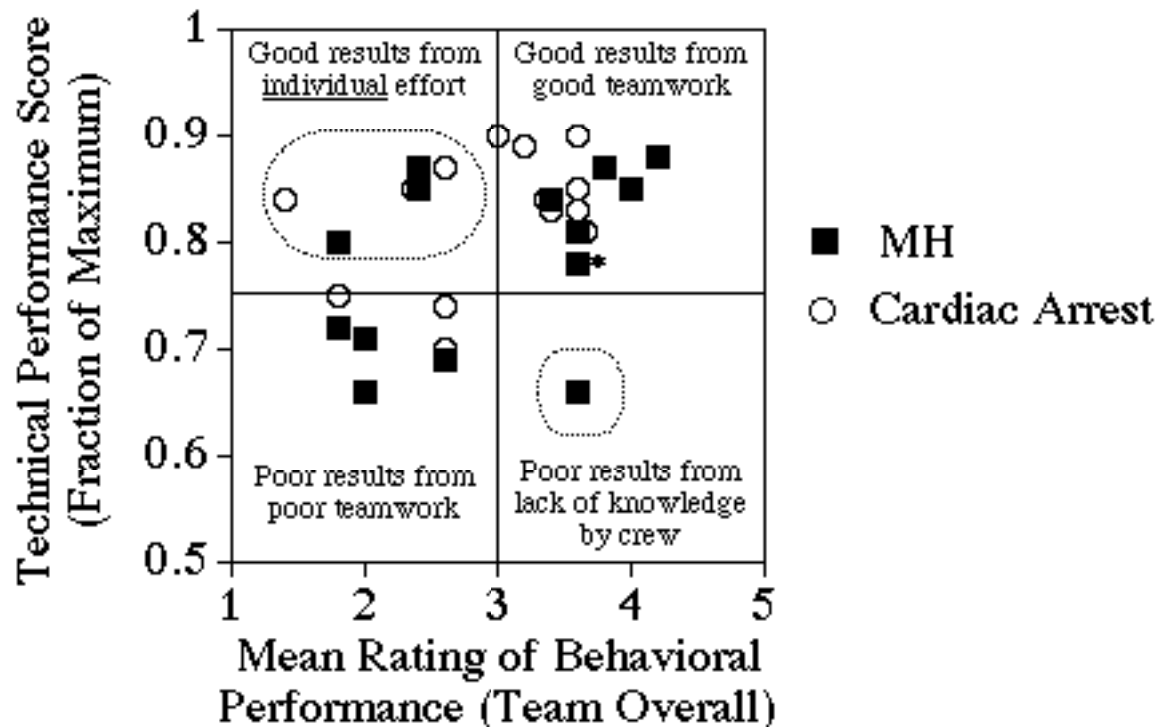


The enclosed figures fall into three categories. Figure 1 discusses an entirely new concept not included in the article. Figures 2-3 show data equivalent to that presented in the paper but removed because of length considerations. Figures 4-7 present additional details related to the Behavioral Markers for both scenarios.

### Figure 1: Behavioral performance vs. Technical Performance

This figure shows the relationship between behavioral performance and technical performance of the 14 teams. The mean rating of behavioral performance (Team Overall during time period 2) is shown on the x-axis and the technical performance score on the y-axis.



Expert performance ideally should combine excellent technical knowledge and skill with excellent crisis management behaviors. However, as this figure shows, technical performance did not always correlate with behavioral performance. For example, it was possible for a team to work poorly as a group and still, through the individual efforts of its members, accomplish a large number of technical maneuvers. The behavioral processes shown by teams with low behavioral performance were chaotic and inefficient, suggesting that success would not necessarily have occurred given another type of crisis or with less help. Such chaotic performances, even if associated with ultimate technical success, do not satisfy our own published expectations for expert perioperative crisis managers.

For several teams the primary anesthesiologist behaved ineffectively, but strong leadership by one of the responding anesthesiologists resulted ultimately in appropriate technical performance. One team showed good behavioral processes but did not achieve a high technical score presumably because, even collectively, they lacked key elements of technical knowledge and skill that were required for optimum clinical management.

### Figure 2: Cardiac Arrest Technical Score by Individual Rater

This figure is the equivalent to Figure 4 in the text, but for cardiac arrest in time period 2, showing behavioral scores during the cardiac arrest scenario individually for each of the five raters for each of the teams.

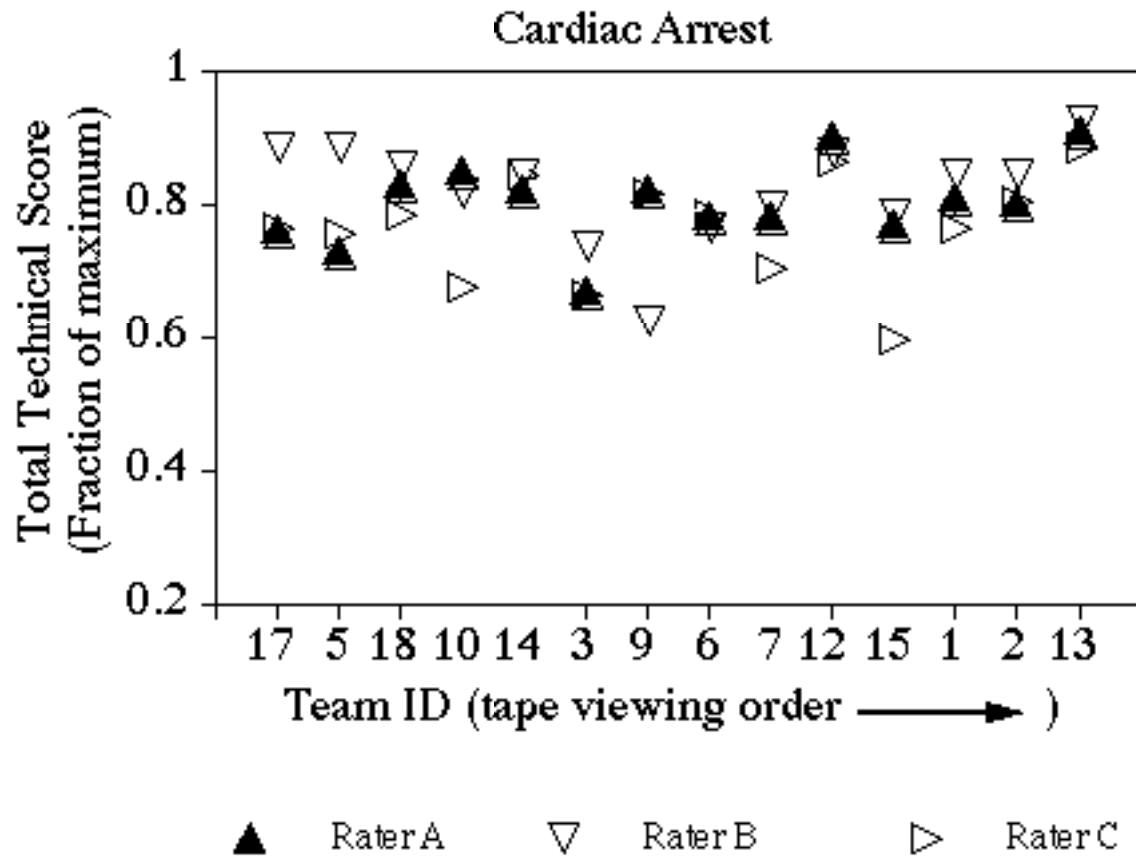
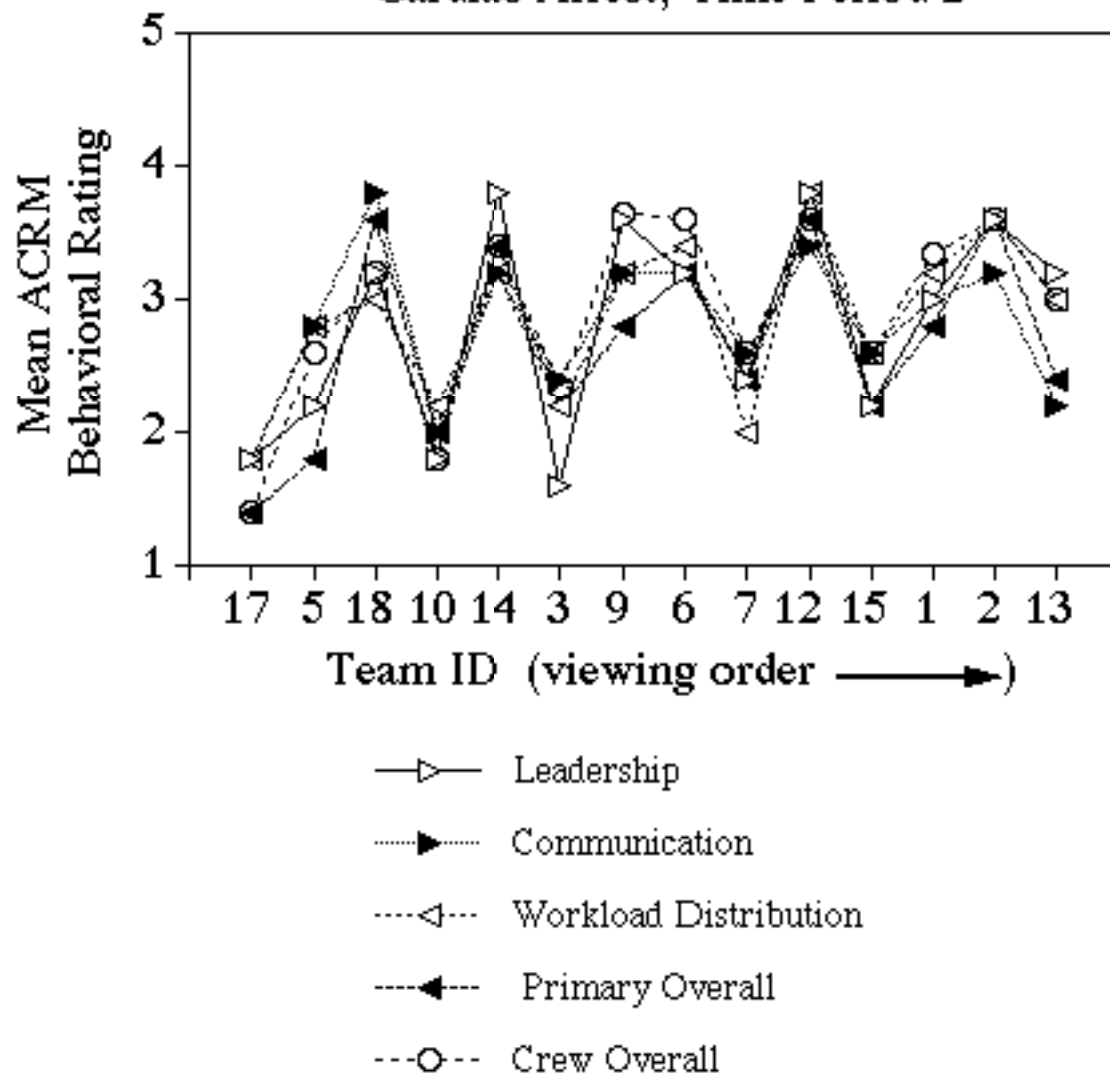
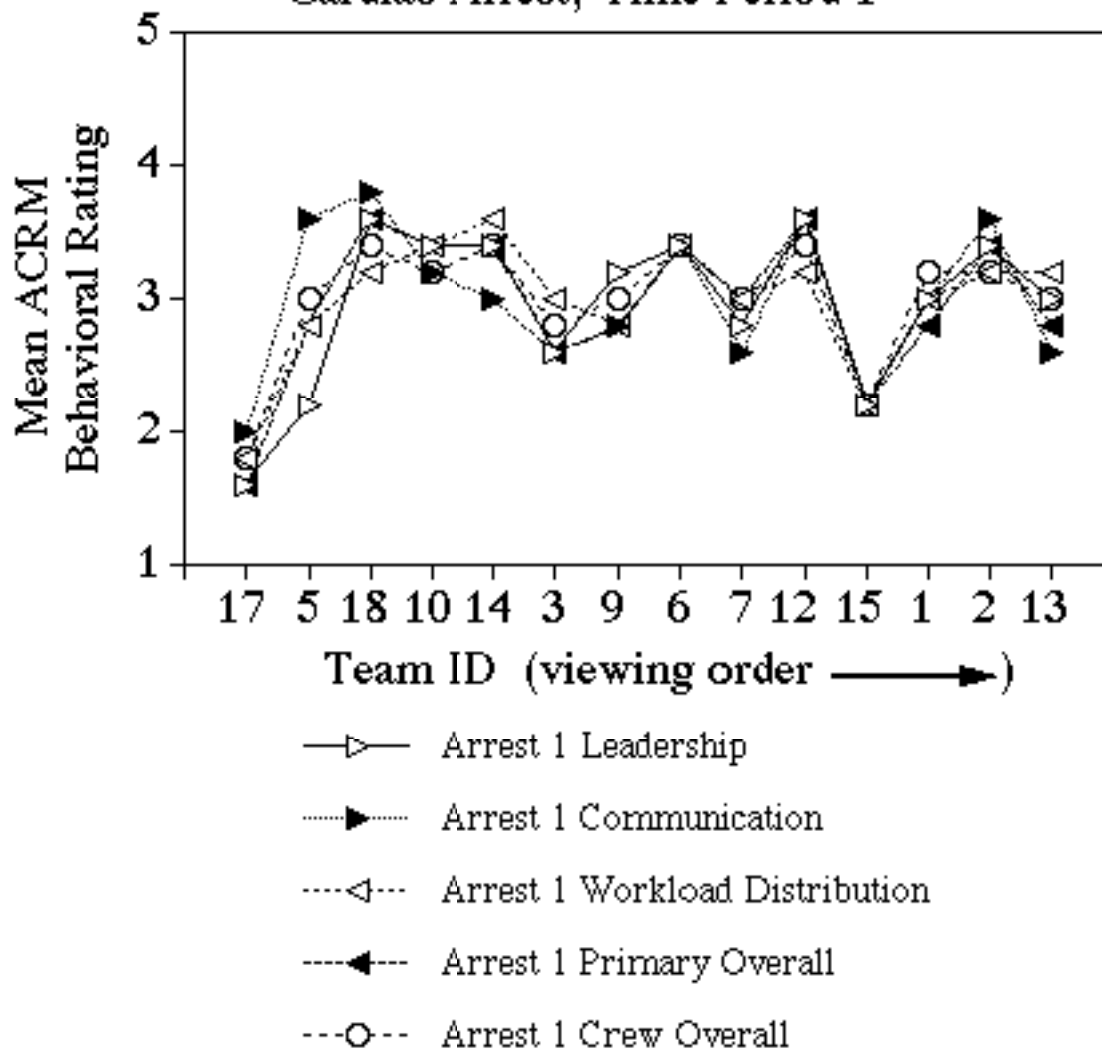


Figure 3: Cardiac Arrest Mean Behavioral Rankings  
 Cardiac Arrest, Time Period 2



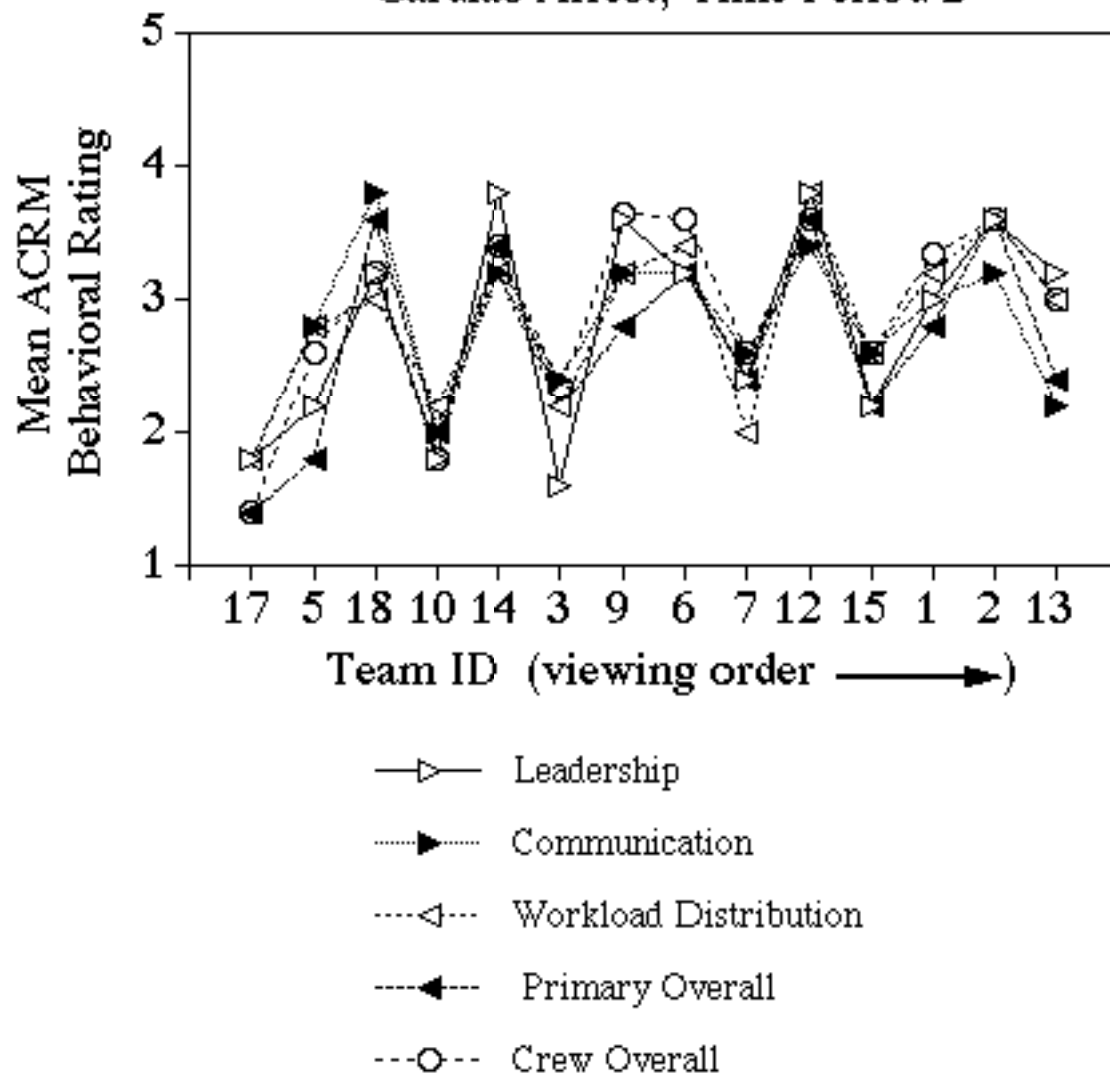
This figure shows the mean behavioral rating (mean of five raters) for each of five behavioral markers during time period 2 of the cardiac arrest scenario)

Figure 4: Cardiac Arrest Mean Behavioral Rankings  
Cardiac Arrest, Time Period 1



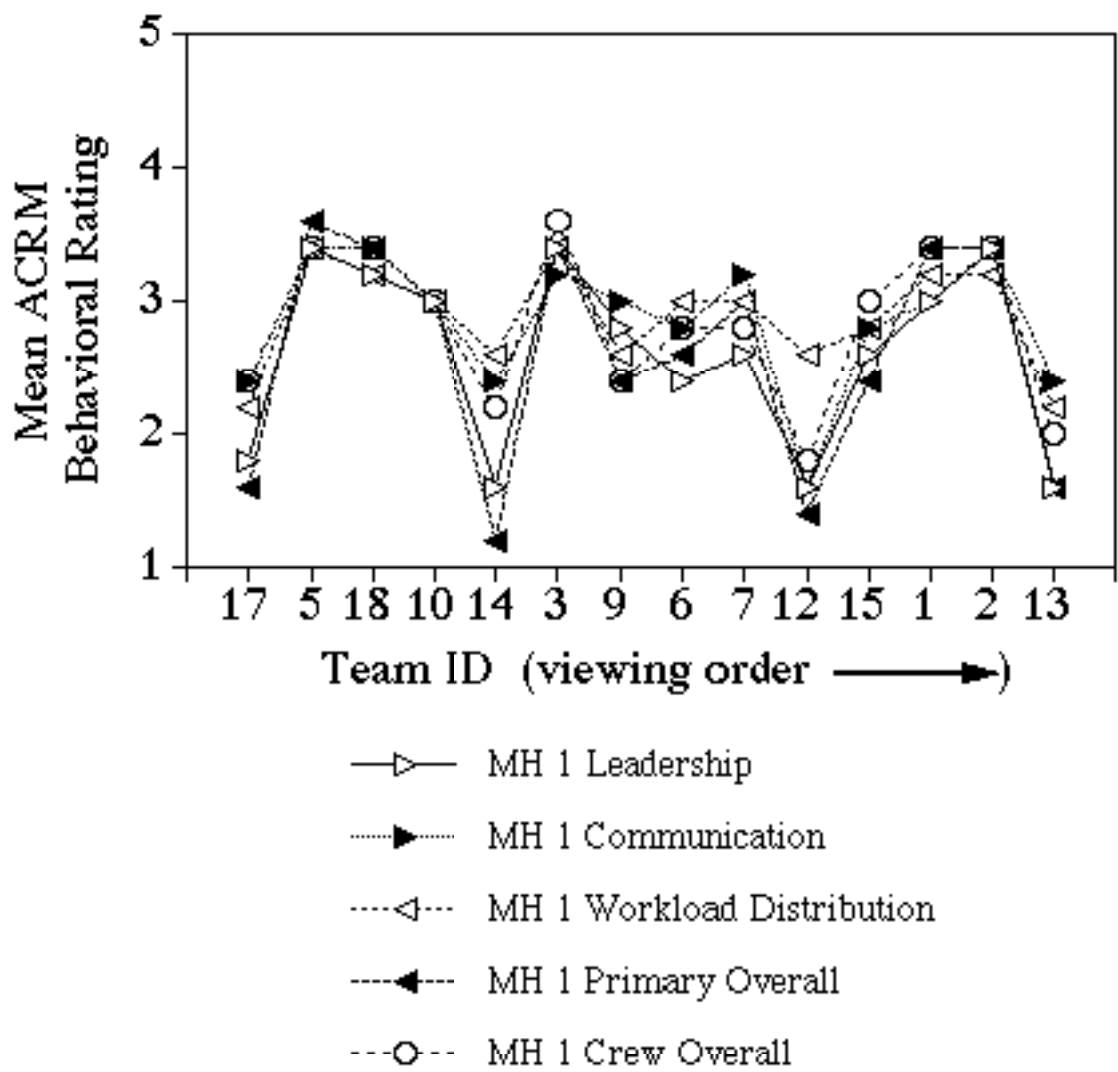
This figure shows the mean behavioral rating (mean of five raters) for each of five behavioral markers during time period 1 of the cardiac arrest scenario.

Figure 5: Cardiac Arrest Mean Behavioral Rankings  
 Cardiac Arrest, Time Period 2



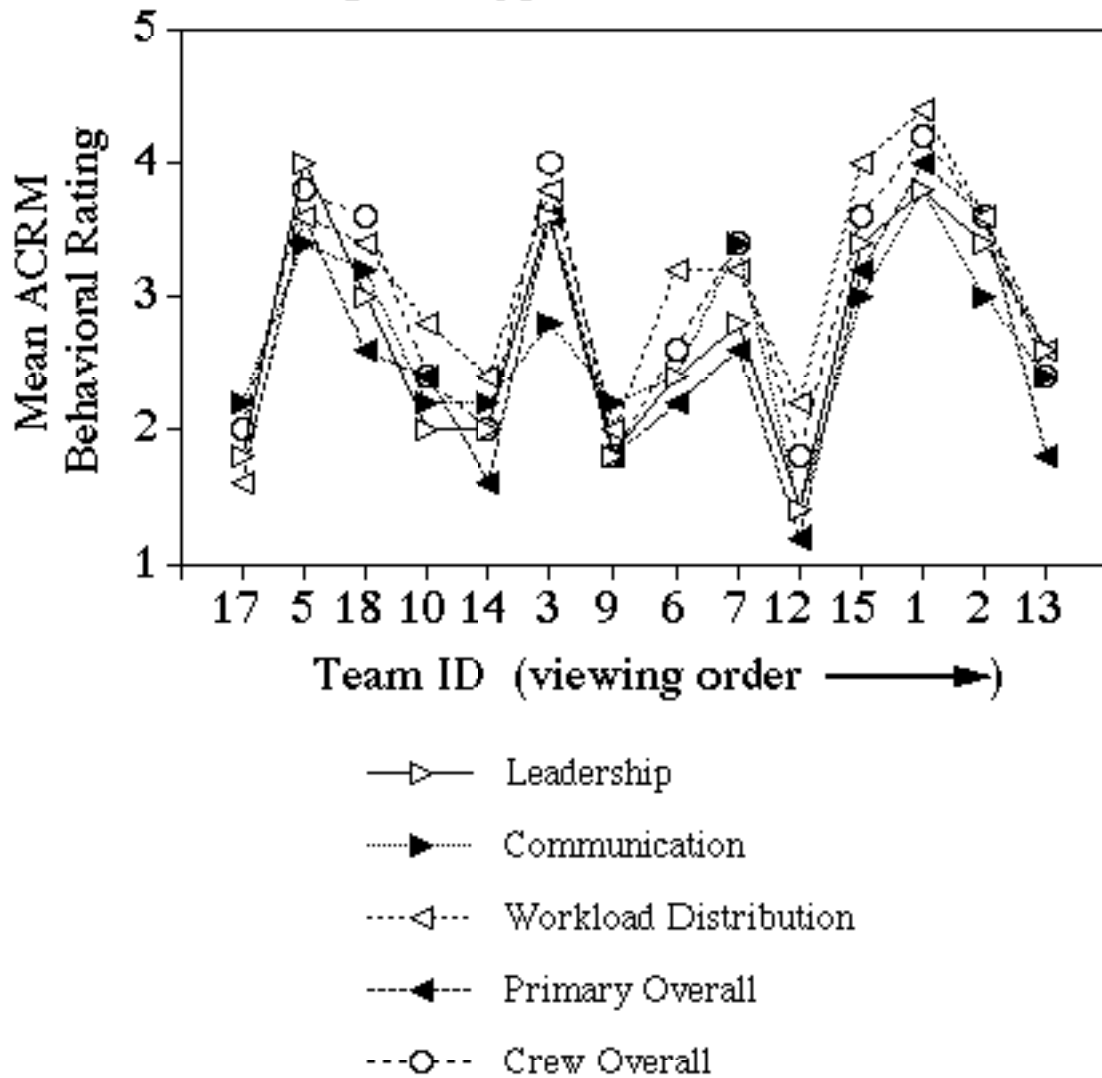
This figure shows the mean behavioral rating (mean of five raters) for each of five behavioral markers during time period 2 of the cardiac arrest scenario)

Figure 6: Malignant Hyperthermia Mean Behavioral Rankings  
 Malignant Hyperthermia, Time Period 1



This figure shows the mean behavioral rating (mean of five raters) for each of five behavioral markers during time period 1 of the malignant hyperthermia scenario

Figure 7: Malignant Hyperthermia Mean Behavioral Rankings  
 Malignant Hyperthermia, Time Period 2



This figure shows the mean behavioral rating (mean of five raters) for each of five behavioral markers during time period 1 of the malignant hyperthermia scenario