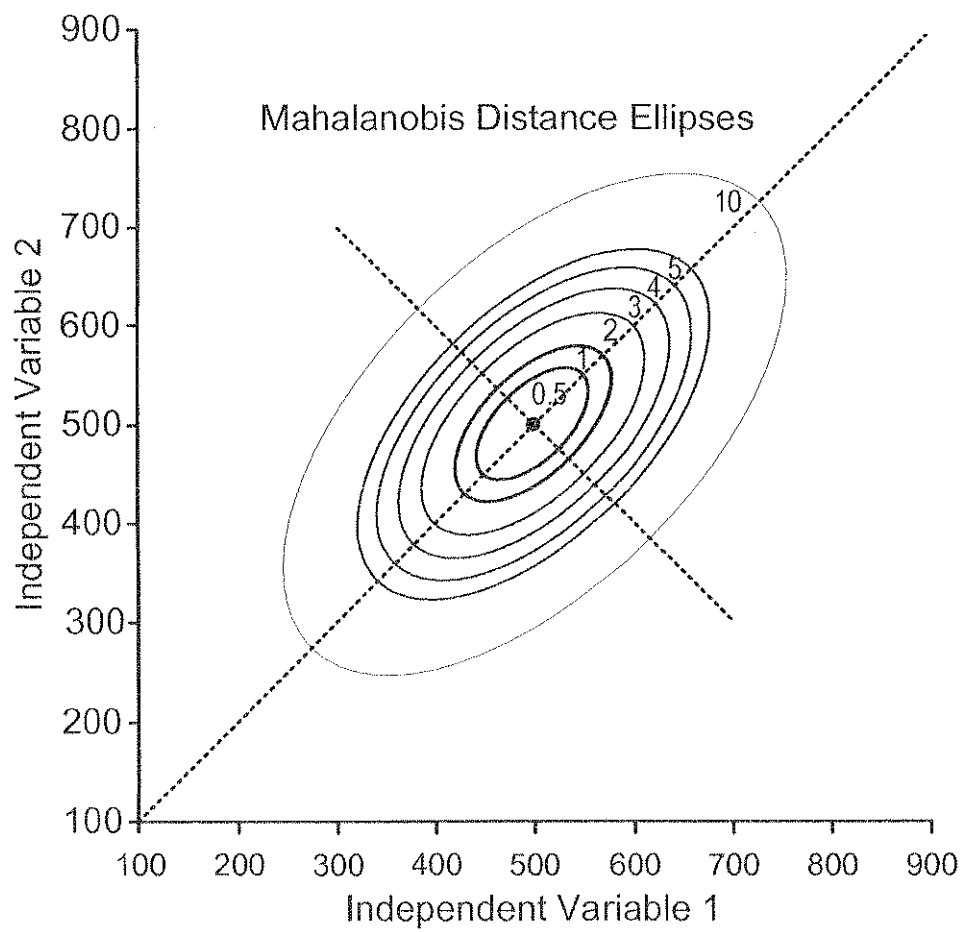


Multivariate Analysis Using Mahalanobis Distance



$$d(\vec{x}, \vec{y}) = \sqrt{(\vec{x} - \vec{y})^T \Sigma^{-1} (\vec{x} - \vec{y})}$$

FIG. 1

Multivariate Analysis Using Mahalanobis Distance

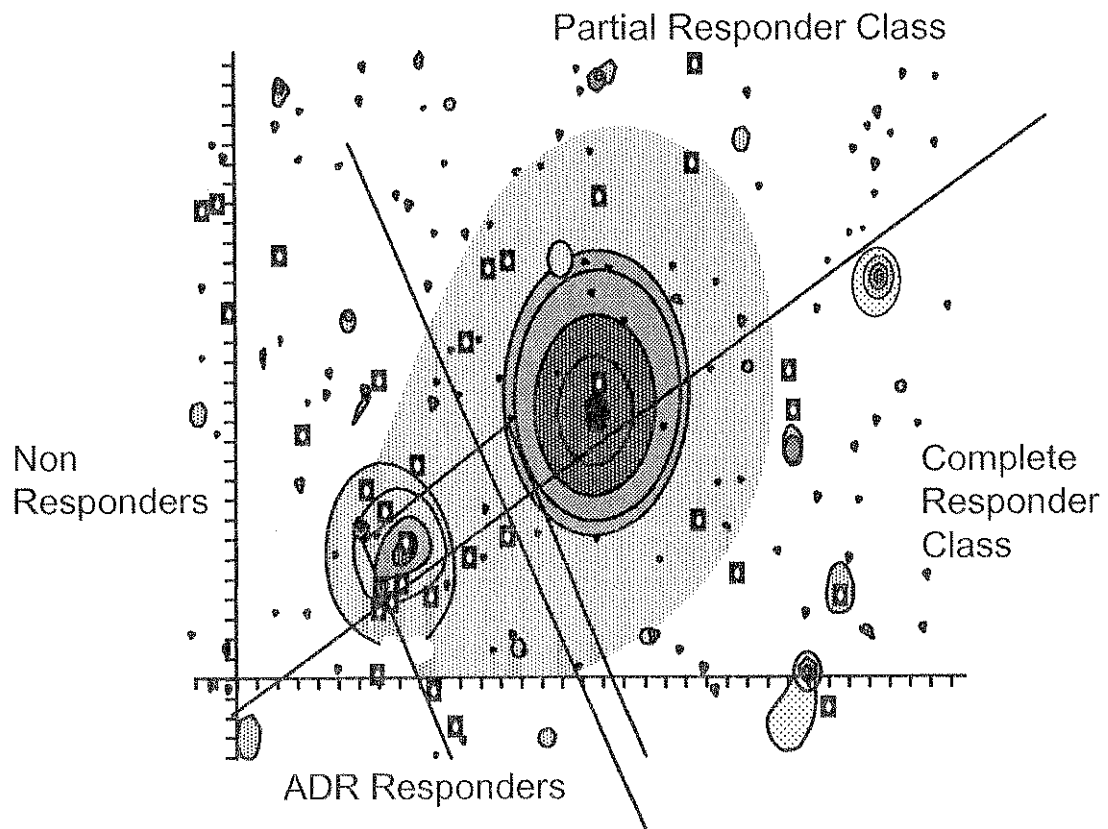


FIG. 2

Building the Model

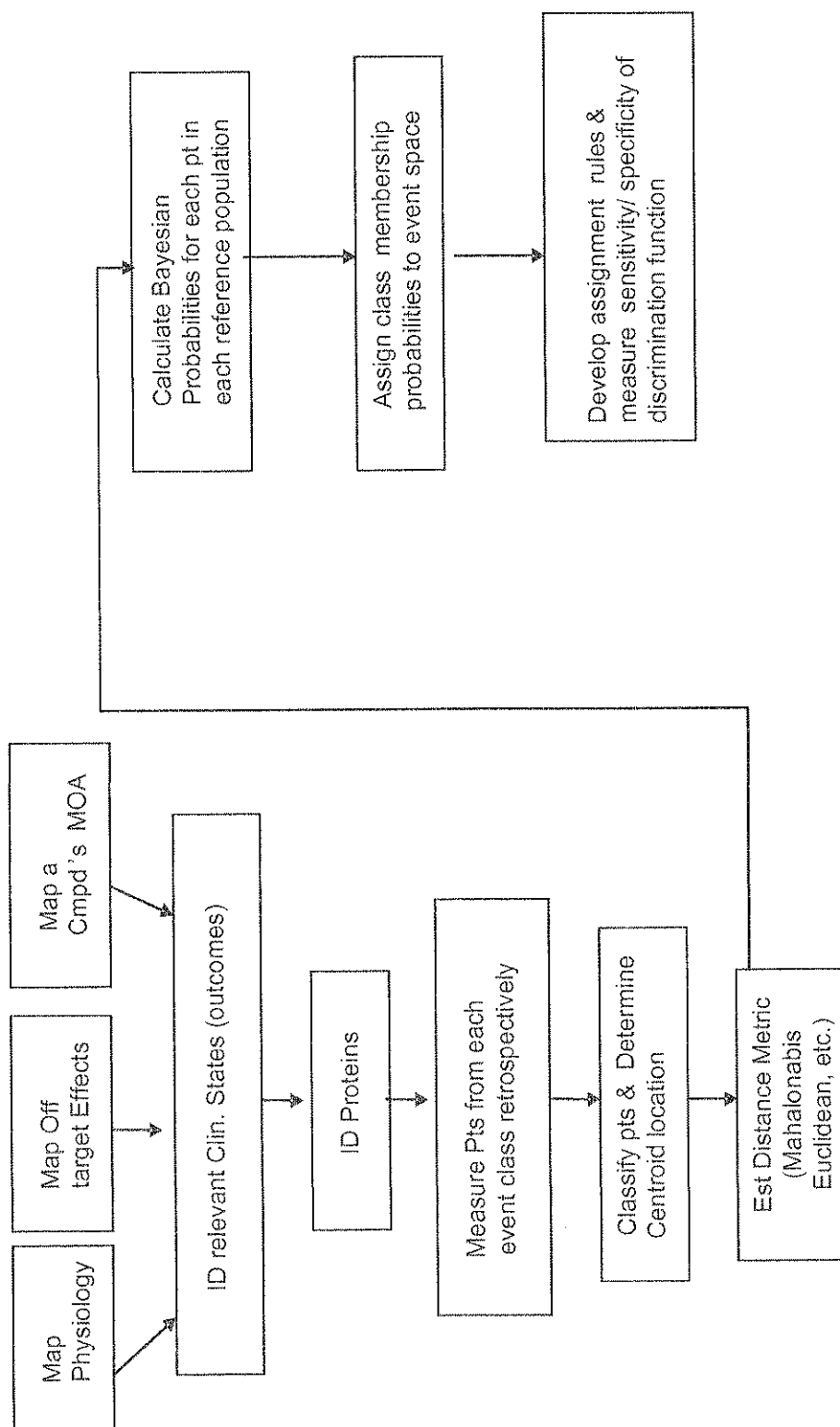


FIG. 3

Establish the Patient Classes and Probability Space Boundaries

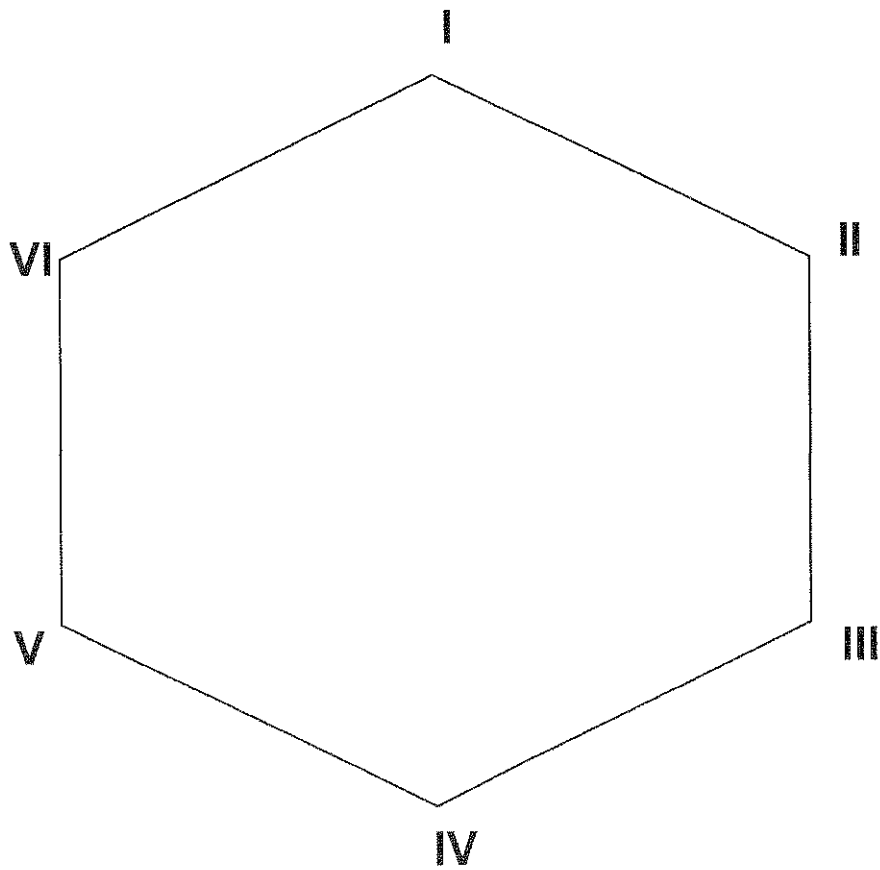


FIG. 4

Establish the Time
Dependent Trajectory in the Geometry of the Response Space

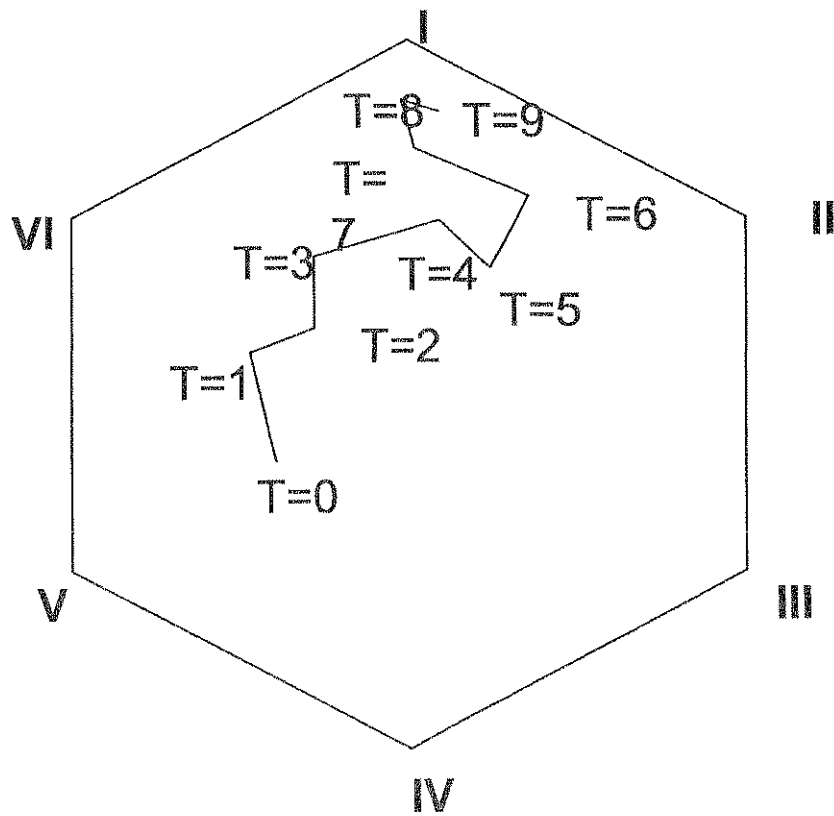


FIG. 5

Applying the Model Longitudinally in Real Time

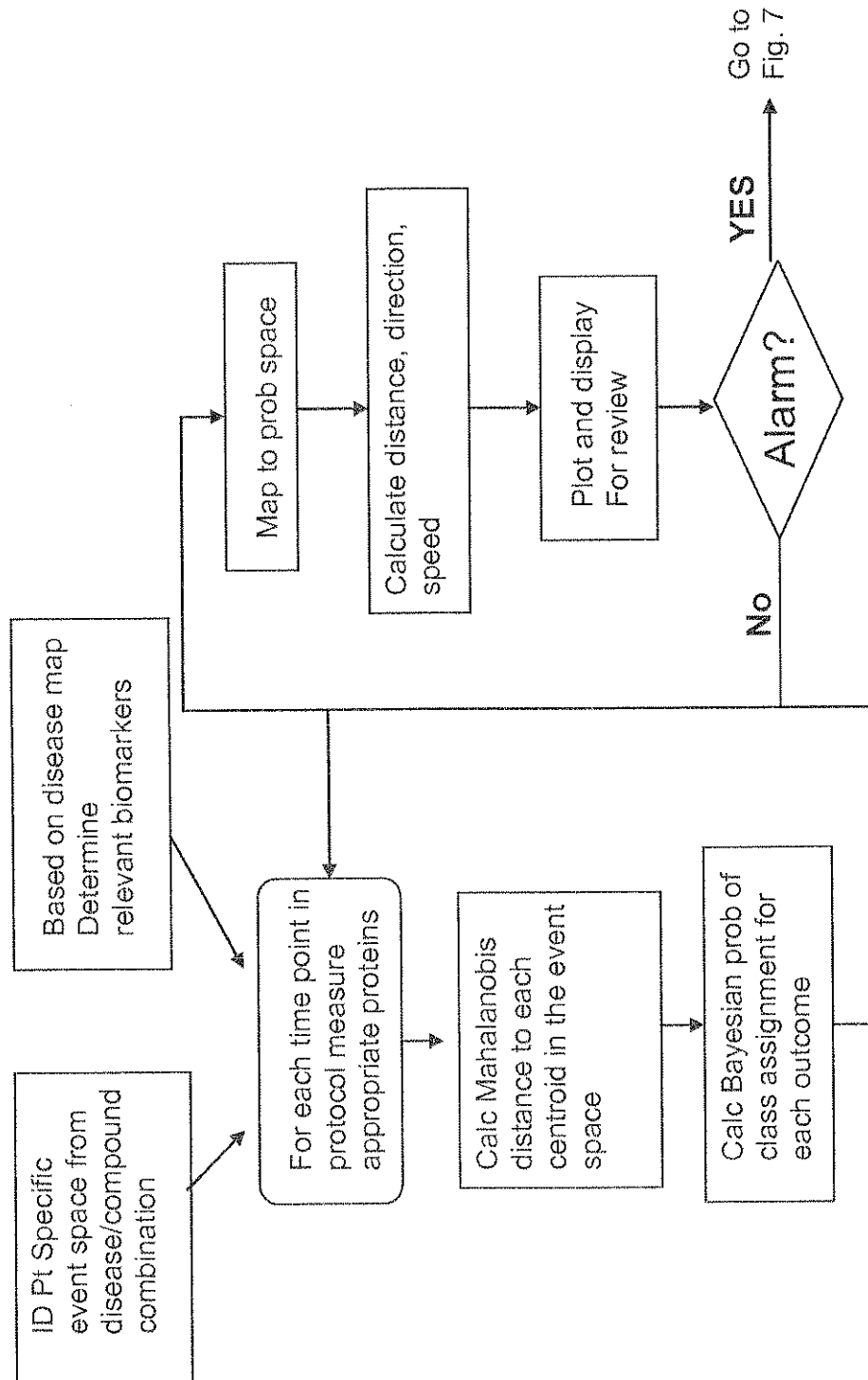


FIG. 6

Real Time Patient Monitoring and Alarm/ Alert

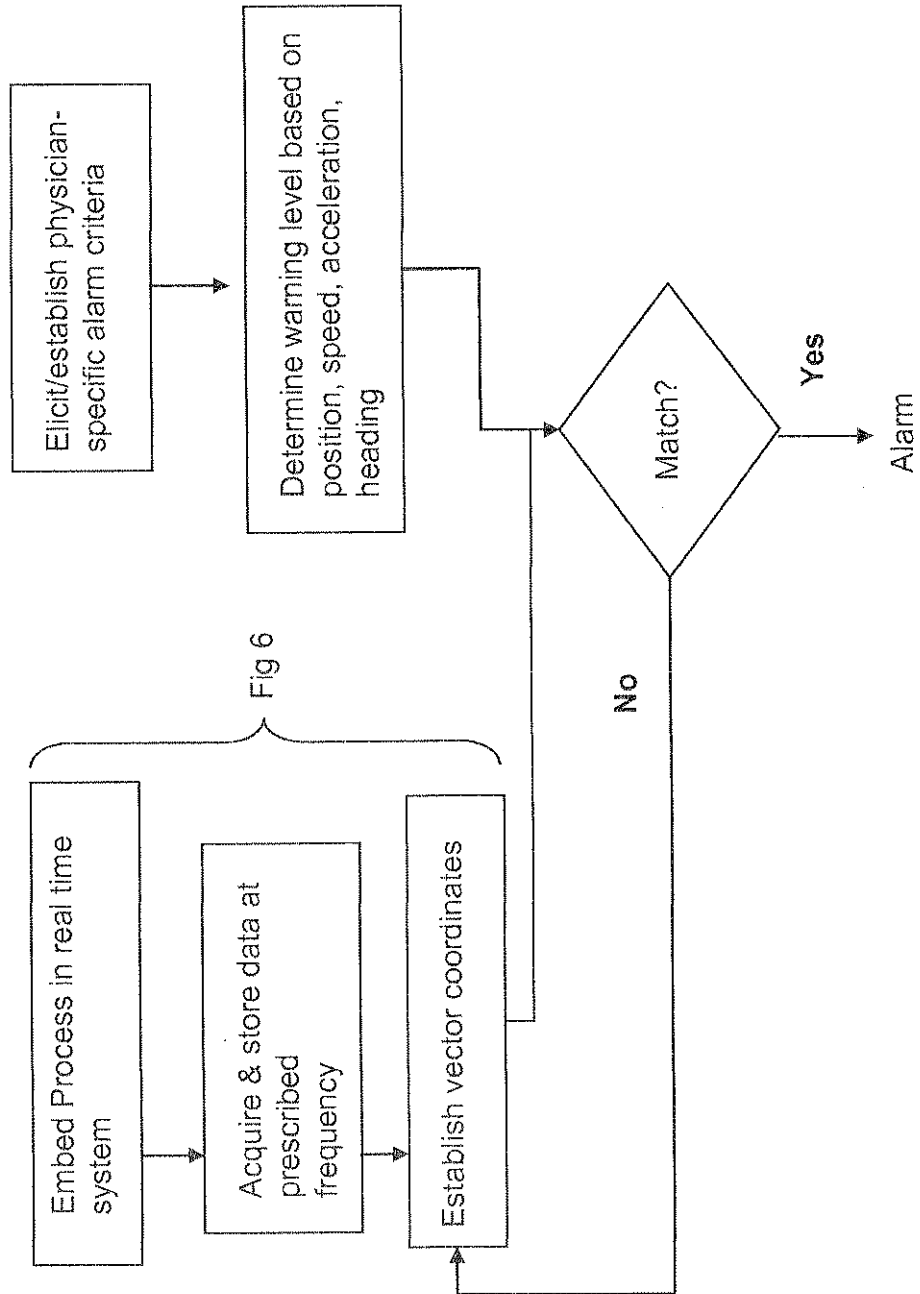


FIG. 7

Establish the Time Dependent Trajectory in the Geometry of the Response Space

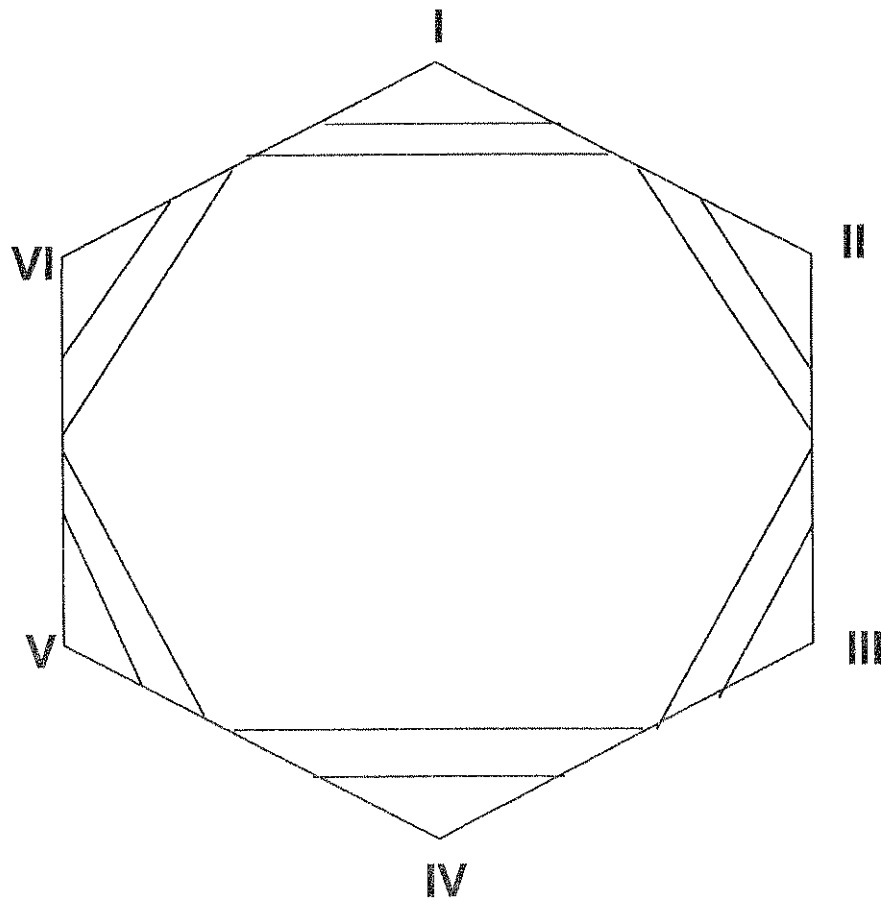


FIG. 8

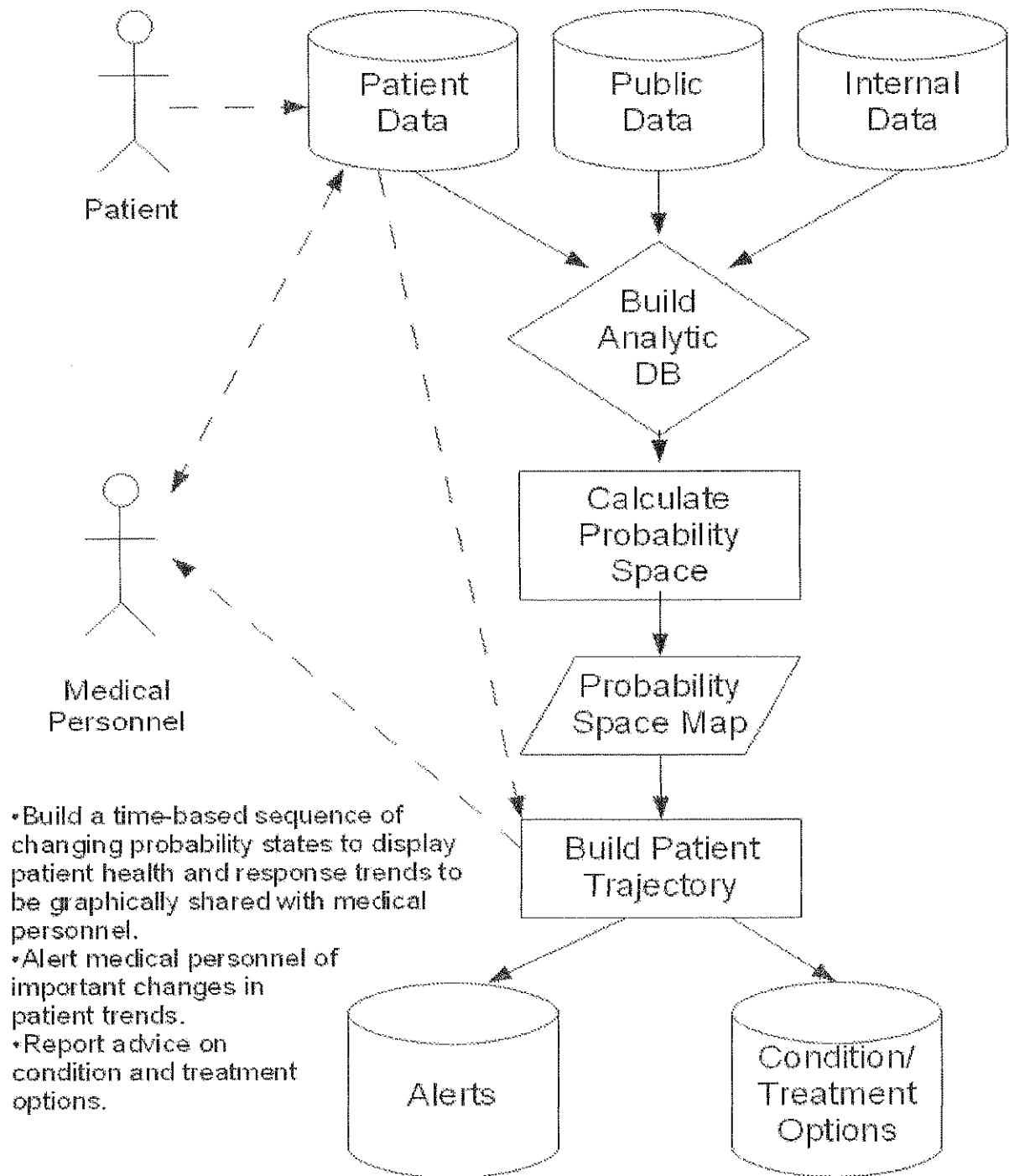


FIG. 9

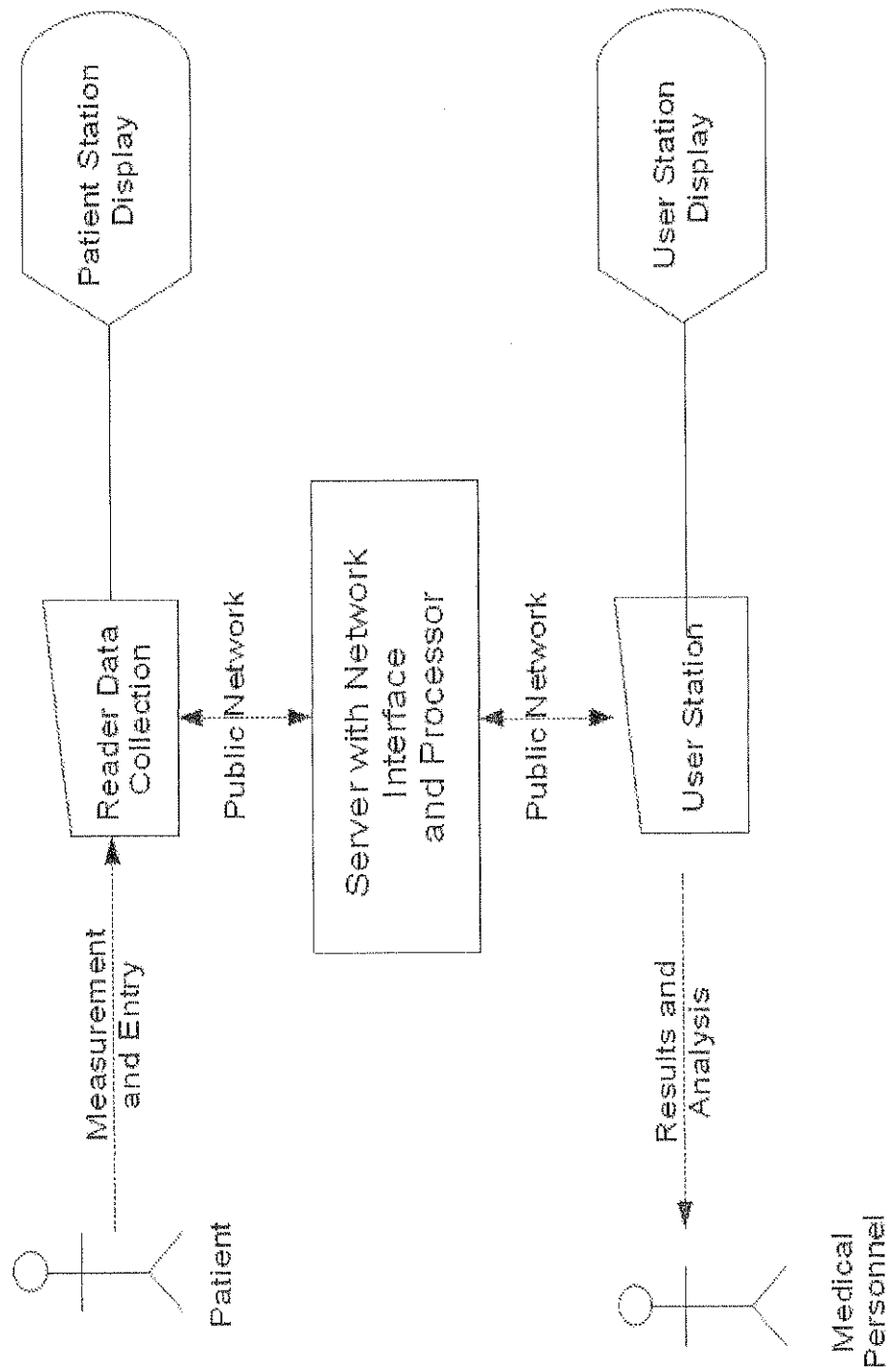


FIG. 10

Turn disease-specific data into clinically relevant and actionable information.

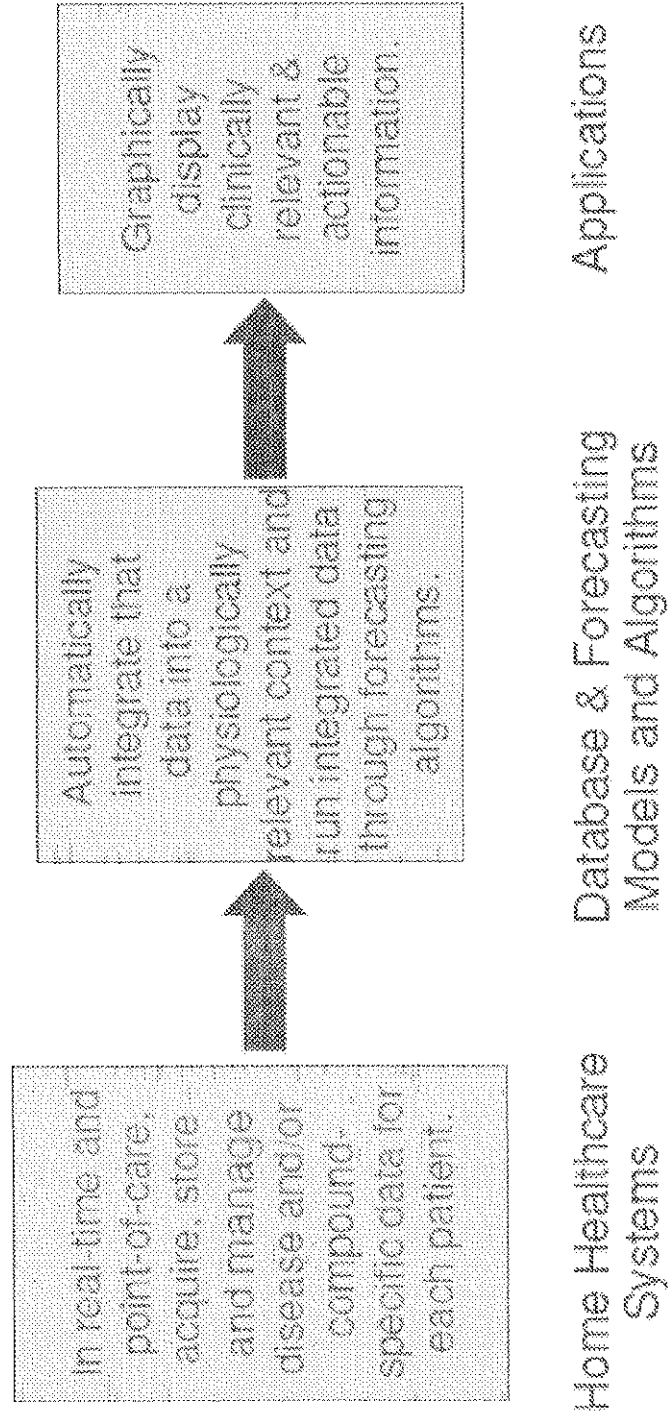


FIG. 11

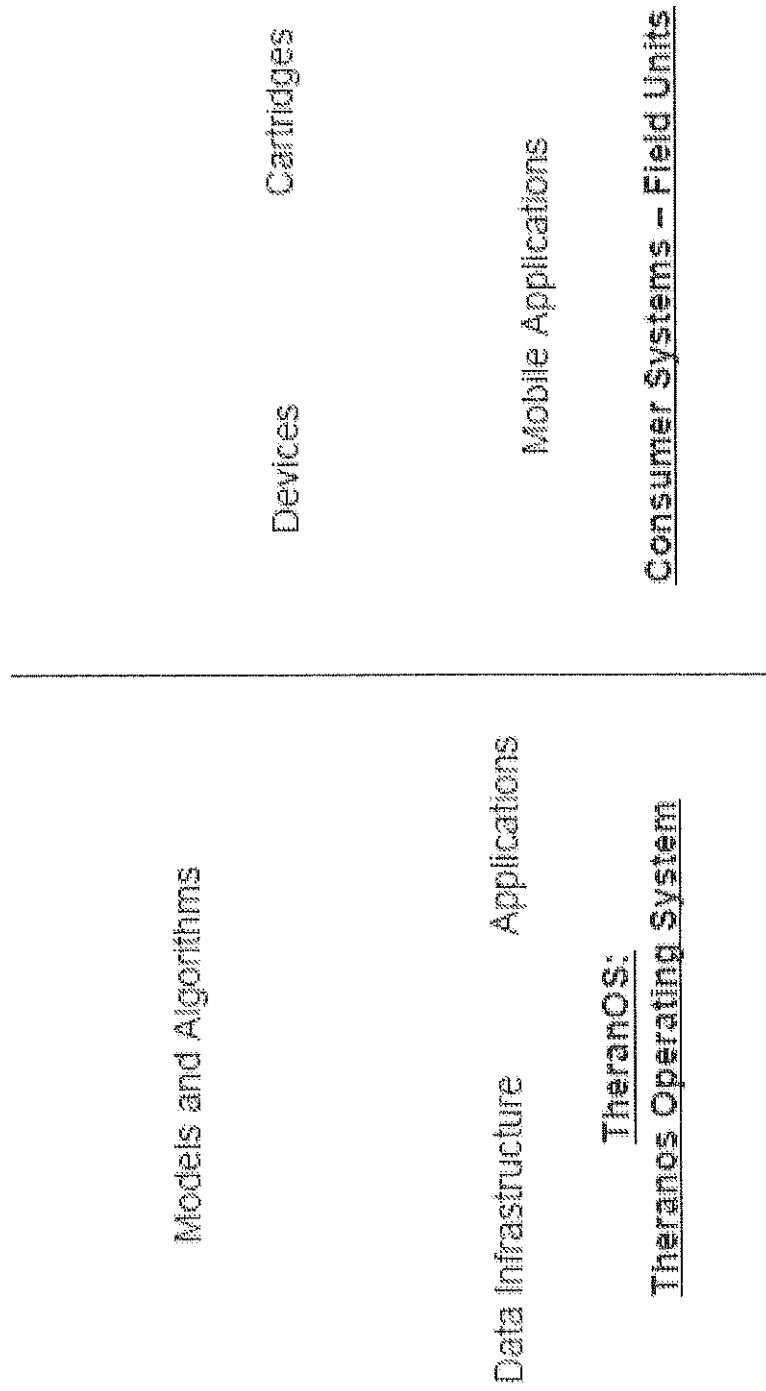


FIG. 12

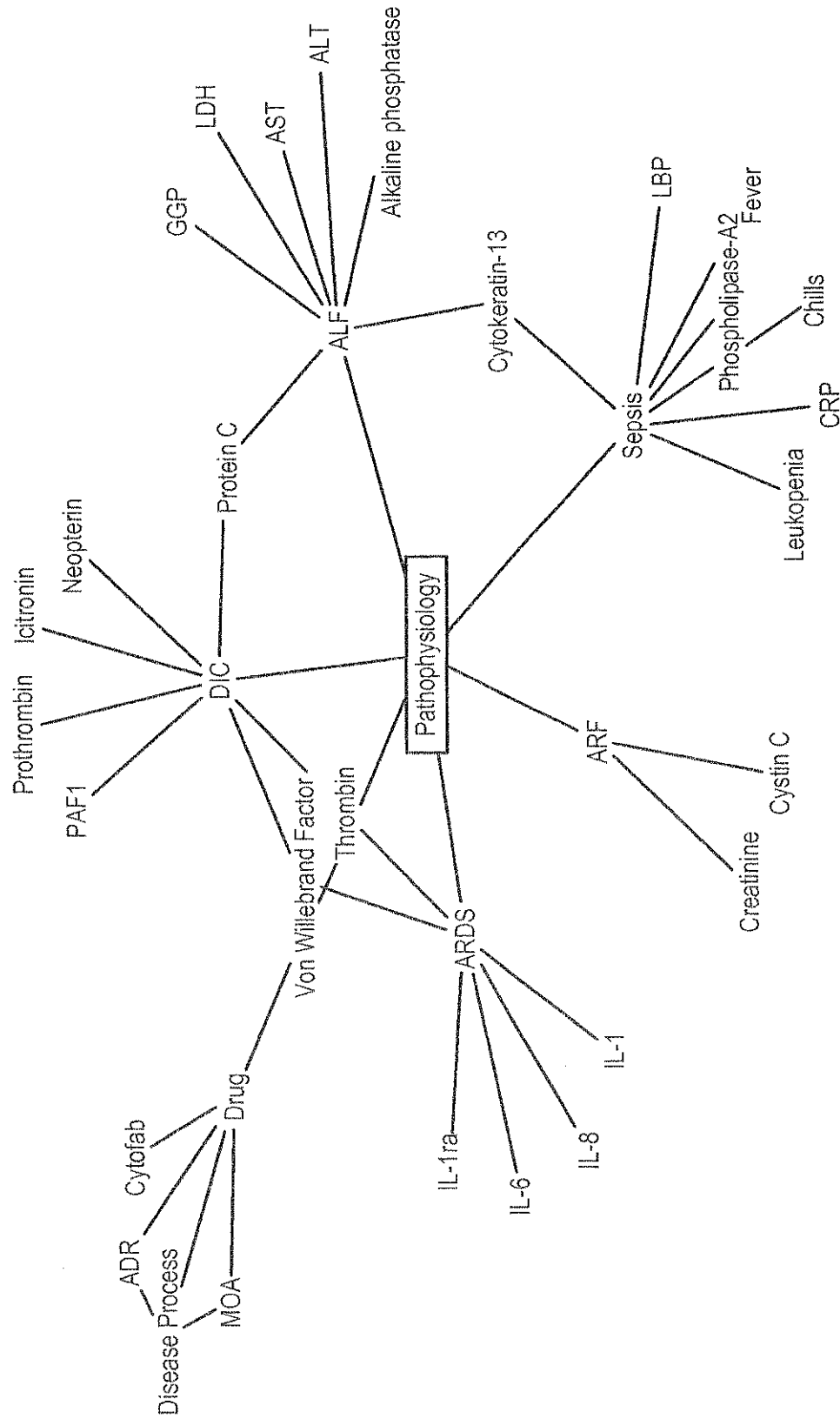


FIG. 13

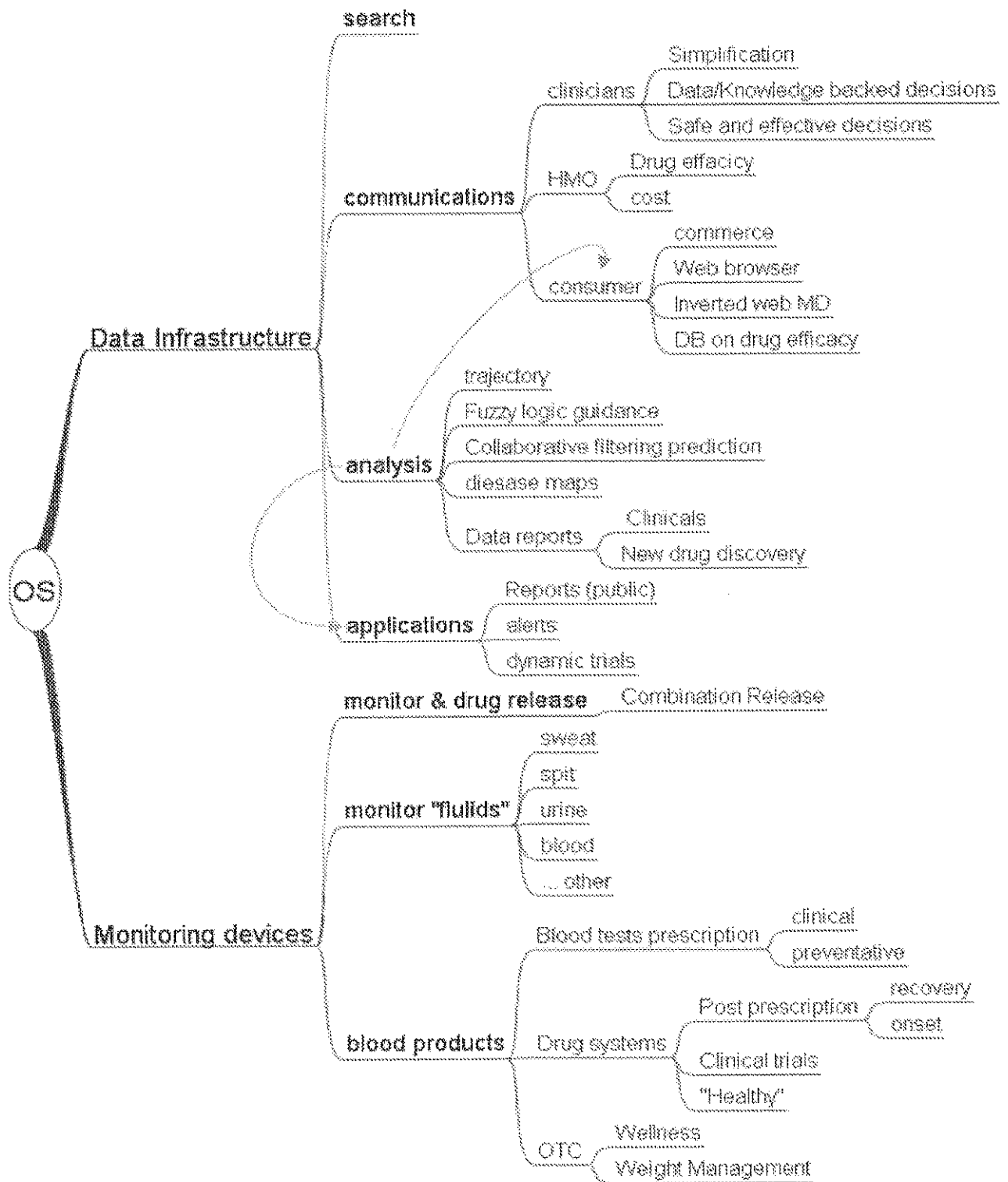


FIG. 14

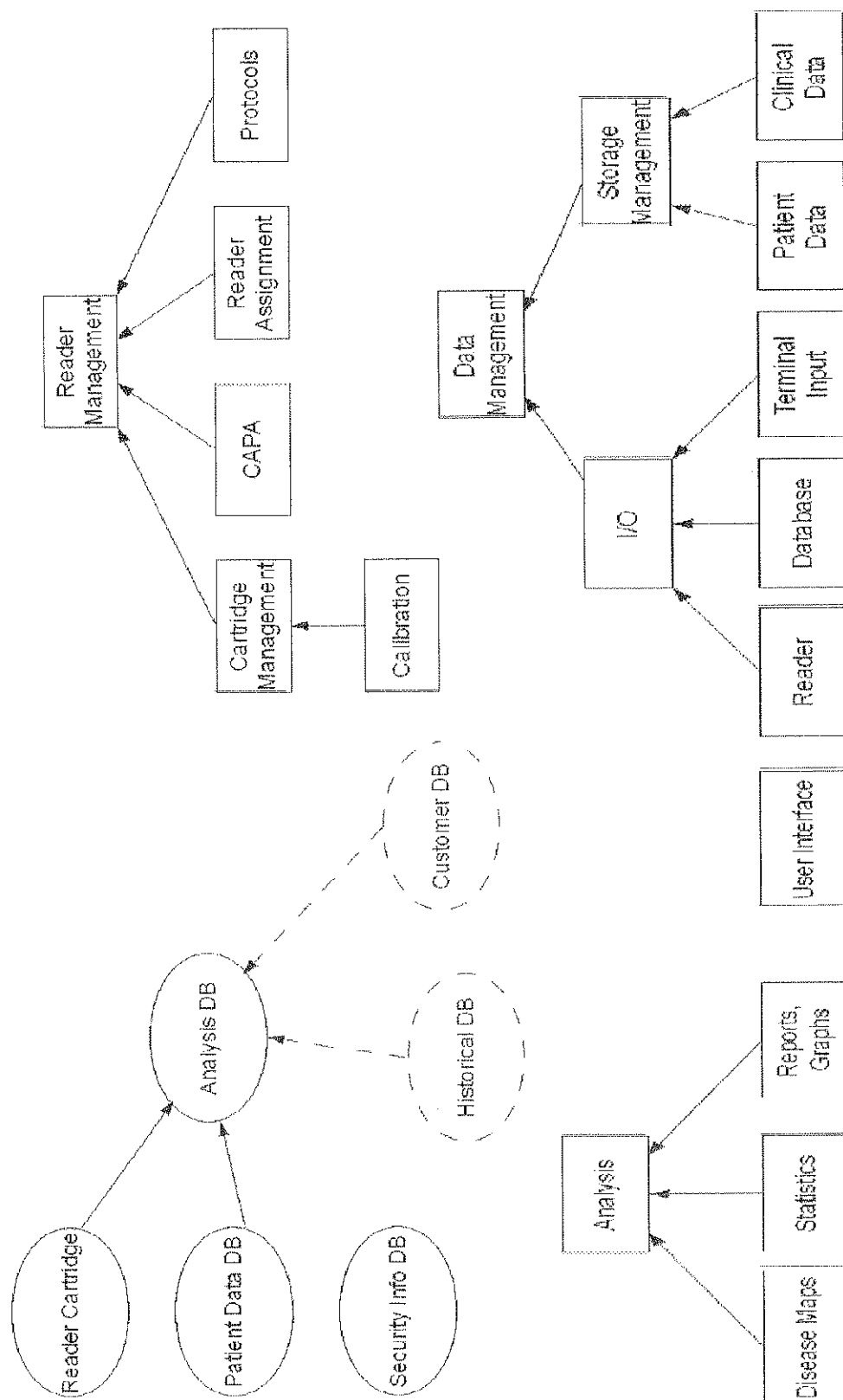


FIG. 15

Probability Space Map Prostate Cancer and Anti-Angiogenesis

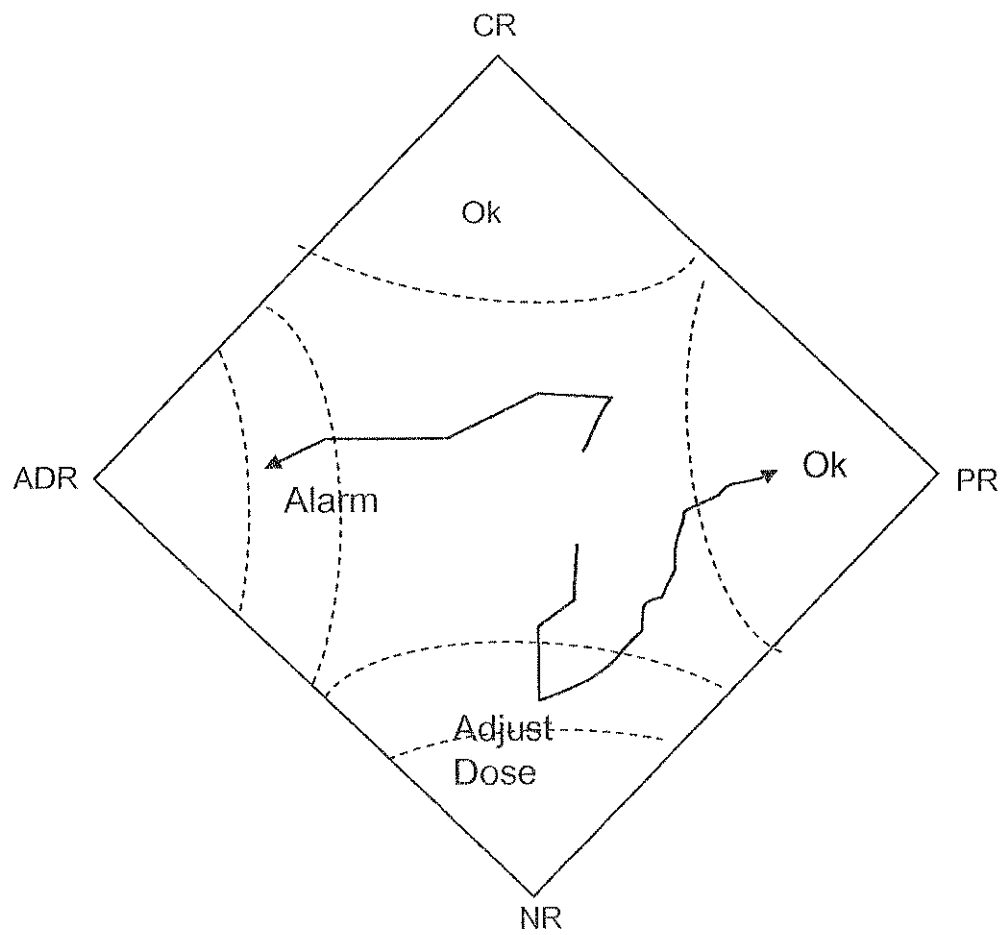


FIG. 16

Probability Space Map Sepsis and AntTNF

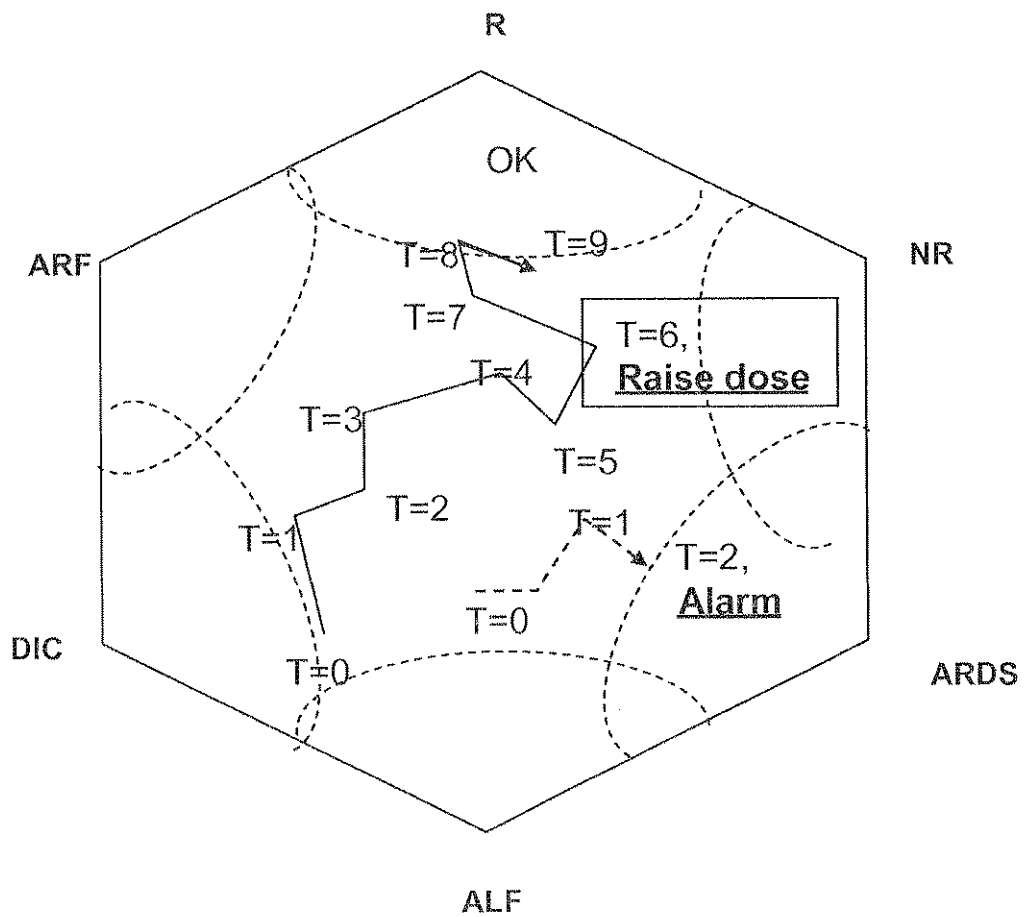


FIG. 17

Probability Space Map Diabetes & Insulin Sensitization

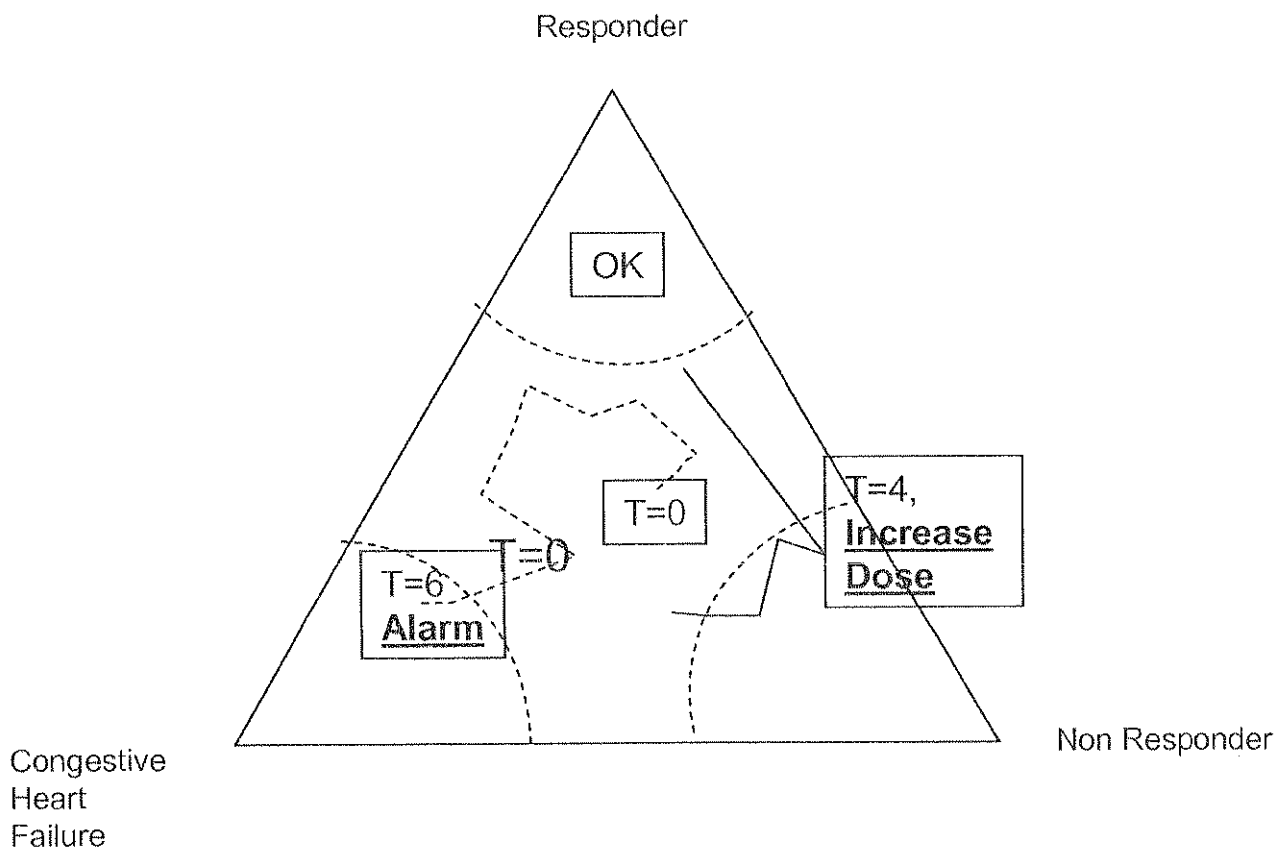


FIG. 18

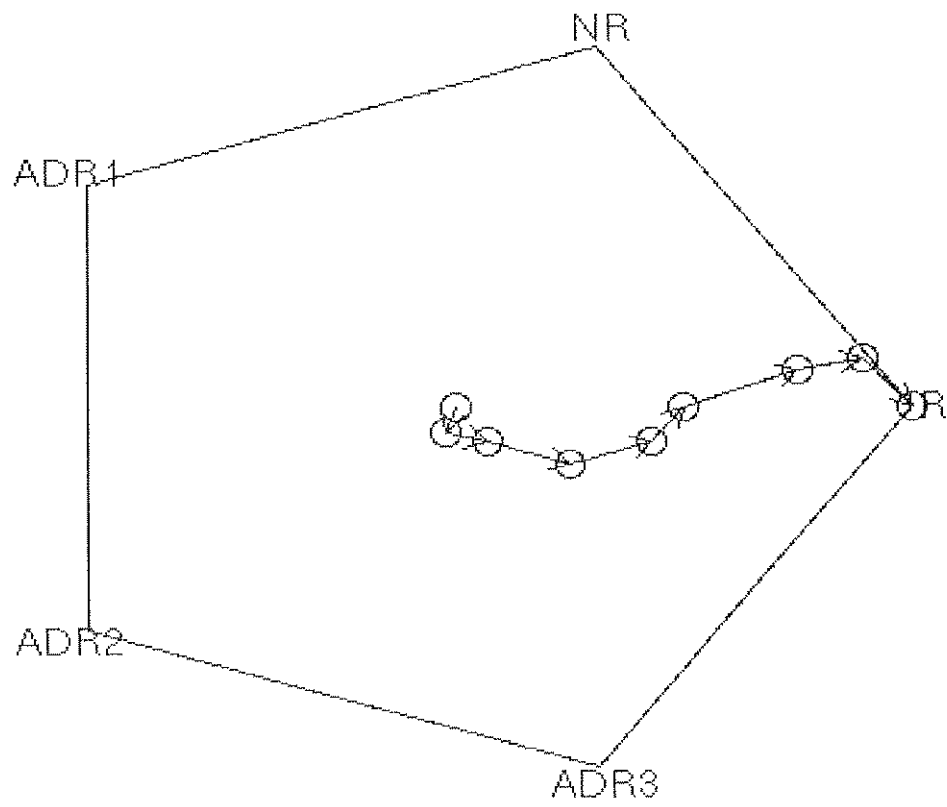


FIG. 19

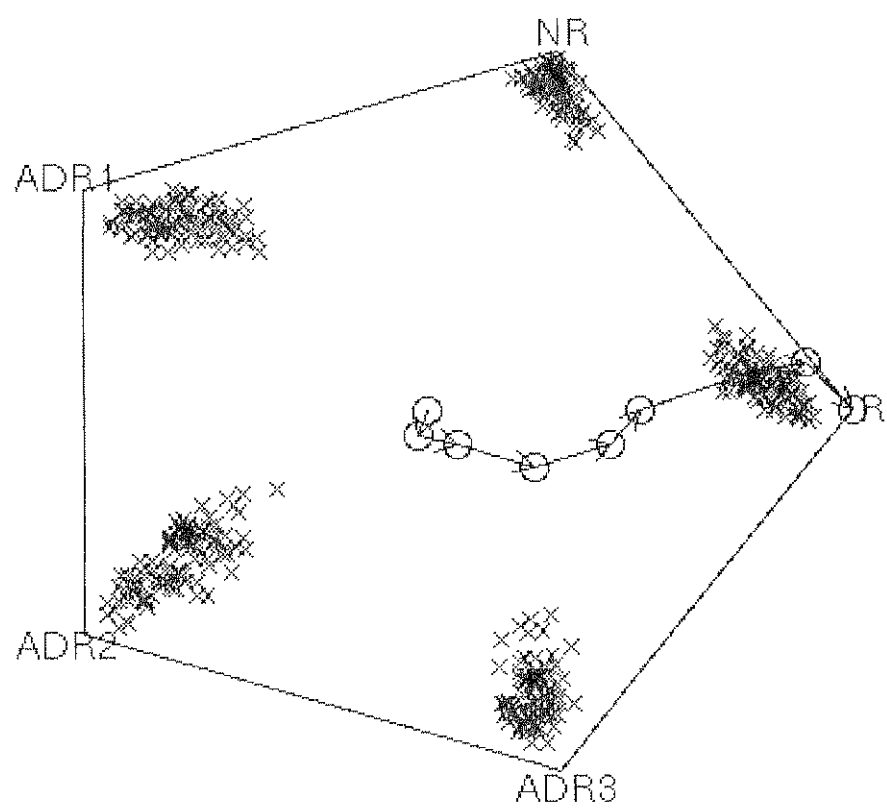
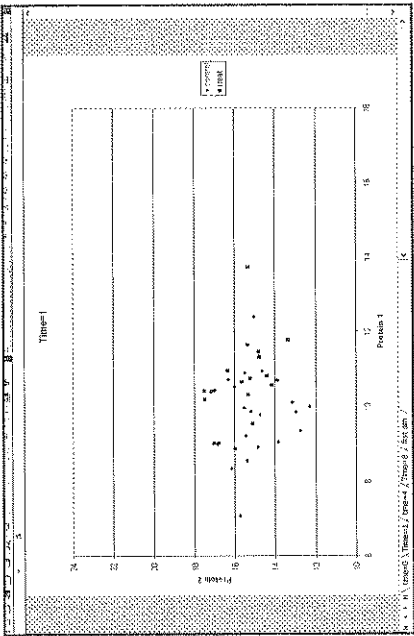
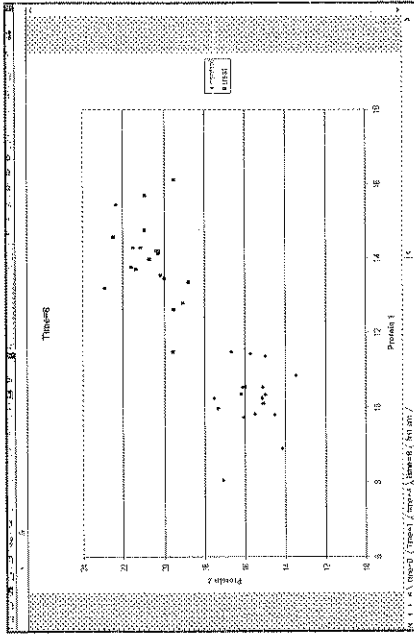


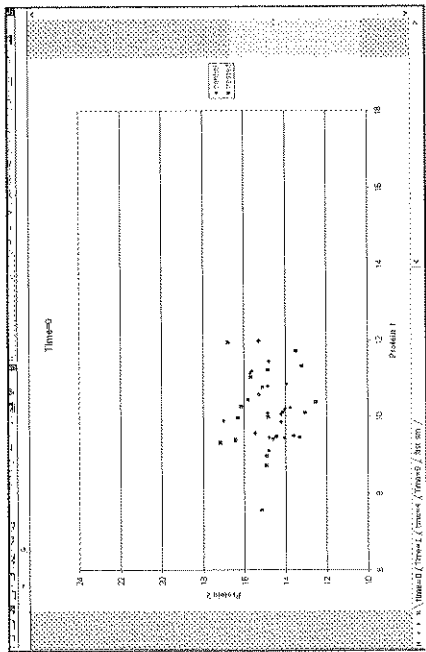
FIG. 20



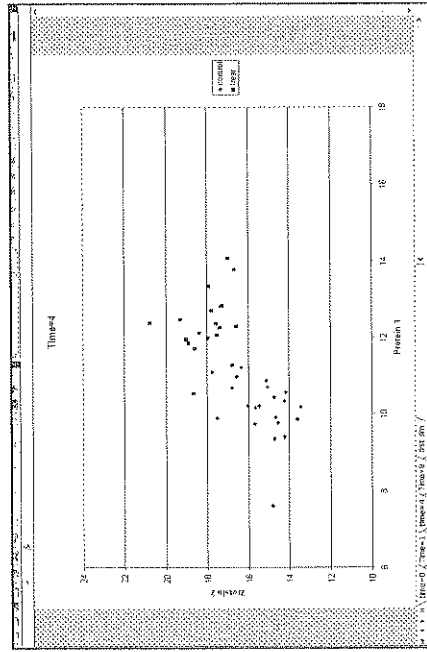
TIME 1



TIME 8



TIME 0



TIME 4

FIG. 21

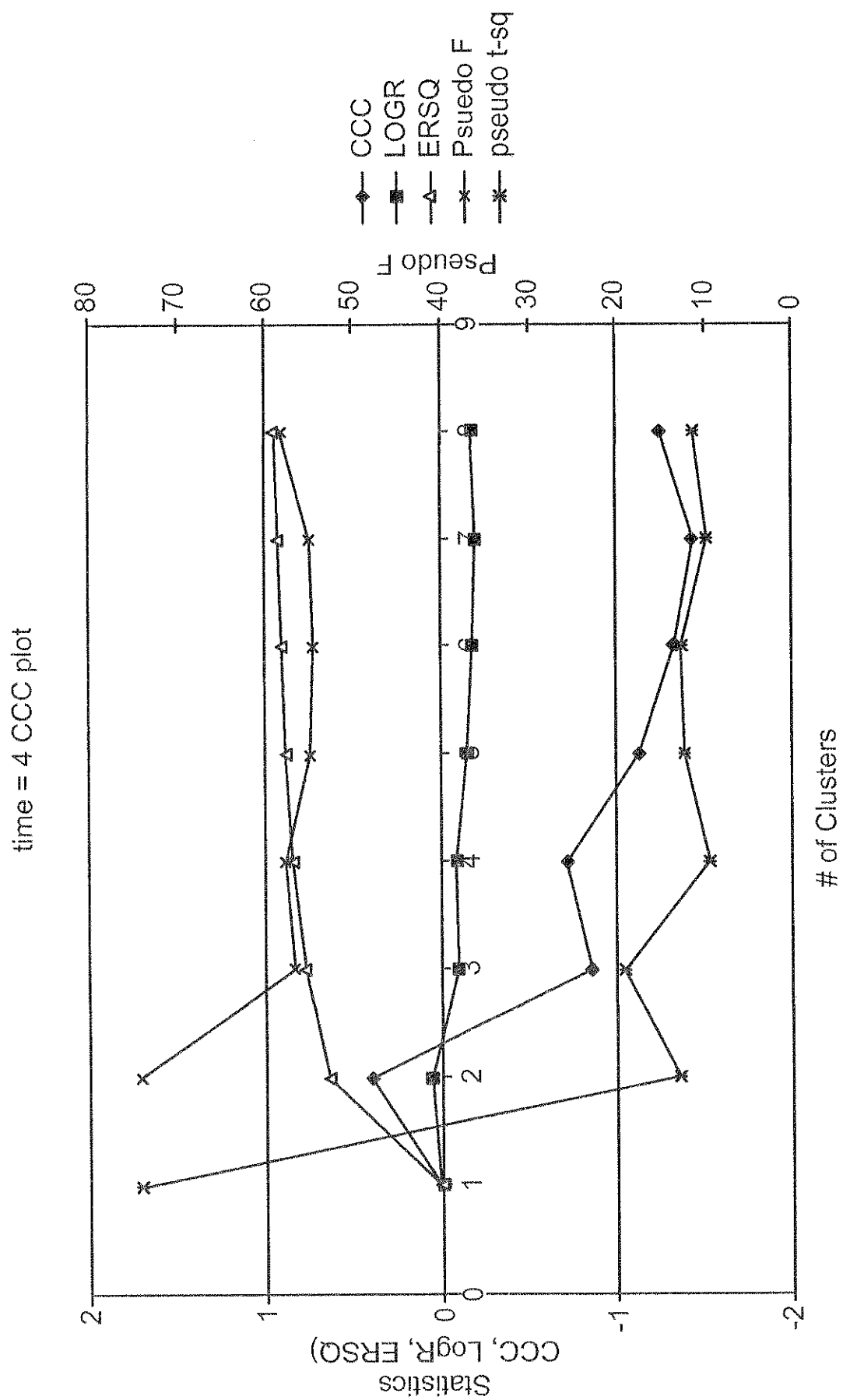


FIG. 22

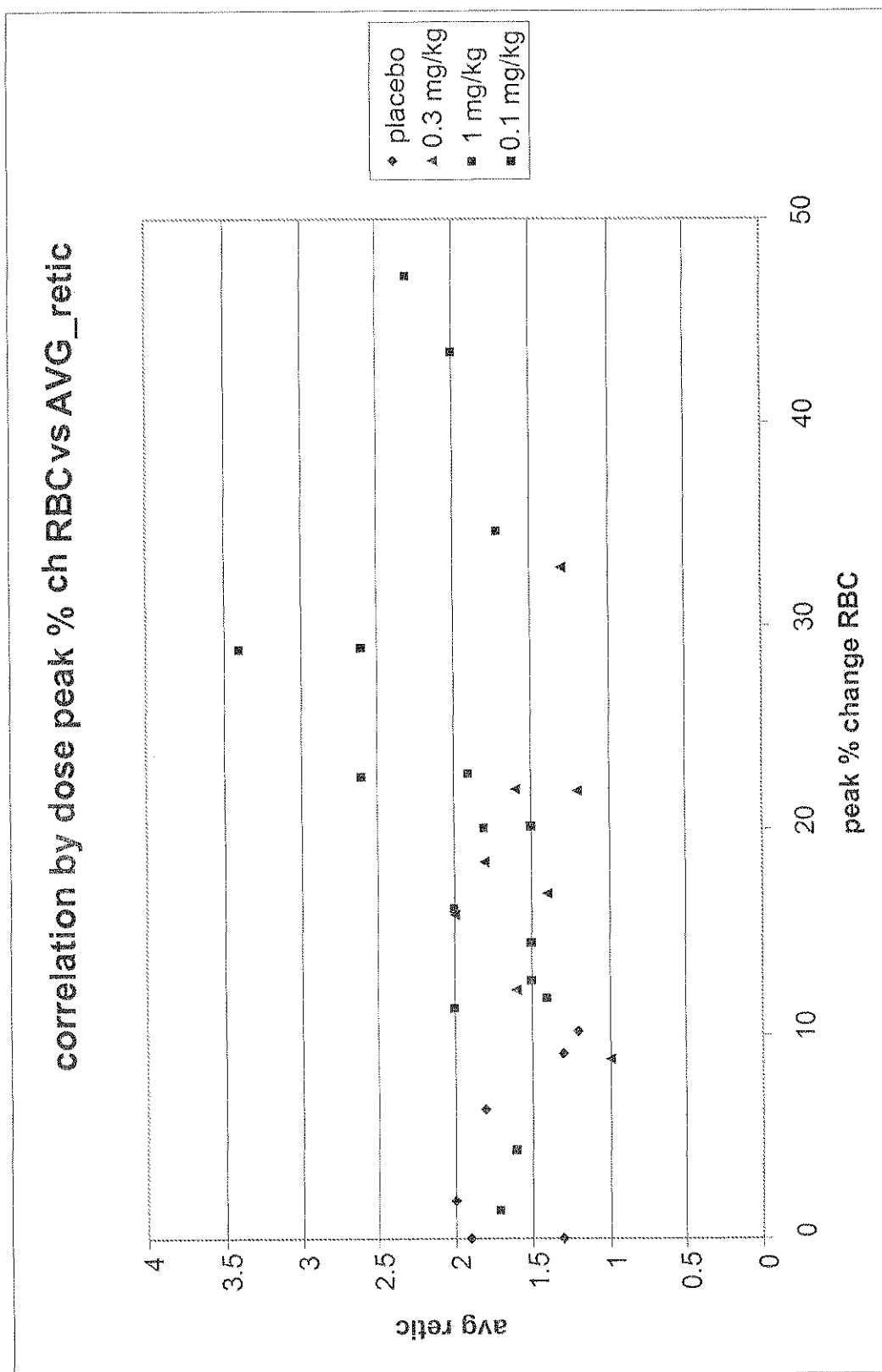


FIG. 23

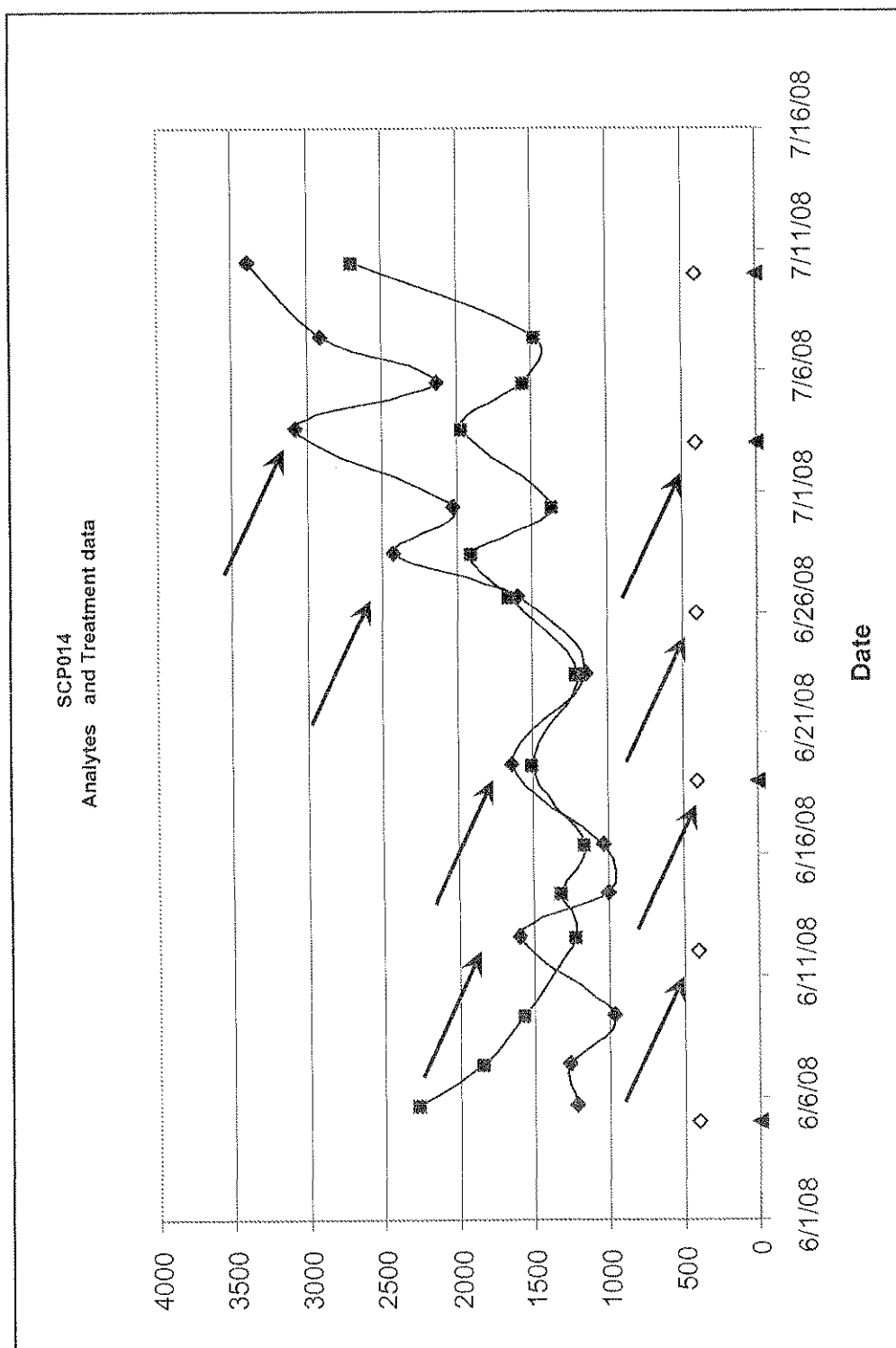


FIG. 24

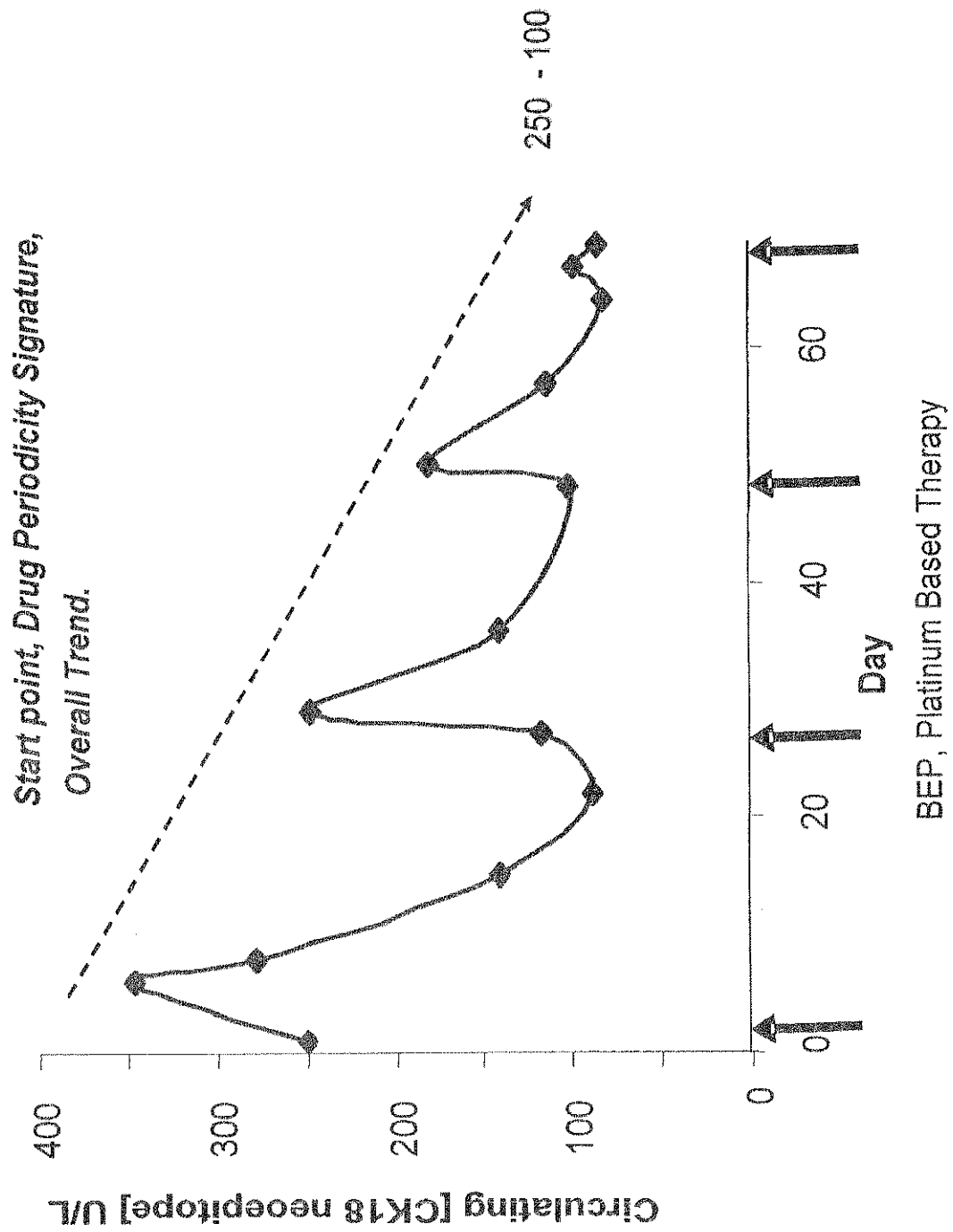


FIG. 25

A theoretical model for predicting a fever spike in AML Febrile neutropenia

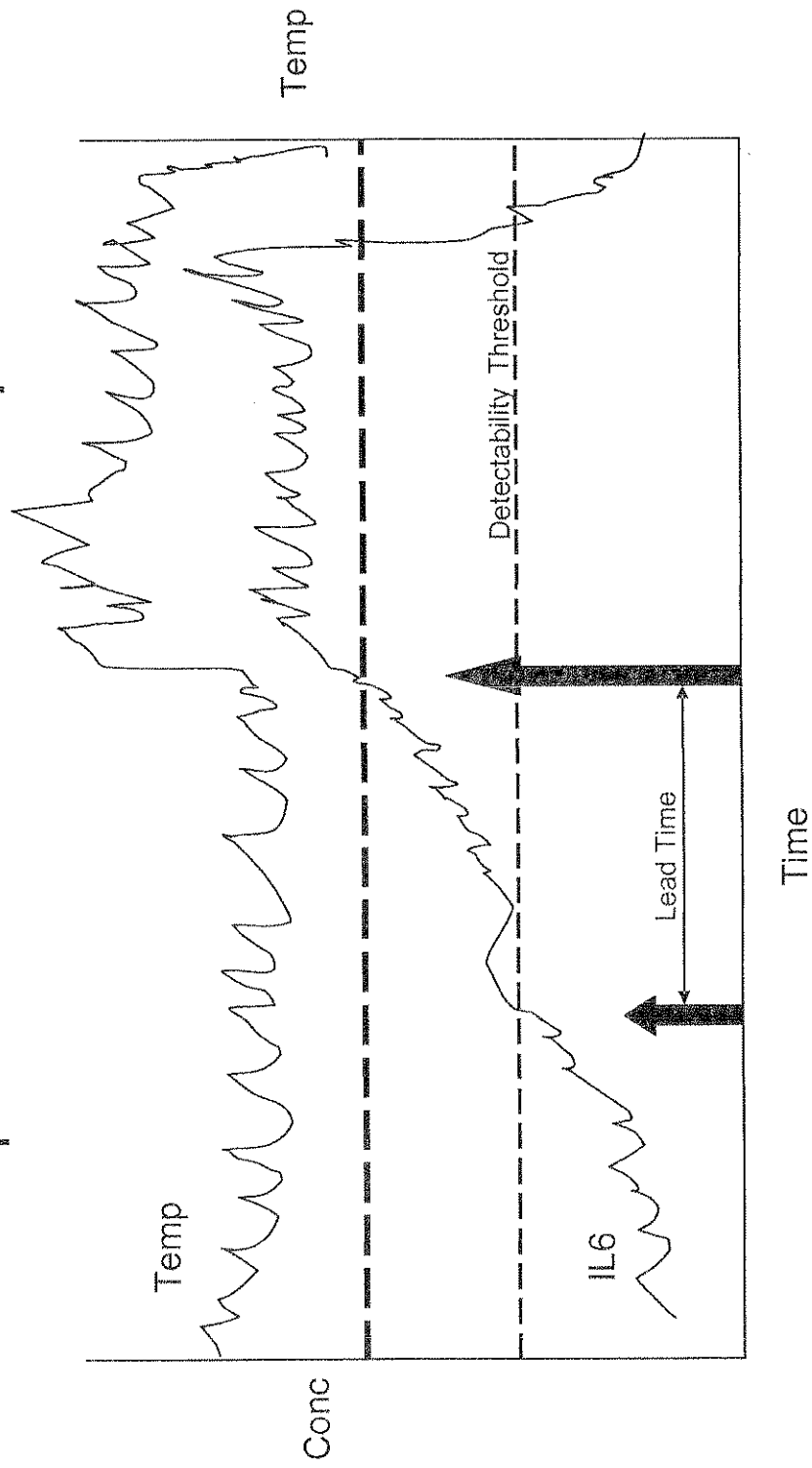


FIG. 26

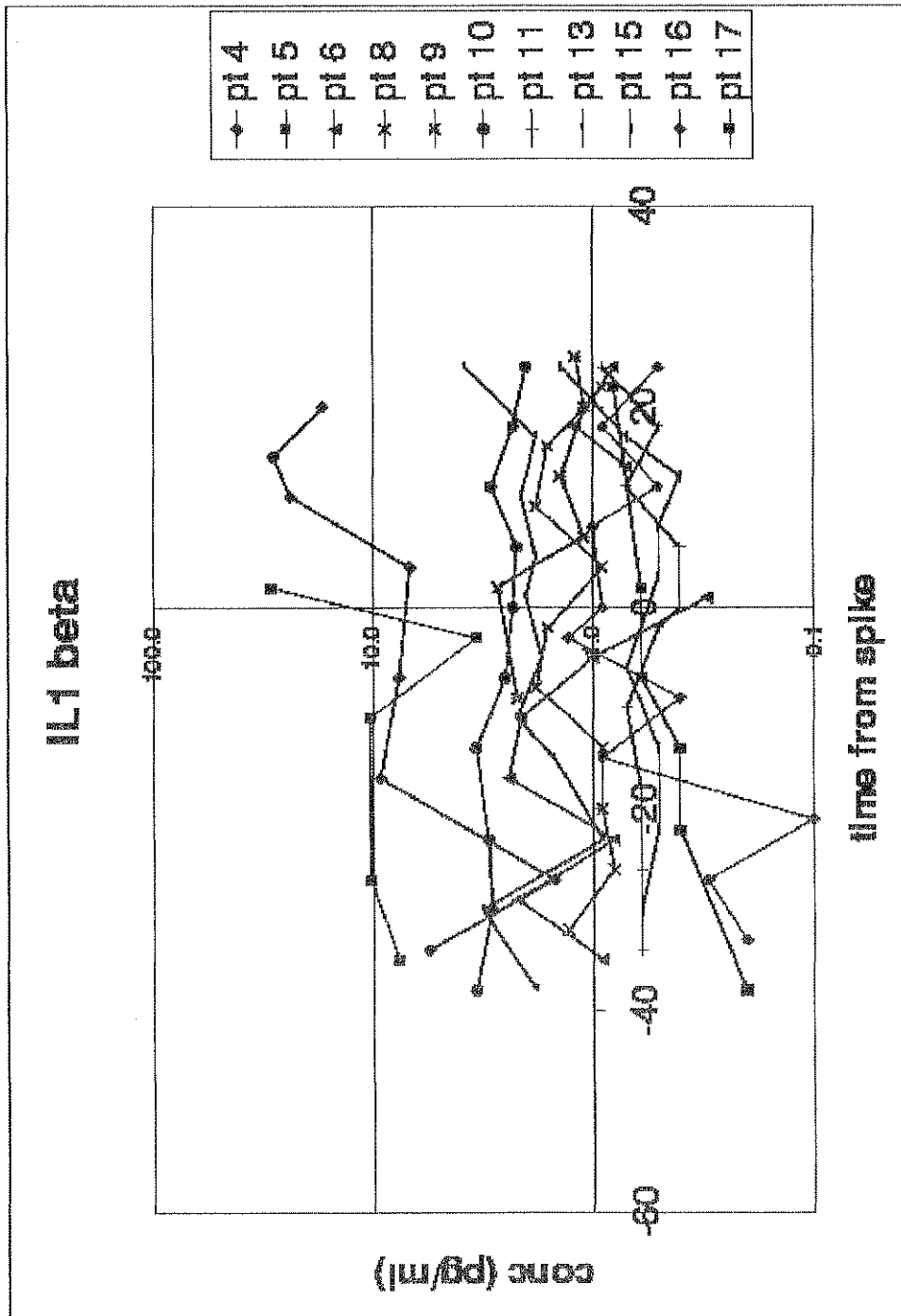


FIG. 27

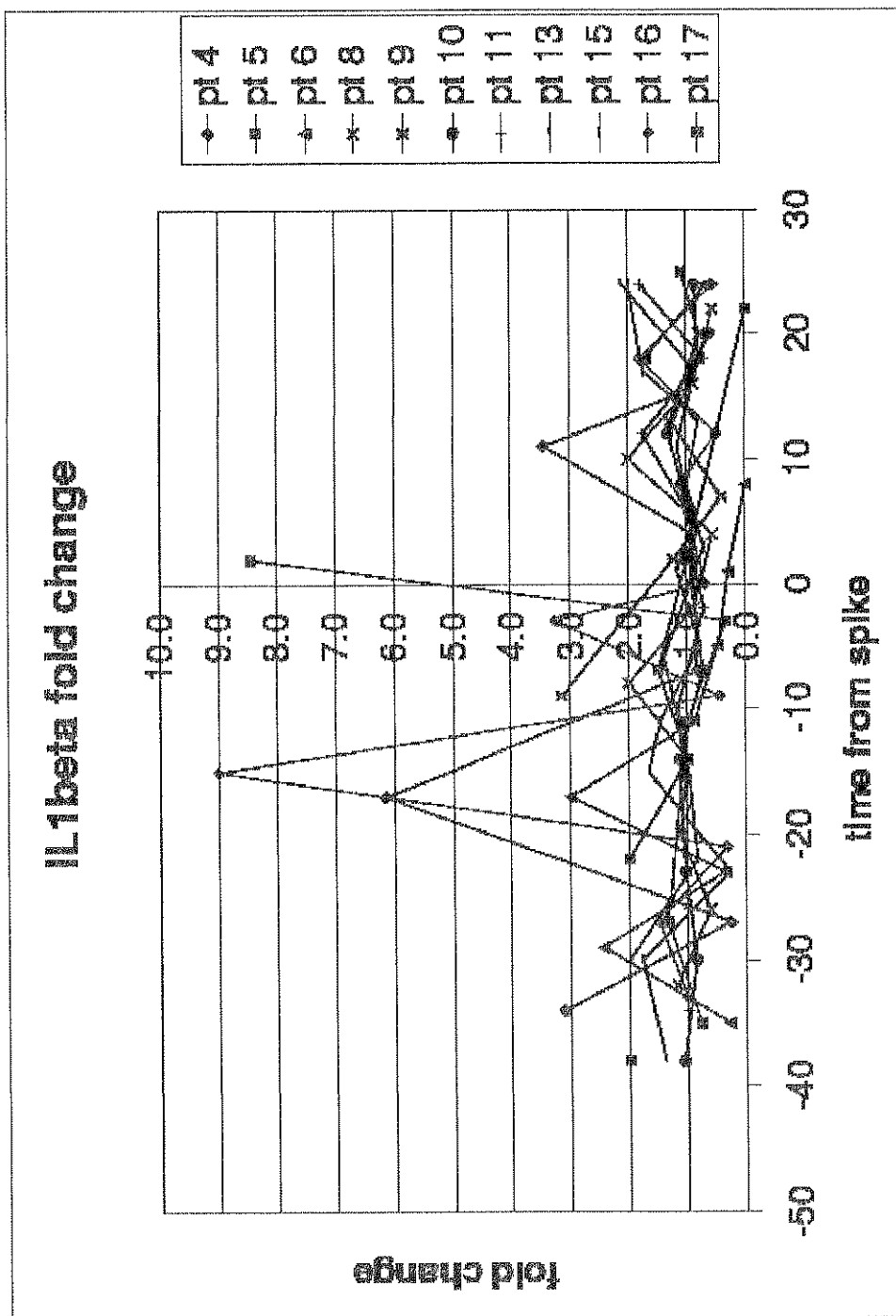


FIG. 28

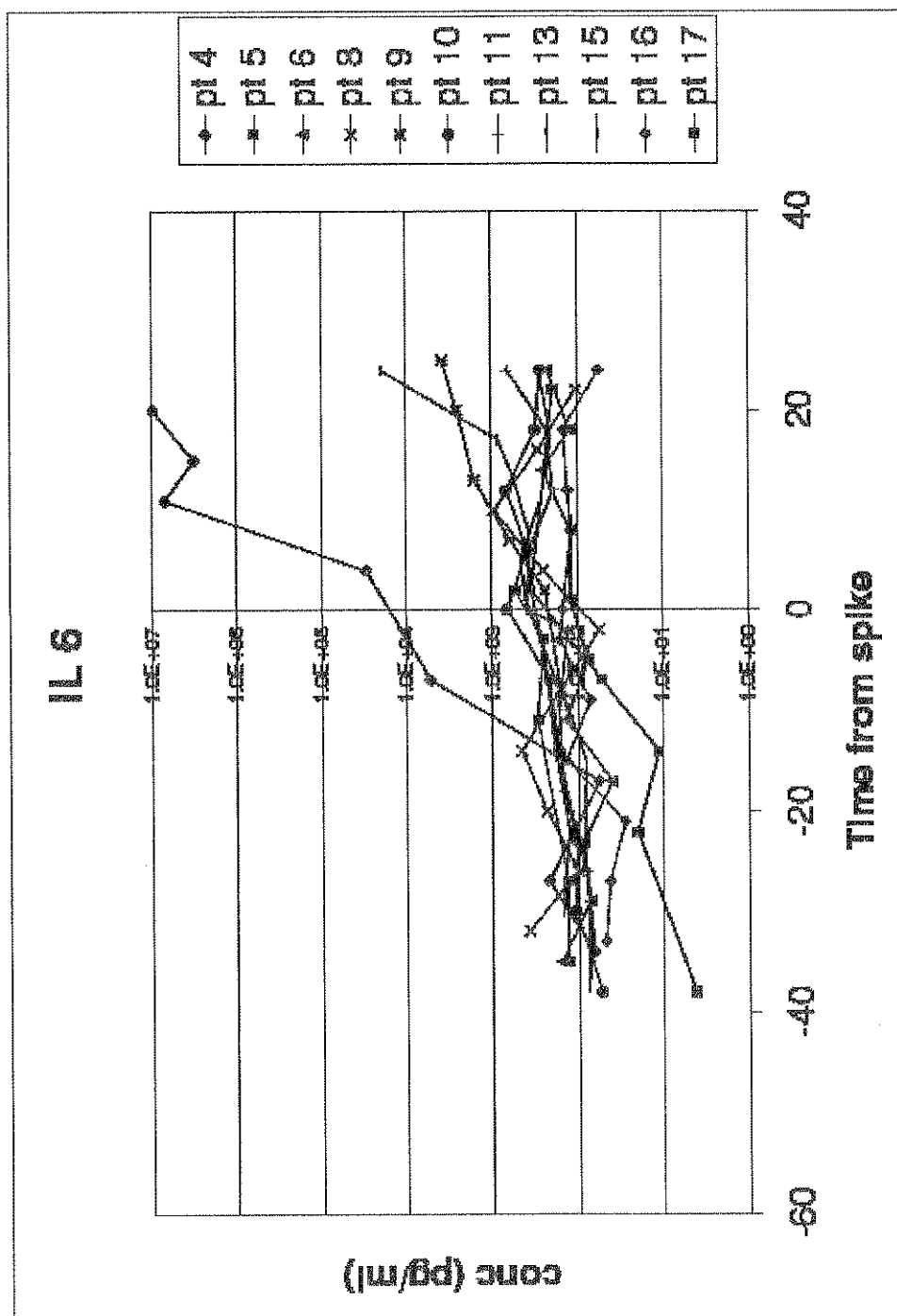


FIG. 29

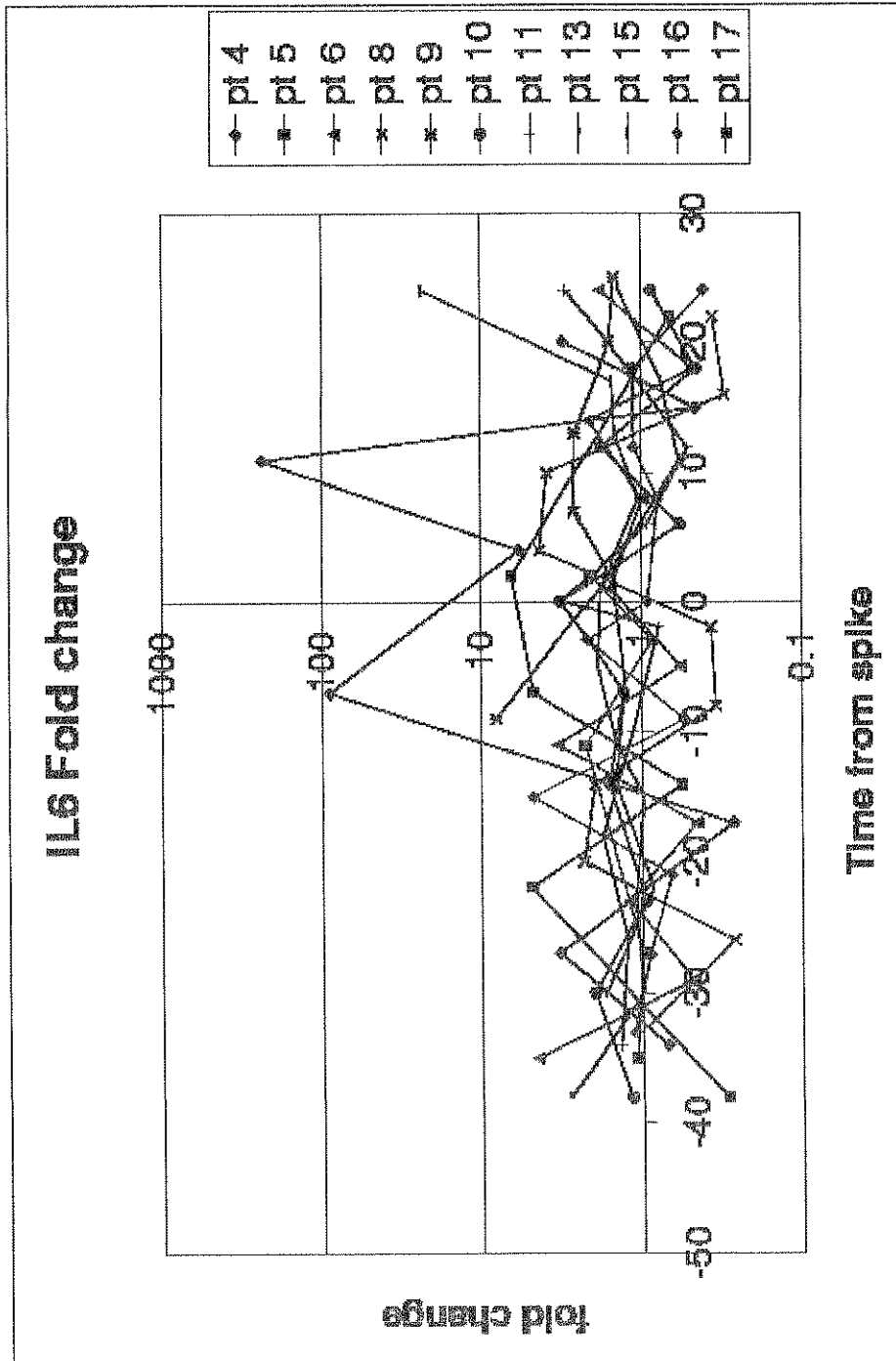


FIG. 30

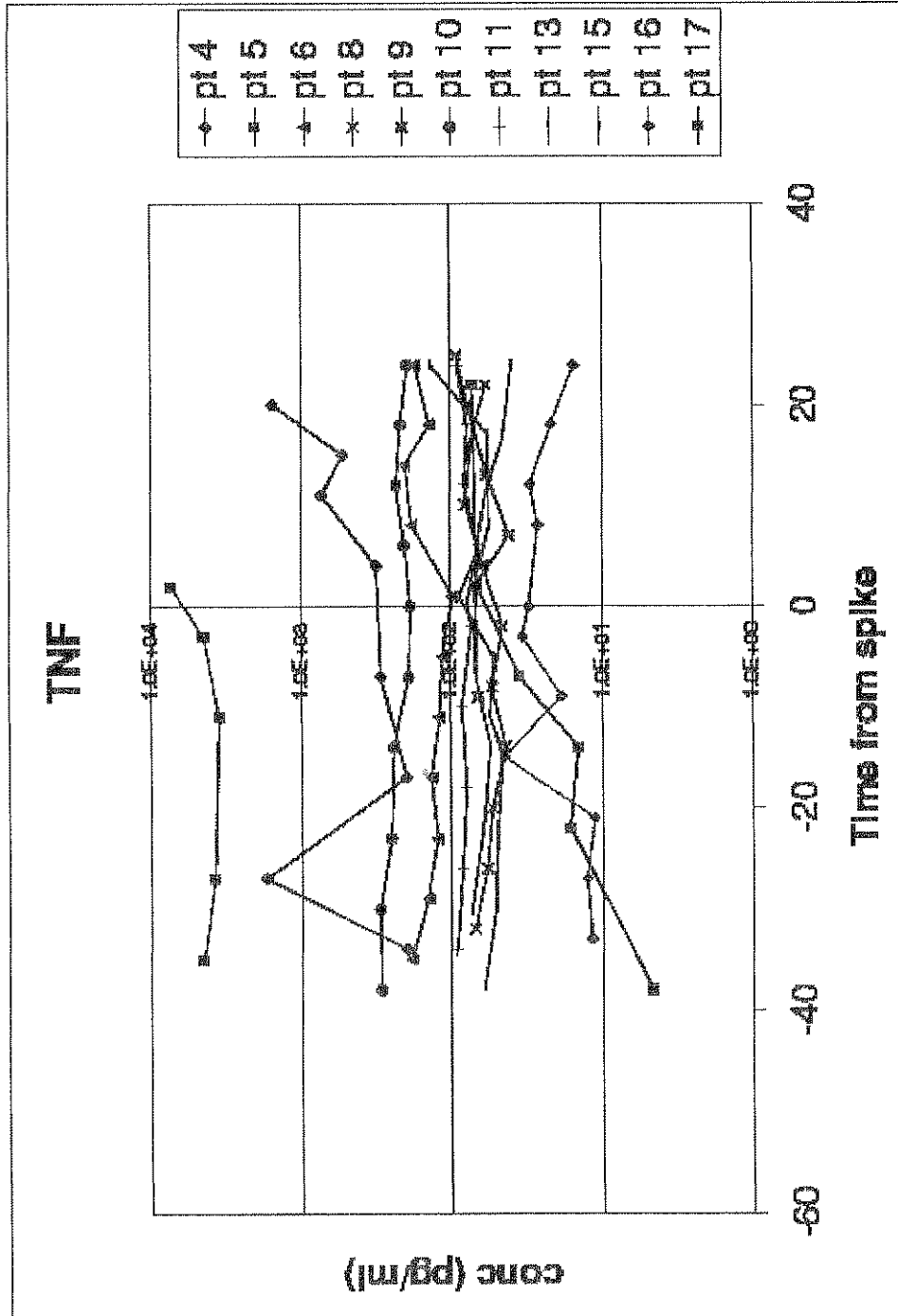


FIG. 31

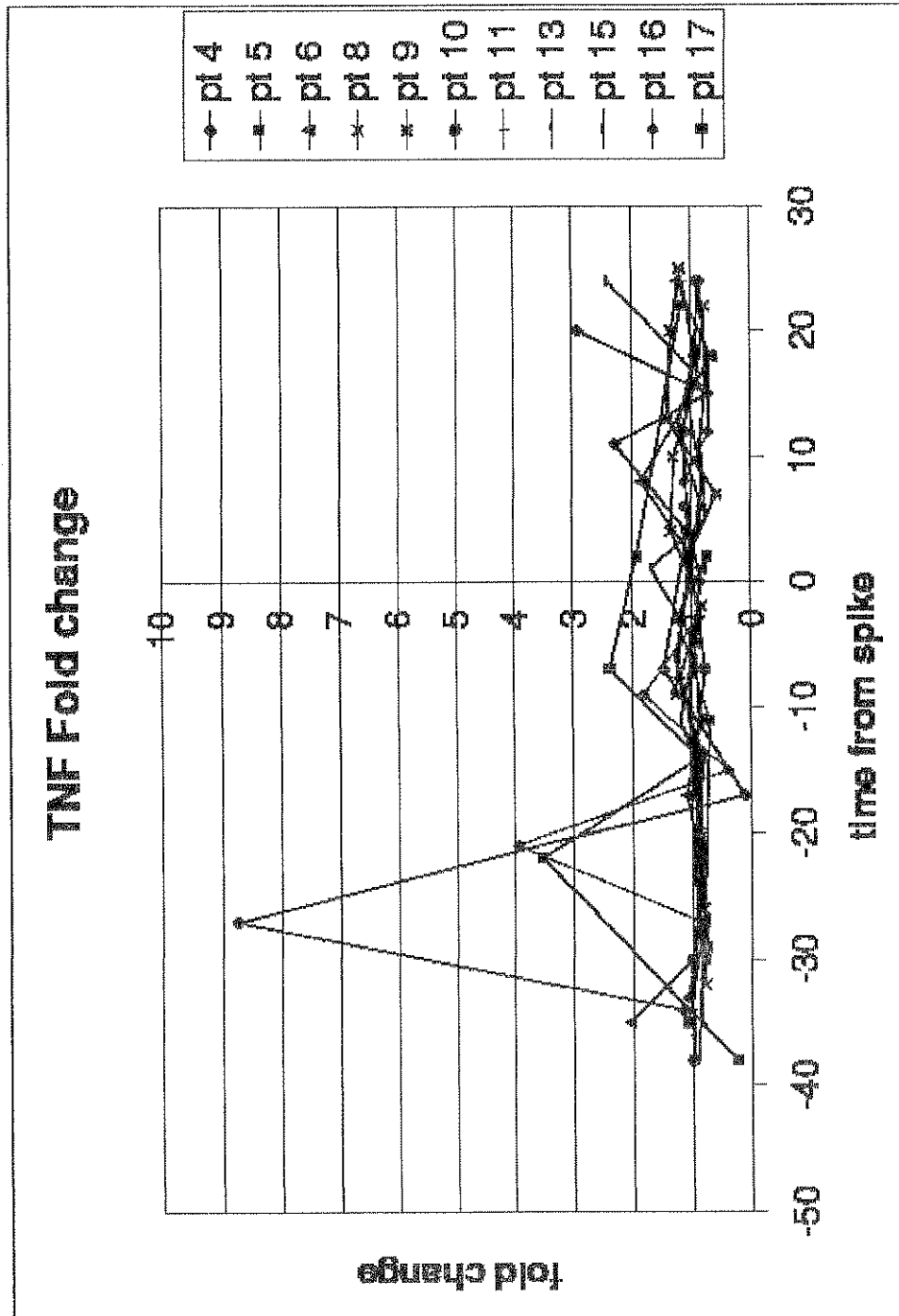


FIG. 32

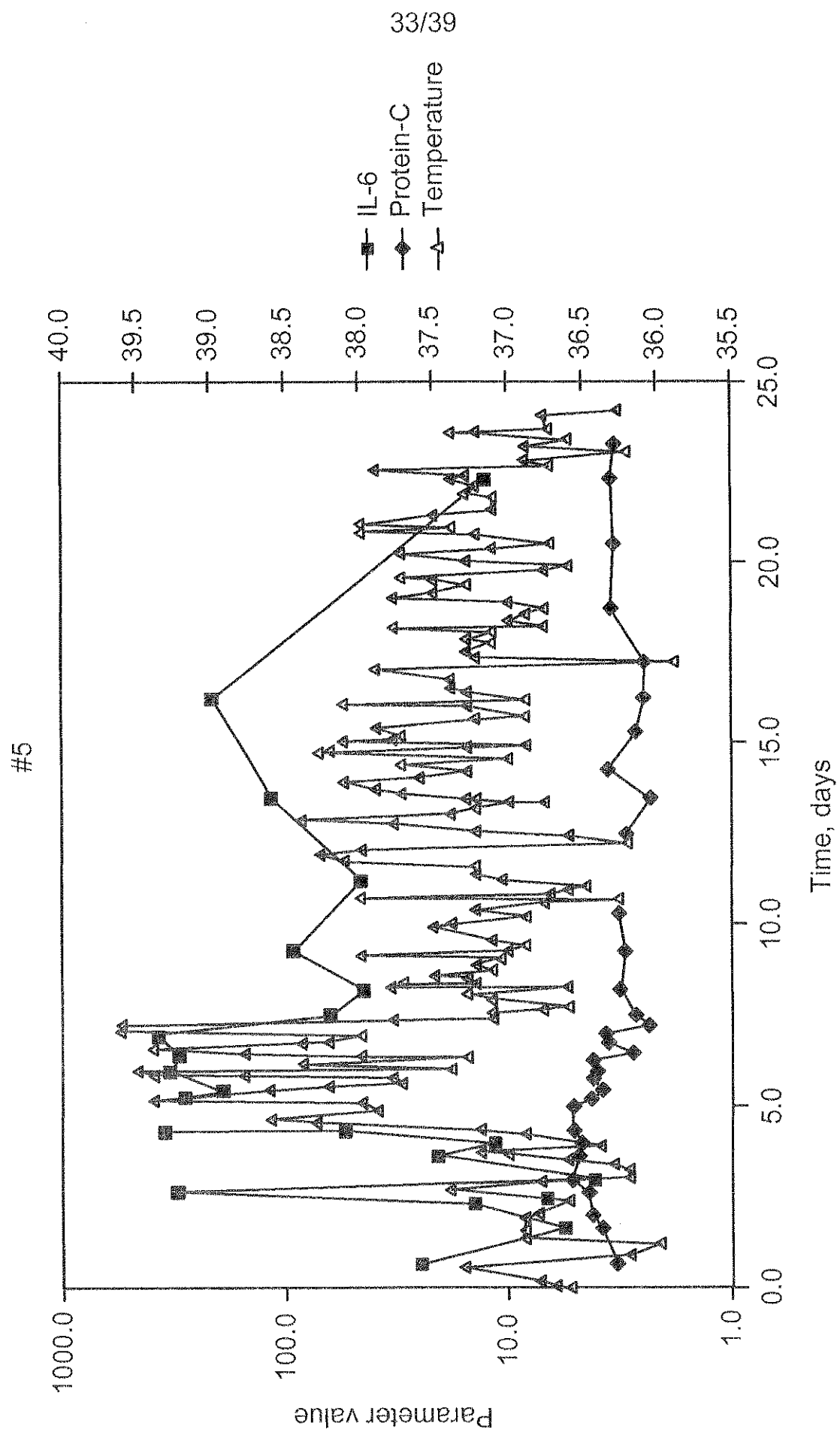


FIG. 33

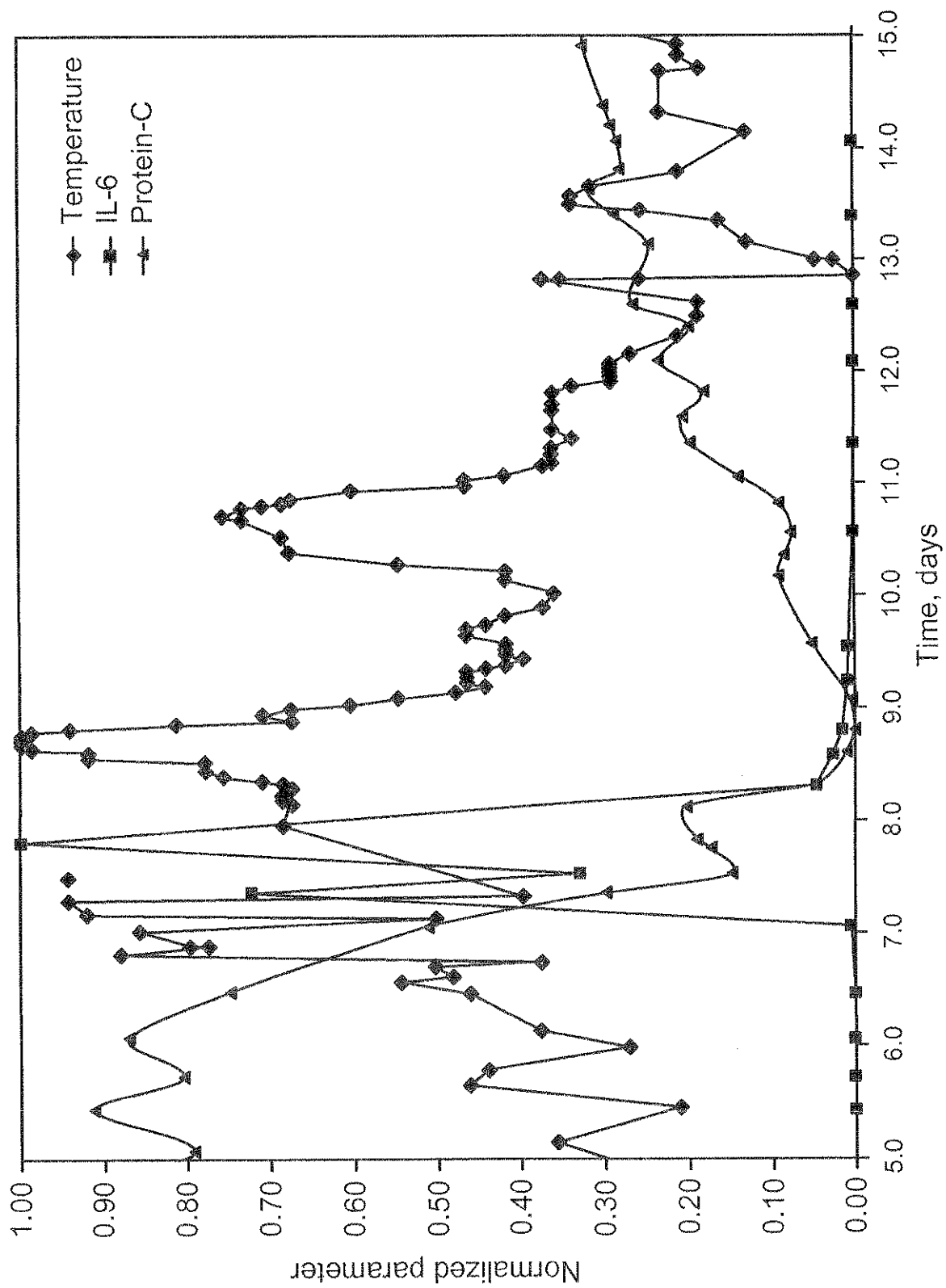


FIG. 34

Th1-Th2 switching

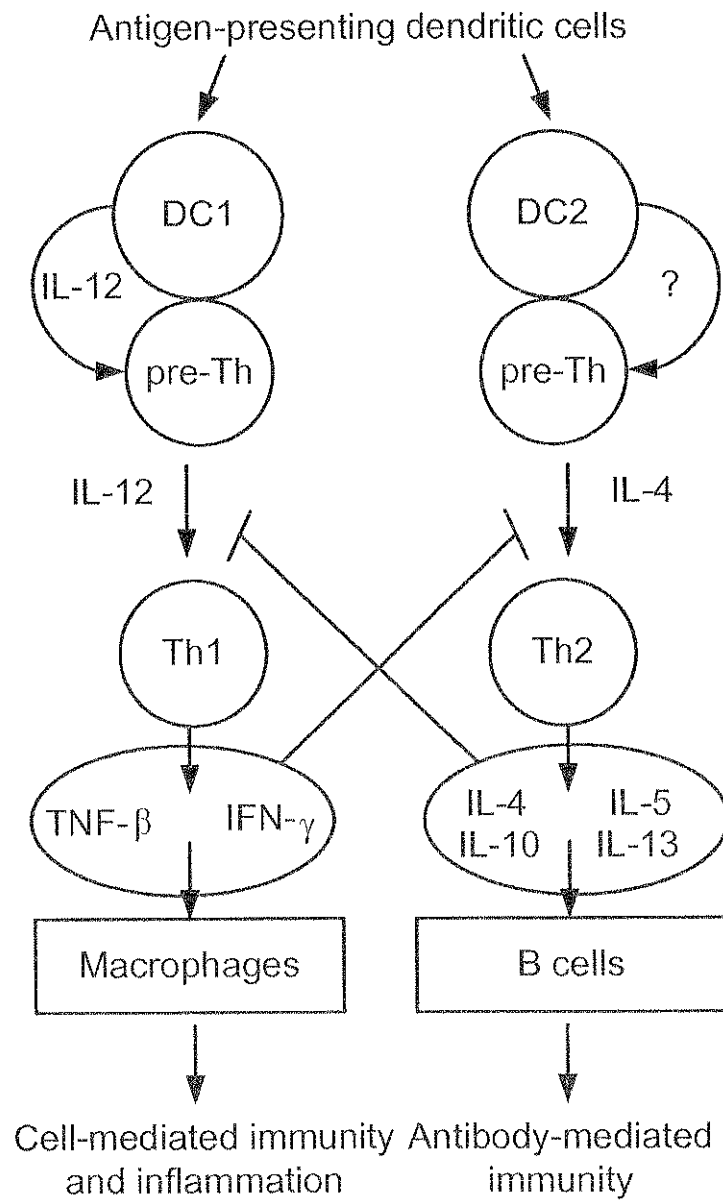


FIG. 35

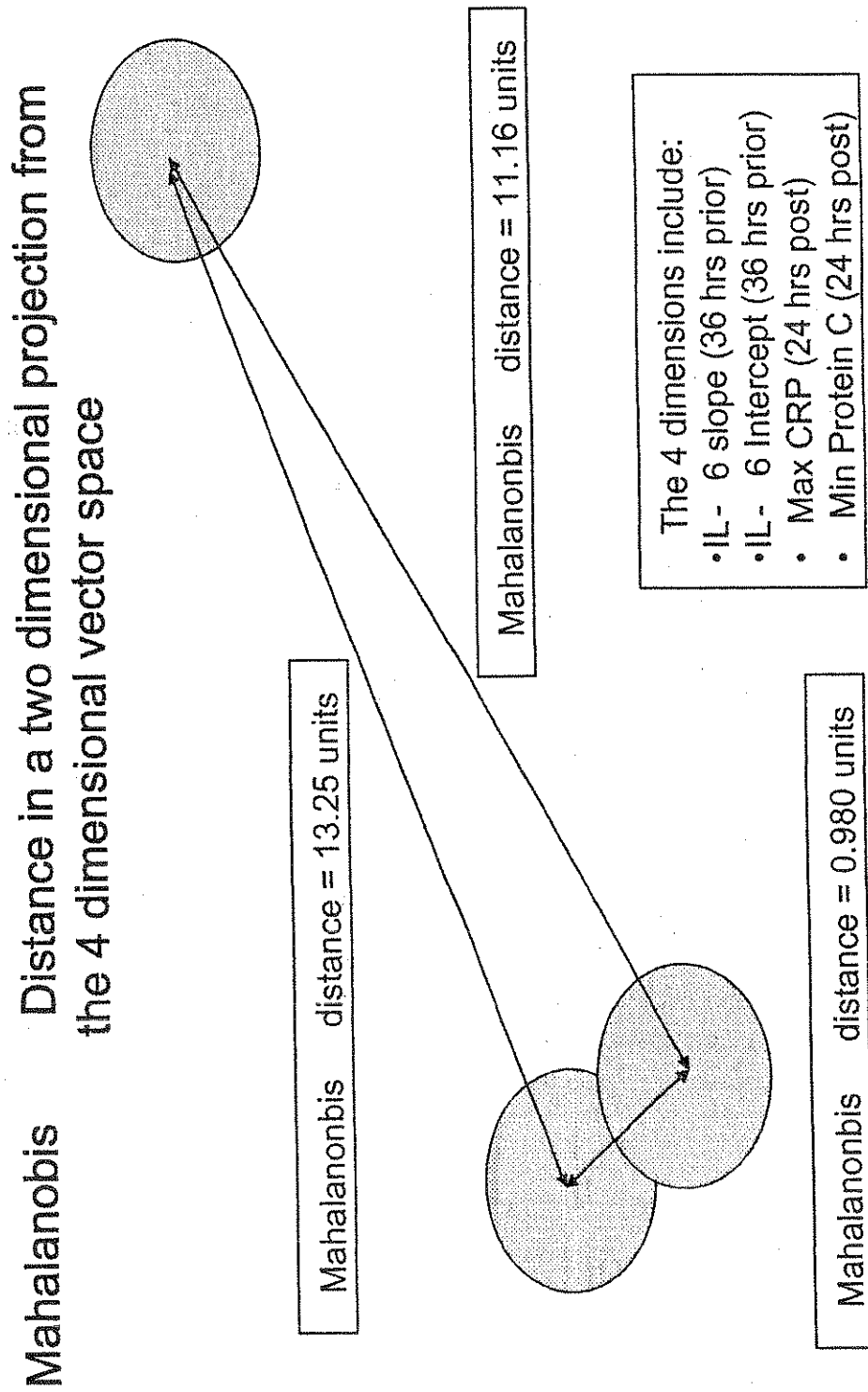


FIG. 36

Probability Landscape derived from 3 patient outcomes

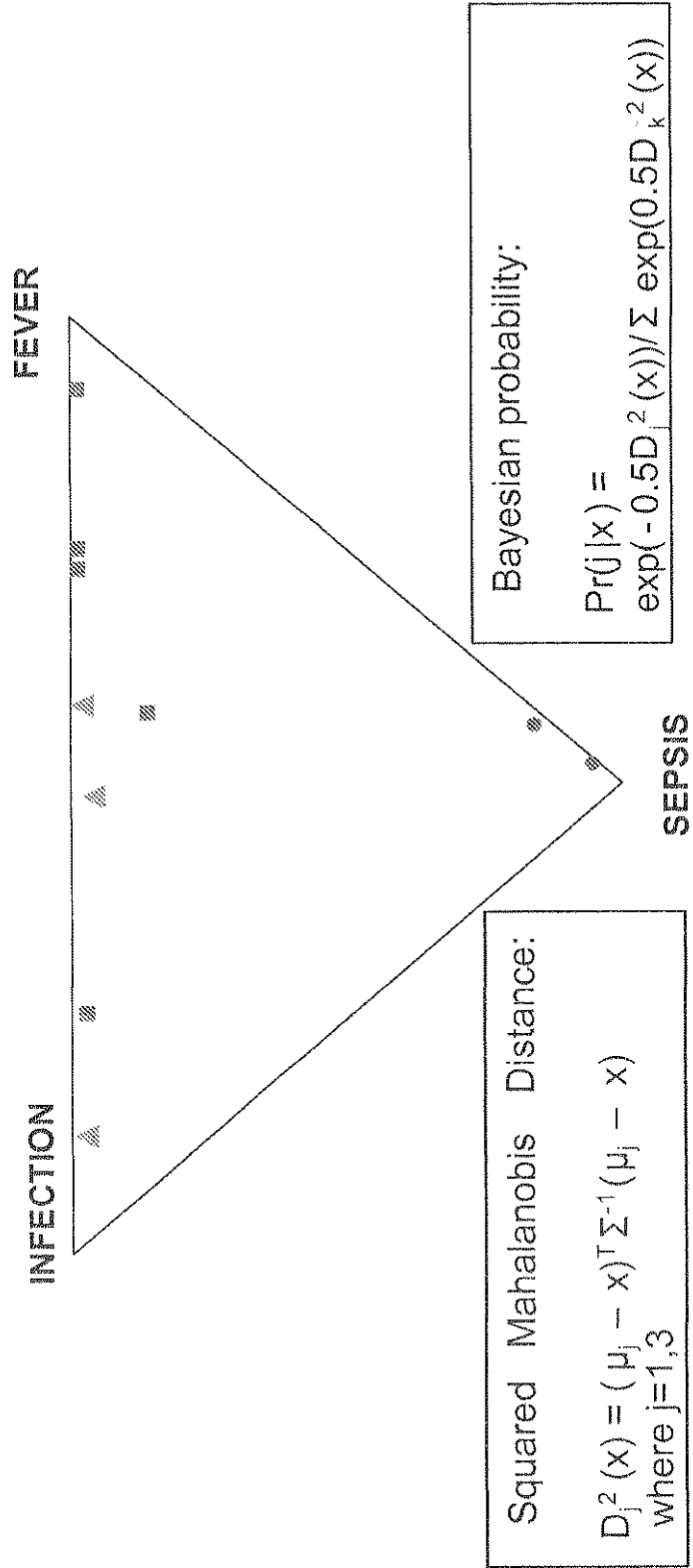


FIG. 37

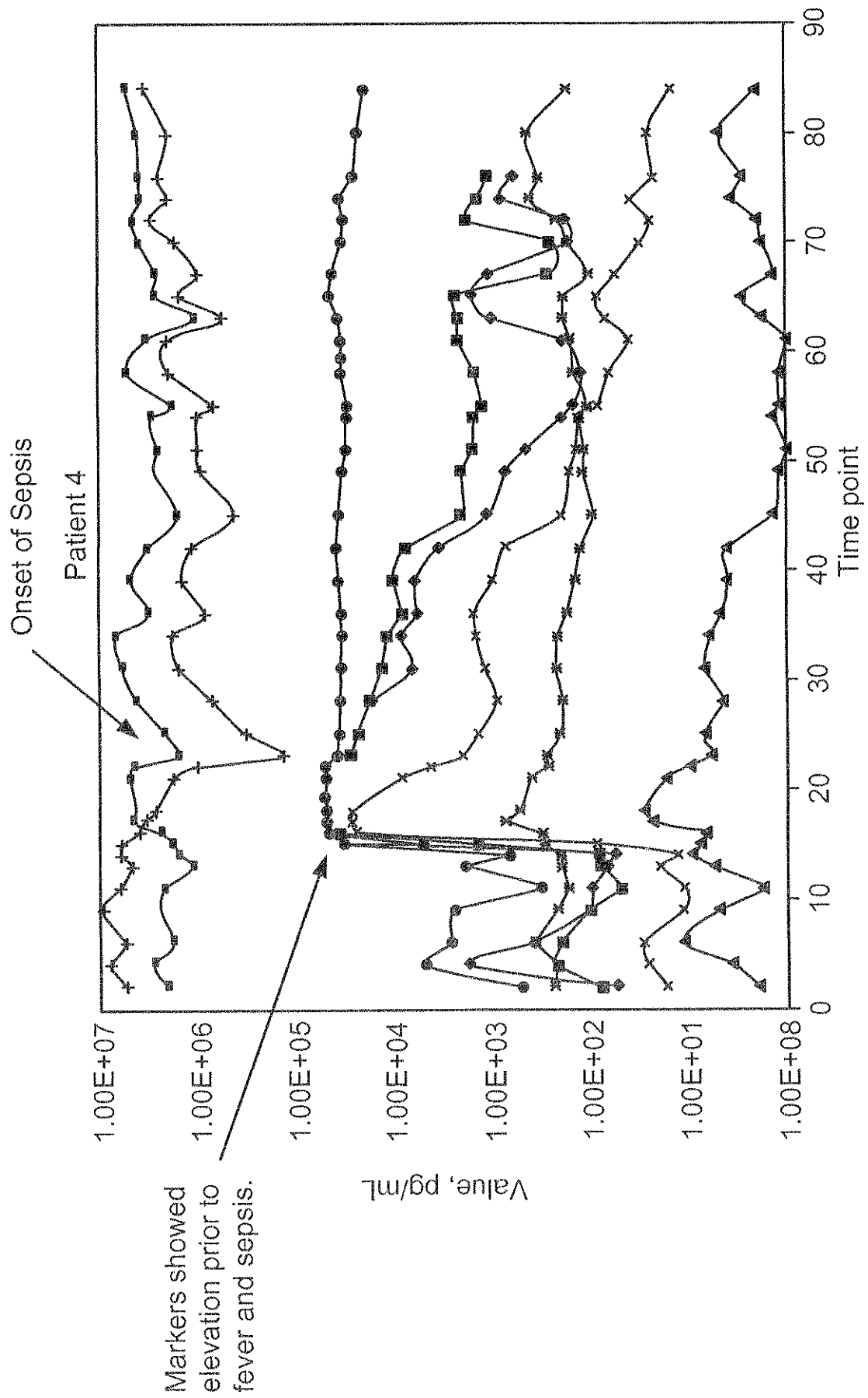


FIG. 38

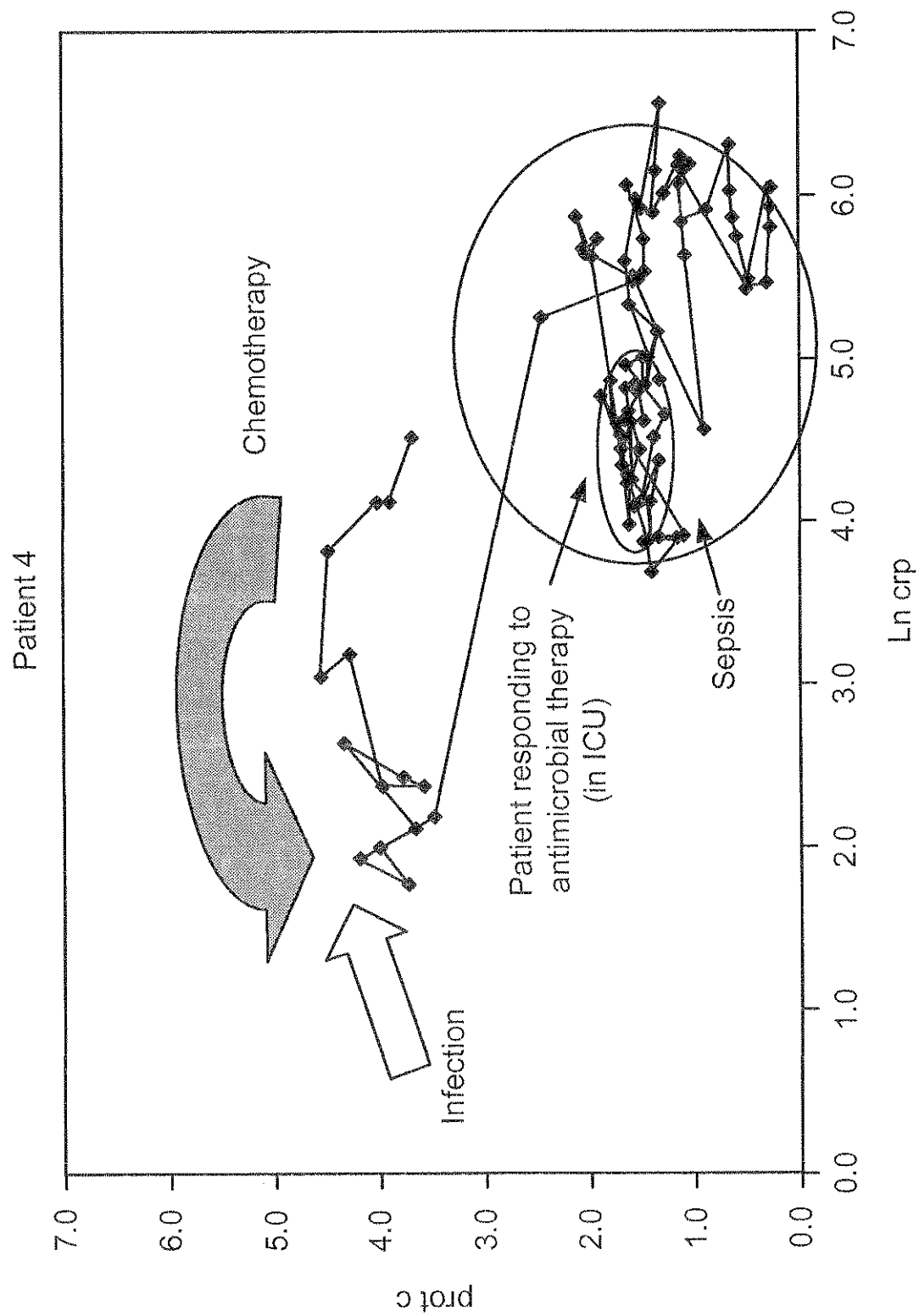


FIG. 39