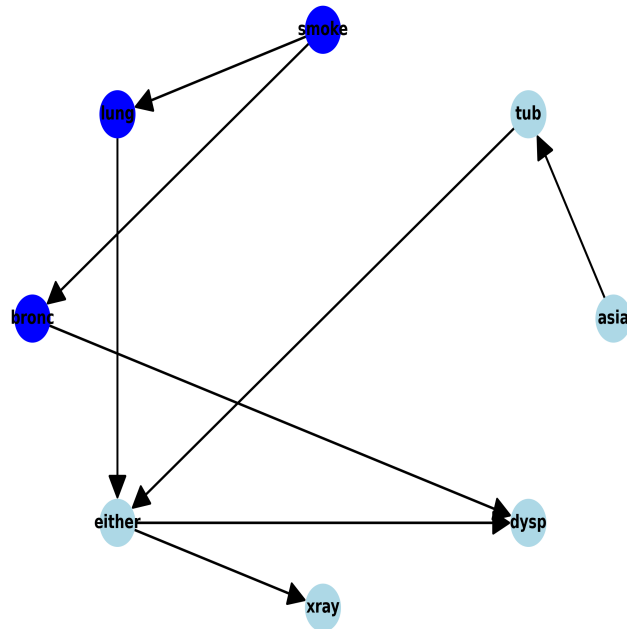
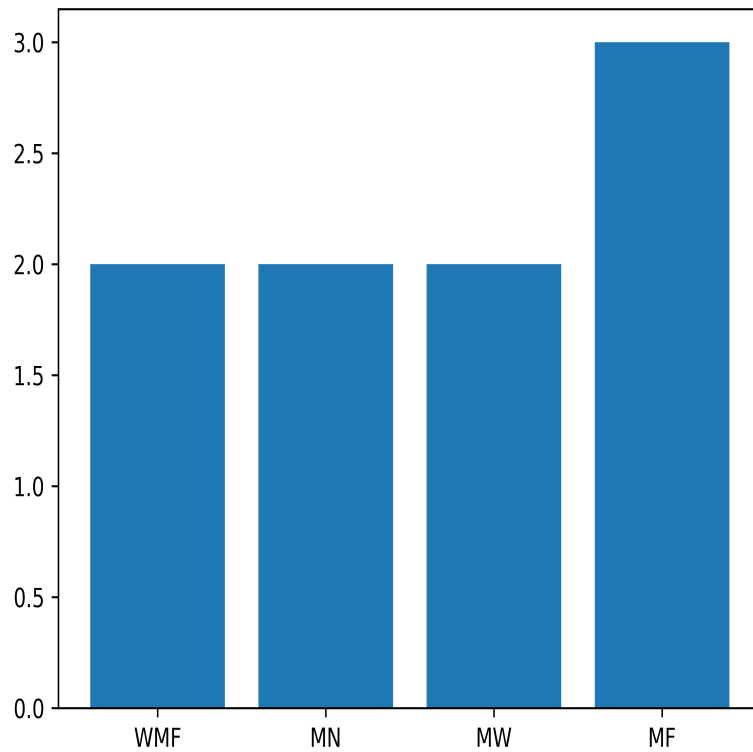


Variable Elimination - reasoning



Comparison of heuristics for selecting variable elimination ordering



La heurística de eliminación óptima es MinNeighbors

Factors of the reduced model

+-----+-----+-----+			
smoke	smoke(yes)	smoke(no)	
+-----+-----+-----+			
lung(yes)	0.1	0.01	
+-----+-----+-----+			
lung(no)	0.9	0.99	
+-----+-----+-----+			
+-----+-----+-----+			
smoke	smoke(yes)	smoke(no)	
+-----+-----+-----+			
bronc(yes)	0.6	0.3	
+-----+-----+-----+			
bronc(no)	0.4	0.7	
+-----+-----+-----+			
+-----+-----+			
smoke(yes)	0.5		
+-----+-----+			
smoke(no)	0.5		
+-----+-----+			

Elimination order: smoke

Variable to eliminate smoke

Factors involved

+-----+-----+			
smoke	phi(smoke)		
+-----+-----+			
smoke(yes)	0.5000		
+-----+-----+			
smoke(no)	0.5000		
+-----+-----+			
+-----+-----+			
smoke	phi(smoke)		
+-----+-----+			
smoke(yes)	0.1000		
+-----+-----+			
smoke(no)	0.0100		
+-----+-----+			
+-----+-----+-----+			
bronc	smoke	phi(bronc,smoke)	
+-----+-----+-----+			
bronc(yes)	smoke(yes)	0.6000	
+-----+-----+-----+			
bronc(yes)	smoke(no)	0.3000	
+-----+-----+-----+			
bronc(no)	smoke(yes)	0.4000	
+-----+-----+-----+			
bronc(no)	smoke(no)	0.7000	
+-----+-----+-----+			

Phi

+-----+		
bronc	phi(bronc)	
+-----+		
bronc(yes)	0.0315	
+-----+		
bronc(no)	0.0235	
+-----+		

Final distribution

+-----+-----+	
bronc	phi(bronc)
+=====+=====+	
bronc(yes)	0.5727
+-----+-----+	
bronc(no)	0.4273
+-----+-----+	