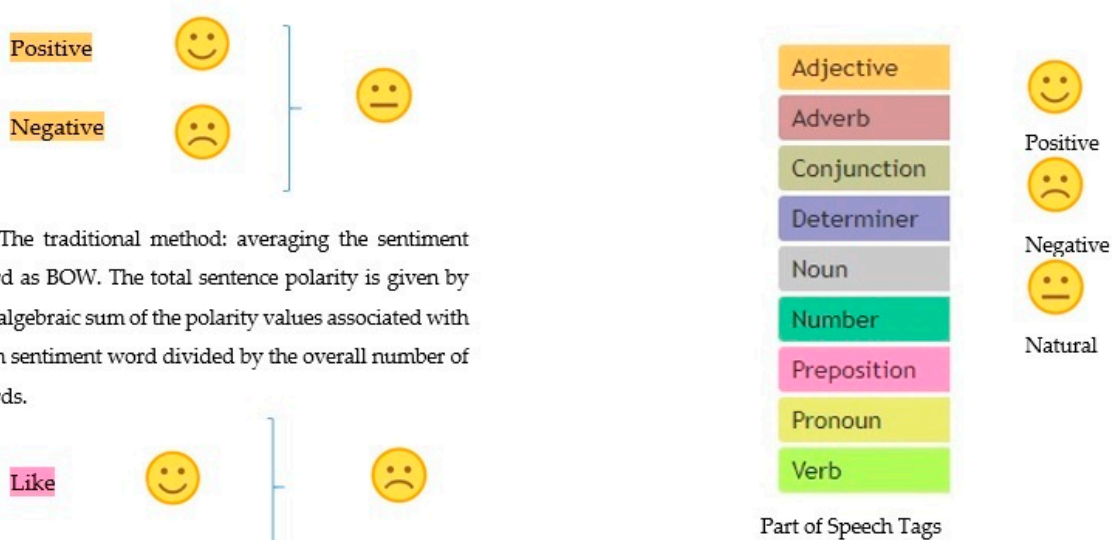


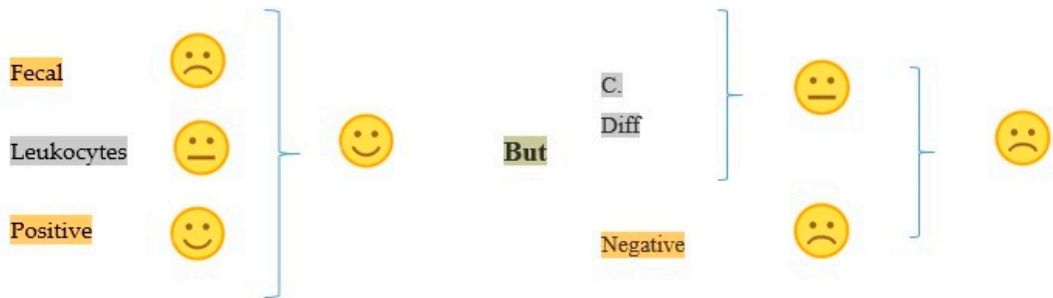
**Figure S3.** The fill picture of Attribute Weights (SVM)

Her fecal leukocytes were positive but her C. diff was negative  
 Did not like oxycodone and has many medication intolerances  
 He dislike the food here

(a) POS tree sentences



(c) The negation word can change the polarity of sentence.



(d) The shifter word can alter the polarity of sentence. In this step we used our association rules and weighting method

Figure S4. The main idea for our study.