What is claimed is:

1. A pharmacy workstation for use in connection with execution of a pharmacy workflow management application, comprising:

a memory storing the pharmacy workflow management application;

a processor configured to access the pharmacy workflow management application stored in the memory to execute the pharmacy workflow management application; and

a dose processing interface in operative communication with the processor, an alert generation platform, and a data source including at least one of a laboratory system, an electronic medical record ("EMR") system, or an operating room information system, the dose processing interface configured to receive dose order data of an order entry system from the data source, the dose order data comprising medication data regarding a patient specific dose order that has been prescribed for a patient,

wherein the processor in cooperation with the alert generation platform are operative to

receive, from the data source, infection information indicative of microbial organisms identified in a patient,

receive, from the data source via the dose processing interface, medication data indicative of the patient specific dose order that has been prescribed for the patient,

populate the patient specific dose order into a dose order listing displayed by a user interface of the pharmacy workstation,

determine, after the patient specific dose order has been prescribed, alert data is to be generated based on the received infection information and the medication data, the alert data indicative that the patient specific dose order conflicts with the infection information indication of the microbial organisms,

process the alert data in relation to the dose order listing to associate the alert data with the patient specific dose order in the dose order listing,

determine intervention options based on the received infection information and the medication data when the alert data is generated, at least one of the intervention options including a modification of the patient specific dose order, and

configure the user interface to present an alert indication corresponding to at least a portion of the alert data and the intervention options to a user at the pharmacy workstation in connection with the pharmacy workflow management application,

wherein the alert indication and the intervention options are displayed at the user interface of the pharmacy workstation,

wherein the user interface further comprises an input device and a patient link that, upon selection by the user by way of an input provided using the input device, instructs the processor to display a patient report corresponding to the patient specific dose order and the related alert data in connection with the pharmacy workflow management application,

wherein the input device is configured to receive a responsive input from the user of the pharmacy workflow management application corresponding to a response to the alert indication, wherein the response to the alert indication is entered, by the user, into the pharmacy workflow management application and includes a selection of at least one intervention option,

wherein the selection of the intervention option for modifying the patient specific dose order causes the processor to transmit a request to the data source to modify the patient specific dose order,

wherein the user interface is in bidirectional communication with the alert generation platform to provide the responsive input to the alert generation platform, and

wherein the responsive input comprises instructions for modification of the patient specific dose order associated with the alert indication.

2. The pharmacy workstation of claim 1, wherein the user interface comprises an interactive portion corresponding to the alert indication.

3. The pharmacy workstation of claim 2, wherein the alert indication comprises the interactive portion.

4. The pharmacy workstation of claim 2, wherein the interactive portion, upon selection by the user by way of an input provided using the input device, configures the processor to launch the alert generation platform at the pharmacy workstation.

5. The pharmacy workstation of claim 4, wherein the alert indication is provided on a second user interface of the pharmacy workflow management application corresponding to a pharmacist workspace comprising a listing of dose orders of the pharmacy workflow management application.

6. The pharmacy workstation of claim 4, wherein the alert indication is provided on a second user interface of the pharmacy workflow management application corresponding to an interface for pharmacist verification of the patient specific dose order.

7. The pharmacy workstation of claim 1, wherein the alert data comprises patient specific alert data.

8. The pharmacy workstation of claim 7, wherein the alert data comprises a first patient identifier corresponding to the patient to whom the alert data applies and the dose order comprises a second patient identifier corresponding to the patient to whom the patient specific dose order is to be administered, and wherein correspondence of the first patient identifier and the second patient identifier results in the alert data being associated with the patient specific dose order.

9. The pharmacy workstation of claim 1, wherein the alert indication is provided in corresponding relation to the patient specific dose order in the pharmacy workflow management application.

10. The pharmacy workstation of claim 1, wherein the memory comprises alert processing rules accessible by the processor for determining the alert data.

11. The pharmacy workstation of claim 10, wherein the alert processing rules define one or more triggering conditions for presentation of the alert indication in the pharmacy workflow management application.

12. The pharmacy workstation of claim 11, wherein upon satisfaction of the one or more triggering conditions, the alert indication is displayed in corresponding relation to one or more dose orders in the dose order listing of the pharmacy workflow management application.

13. The pharmacy workstation of claim 11, wherein the alert processing rules define one or more actions to be taken with respect to the patient specific dose order in response to the alert indication.

14. The pharmacy workstation of claim 13, wherein upon satisfaction of the one or more triggering conditions, the processor is operative to execute the one or more actions with respect to the patient specific dose order in response to the alert indication.

15. The pharmacy workstation of claim 14, wherein the one or more actions to be taken with respect to the patient specific dose order comprises modification of a status of the patient specific dose order in the dose order listing of the pharmacy workflow management application.

16. The pharmacy workstation of claim 15, wherein the pharmacy workflow management application comprises a second user interface for displaying one or more given dose orders for which one or more actions have been taken in response to one or more corresponding alert indications.

17. The pharmacy workstation of claim 1, wherein the user interface is in bidirectional communication with the alert generation platform, and wherein the processor is operative to configure the user interface to present report data in connection with the pharmacy workflow management application that is received from the alert generation platform in response to a request for the report data from the pharmacy workstation.

18. The pharmacy workstation of claim 1, wherein the pharmacy workstation is in operative communication with a server remote from the pharmacy workstation, wherein the processor is in operative communication with the server for communication of the alert data to the server, and wherein the server stores a copy of the alert data in a server memory located at the server.

19. The pharmacy workstation of claim 1, wherein the alert data comprises information related to at least one of infection control or antimicrobial stewardship.