**Supplemental Figure 1.** Line plots with 95% confident interval showing the linear relationship between the predictive milk components and the absorption peaks of these components (fat, true protein and lactose) at eight separate time periods prior to disease diagnosis (>14 d, 10 – 8 d, 7 – 6 d, 5 – 4 d, 3 d, 2 d, 1 d, and 0 d). Coefficient of determination(R2) which represents the percentage of the variance in the absorption peaks that the predictive milk components explain collectively, and P-value which indicates overall significance of the regression model were present.

A chart of different types of graphs

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**Supplemental Figure 2.** Predictive performance (accuracy, sensitivity and specificity) of PLS-DA using milk FTIR spectra (R1+R2+R3 and R1+R2+R3+R4) and the first derivative.

A graph of different types of lines

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