	1
cebq15_lsSometimes	1
cebq15=Rarely	4
cebq2_lsSometimes	1
cebq2=Rarely	2
cebq20_gRarely	1
cebq20_gSometimes	1
cebq21_gRarely	1
cebq23_gRarely	3
cebq23=Sometimes	2
cebq25_gRarely	1
cebq26_gRarely	1
cebq28_gRarely	1
cebq29_lsSometimes	1
cebq3_gRarelyRev	1
cebq30_gRarely	6
cebq30=Sometimes	1
cebq4_gRarelyRev	1
cebq5_gRarely	1
cebq6_gRarely	1
cebq8_gRarely	2
cfq5=Avg	1
cfq6=Avg	1
dBMI_OBOW	1
income_g50K	1
income_g75K	1

5.4 Testing Additive Effects

Subset: Contains predictor from step 1

- 61 rules contained a significant predictor from step 1
- all were significant
- 7 were significant after controlling for multiple comparisons - adjuting only for those 61

Table 32: Determinants of No LOC-

LHS2	LHS1	RHS	count	support	confidence	lift	oddsRatio	chi.sq	chi
cebq34_lsSometimes	BreastFed_least4mo	loc1=No	67	0.424	0.848	1.107	2.585	5.964	0
cebq34_lsSometimes	cAge_8.10yr	loc1=No	73	0.462	0.859	1.121	3.168	8.873	0

Table 32: Determinants of No LOC-Additi

LHS2	LHS1	RHS	count	support	confidence	lift	oddsRatio	chi.sq	chi
cebq34_lsSometimes	cAge_9.12yr	loc1=No	59	0.373	0.855	1.117	2.569	5.441	
cebq34_lsSometimes	cebq1_gRarely	loc1=No	99	0.627	0.832	1.086	3.825	11.749	
cebq34_lsSometimes	cebq10=Sometimes	loc1=No	49	0.310	0.860	1.123	2.467	4.377	
cebq34_lsSometimes	cebq13_lsSometimes	loc1=No	92	0.582	0.836	1.092	3.349	10.047	
cebq34_lsSometimes	cBMI=HW	loc1=No	80	0.506	0.851	1.111	3.206	9.402	
cebq34_lsSometimes	cebq14_lsSometimes	loc1=No	67	0.424	0.882	1.151	3.860	10.941	
cebq34_lsSometimes	cebq14=Rarely	loc1=No	49	0.310	0.907	1.185	4.356	9.170	
cebq34_lsSometimes	cebq15_lsSometimes	loc1=No	93	0.589	0.830	1.084	3.147	8.934	
cebq34_lsSometimes	cebq13=Rarely	loc1=No	62	0.392	0.873	1.140	3.269	8.296	
cebq34_lsSometimes	cebq17_gRarely	loc1=No	76	0.481	0.835	1.091	2.477	5.754	
cebq34_lsSometimes	cebq17=Sometimes	loc1=No	45	0.285	0.865	1.130	2.538	4.284	
cebq34_lsSometimes	cebq18_gRarely	loc1=No	43	0.272	0.896	1.170	3.528	6.498	
cebq34_lsSometimes	cebq19_lsSometimes	loc1=No	71	0.449	0.835	1.091	2.333	4.951	
cebq34_lsSometimes	cebq19=Rarely	loc1=No	48	0.304	0.873	1.140	2.818	5.377	
cebq34_lsSometimes	cebq2=Rarely	loc1=No	46	0.291	0.868	1.133	2.629	4.636	
cebq34_lsSometimes	cebq20_gRarely	loc1=No	93	0.589	0.838	1.094	3.506	10.791	
cebq34_lsSometimes	cebq21_gRarely	loc1=No	78	0.494	0.848	1.107	2.980	8.258	
cebq34_lsSometimes	cebq21=Sometimes	loc1=No	52	0.329	0.852	1.113	2.345	4.159	
cebq34_lsSometimes	cebq22_gSometimes	loc1=No	69	0.437	0.831	1.086	2.180	4.183	
cebq34_lsSometimes	cebq23_gRarely	loc1=No	60	0.380	0.857	1.119	2.656	5.844	
cebq34_lsSometimes	cebq23=Sometimes	loc1=No	45	0.285	0.882	1.152	3.059	5.702	
cebq34_lsSometimes	cebq15=Rarely	loc1=No	52	0.329	0.897	1.171	3.894	8.733	
cebq34_lsSometimes	cebq26_gRarely	loc1=No	66	0.418	0.835	1.091	2.215	4.270	
cebq34_lsSometimes	cebq27_lsSometimes	loc1=No	53	0.335	0.841	1.099	2.104	3.326	
cebq34_lsSometimes	cebq28_gRarely	loc1=No	78	0.494	0.839	1.095	2.660	6.697	
cebq34_lsSometimes	cebq28_gSometimes	loc1=No	44	0.278	0.880	1.149	2.952	5.317	
cebq34_lsSometimes	cebq29_lsSometimes	loc1=No	70	0.443	0.854	1.115	2.859	7.334	
cebq34_lsSometimes	cebq29=Rarely	loc1=No	55	0.348	0.902	1.177	4.306	10.220	
cebq34_lsSometimes	cebq3_gRarelyRev	loc1=No	72	0.456	0.837	1.093	2.414	5.363	
cebq34_lsSometimes	cebq30_gRarely	loc1=No	61	0.386	0.859	1.122	2.745	6.263	
cebq34_lsSometimes	cebq31_lsSometimes	loc1=No	70	0.443	0.864	1.128	3.244	8.969	
cebq34_lsSometimes	cebq31=Rarely	loc1=No	49	0.310	0.891	1.163	3.516	7.361	
cebq34_lsSometimes	cebq33_lsSometimes	loc1=No	42	0.266	0.894	1.167	3.403	6.092	
cebq34_lsSometimes	cebq8_gRarely	loc1=No	81	0.513	0.862	1.125	3.738	11.895	
cebq34_lsSometimes	cebq24_lsSometimes	loc1=No	50	0.316	0.862	1.126	2.553	4.733	
cebq34_lsSometimes	cebq9_lsSometimes	loc1=No	58	0.367	0.841	1.098	2.176	3.817	
cebq34_lsSometimes	cfq30=Mostly	loc1=No	41	0.259	0.872	1.139	2.648	4.233	
cebq34_lsSometimes	cfq5=Avg	loc1=No	62	0.392	0.849	1.109	2.484	5.274	
cebq34_lsSometimes	cfq9=Avg	loc1=No	70	0.443	0.833	1.088	2.255	4.558	
cebq34_lsSometimes	cebq4_gRarelyRev	loc1=No	71	0.449	0.845	1.104	2.622	6.307	
cebq34_lsSometimes	cebq5_gRarely	loc1=No	97	0.614	0.836	1.092	3.829	12.054	
cebq34_lsSometimes	cebq5_gSometimes	loc1=No	59	0.373	0.868	1.133	2.961	6.902	
cebq34_lsSometimes	cebq5=Often	loc1=No	48	0.304	0.857	1.119	2.384	4.034	
cebq34_lsSometimes	cebq6_lsSometimes	loc1=No	41	0.259	0.872	1.139	2.648	4.233	

Table 32: Determinants of No LOC-Additi

LHS2	LHS1	RHS	count	support	confidence	lift	oddsRatio	chi.sq	chi
cebq34_lsSometimes	cebq7_gRarely	loc1=No	66	0.418	0.835	1.091	2.215	4.270	0
cebq34_lsSometimes	cebq7=Sometimes	loc1=No	42	0.266	0.955	1.246	9.304	12.111	0
cebq34_lsSometimes	income_g75K	loc1=No	61	0.386	0.897	1.171	4.357	11.465	0
cebq34_lsSometimes	cebq8=Sometimes	loc1=No	50	0.316	0.862	1.126	2.553	4.733	0
cebq34_lsSometimes	dEducation_gHS	loc1=No	68	0.430	0.840	1.096	2.369	5.032	0
cebq34_lsSometimes	income_g50K	loc1=No	61	0.386	0.897	1.171	4.357	11.465	0
cebq34_lsSometimes	mEducation_gAssoc	loc1=No	64	0.405	0.831	1.085	2.073	3.576	0
cebq34_lsSometimes	mEducation_gHS	loc1=No	80	0.506	0.842	1.100	2.862	7.731	0
cebq34_lsSometimes	sex=Female	loc1=No	53	0.335	0.855	1.116	2.425	4.509	0
cebq35_gRarely	cebq34_lsSometimes	loc1=No	51	0.323	0.927	1.211	6.011	12.263	0
cfq17_gNeutralAD	cebq34_lsSometimes	loc1=No	67	0.424	0.838	1.094	2.291	4.642	0
cfq23_gNeutralAD	cebq34_lsSometimes	loc1=No	58	0.367	0.866	1.130	2.864	6.467	0
cfq24_gNeutralAD	cebq34_lsSometimes	loc1=No	51	0.323	0.850	1.110	2.267	3.822	0
cfq27_lsNeutralAD	cebq34_lsSometimes	loc1=No	54	0.342	0.857	1.119	2.507	4.872	0

- 1 rule had OR that exceed the step 1 OR

CEBQ 34 > Rarely (FR) + CEBQ 7 = Sometimes (FF)

Table 33: Determinants of NO LOC additive: CEBQ 34 > Rarely (FR) + CEBQ 7 = Sometimes (FF)

	Beta	SE	z	P	e ^{beta}	e ^{se}
cebq34_gRarelyTRUE	1.351	0.521	2.593	0.010	3.86	1.684
cebq7_SometimesTRUE	-1.895	0.770	-2.460	0.014	0.15	2.160
cebq34_gRarelyTRUE:cebq7_SometimesTRUE	1.001	1.046	0.956	0.339	2.72	2.847

6 Determinants of Absence of LOC in High Risk Sample

- There were 91 with at least 1 High Risk characteristic: 61 no LOC (50% of all no LOC sample) and 30 LOC.

6.1 Step 1: Single Predictor

- Confidence = 0.33
- Support = 0.17 (25%, n = 15)

132 rules were identified, none of which were significant with multiple comparisons; 10 were significant uncorrected.

Table 34: Determinants of Absence of LOC in High Risk Sample

LHS	RHS	count	support	confidence	lift	oddsRatio	chi.sq	chi.sq.p	OR_lowerCI
cBMI=HW	loc1=No	93	0.589	0.809	1.056	2.265	4.331	0.037	1.038
cebq14_lsSometimes	loc1=No	71	0.449	0.835	1.091	2.333	4.951	0.026	1.095
cebq14=Rarely	loc1=No	53	0.335	0.855	1.116	2.425	4.509	0.034	1.055
cebq19_lsSometimes	loc1=No	74	0.468	0.822	1.074	2.066	3.709	0.054	0.980
cebq19=Rarely	loc1=No	50	0.316	0.847	1.107	2.191	3.499	0.061	0.952
cebq26_gRarely	loc1=No	83	0.525	0.822	1.073	2.306	4.889	0.027	1.089
cebq27=Rarely	loc1=No	37	0.234	0.881	1.150	2.819	4.228	0.040	1.018
cebq30_gRarely	loc1=No	76	0.481	0.835	1.091	2.477	5.754	0.016	1.167
cebq34_lsSometimes	loc1=No	102	0.646	0.829	1.083	4.090	12.463	0.000	1.812
cebq34=Rarely	loc1=No	61	0.386	0.847	1.106	2.403	4.887	0.027	1.091
cebq7=Sometimes	loc1=No	52	0.329	0.881	1.151	3.230	7.008	0.008	1.316
cebq8_gRarely	loc1=No	94	0.595	0.803	1.049	2.119	3.554	0.059	0.961
cebq8=Sometimes	loc1=No	61	0.386	0.836	1.091	2.118	3.686	0.055	0.976

6.2 Step 2: Multiple Predictors

- Confidence = 0.50
- Support = 0.23 (33%, n = 20)

2858 rules were identified, none of which were significant rules after correction. 552 were significant with no correction.

6.3 Clustering

Number of clusters:

- 7: Connectivity, Average Proportion of Non-Overlap, and Average distance between centers
- 10: Dunn, Average Distance, Average Proportion of Non-Overlap, and Average distance between center