platforms. This alert data may be generated at least in part in view of data sources external to the pharmacy. For example, one such contemplated alert generation platform comprises the ICNet™ Suite of alert products provided by ICNet International Limited. Specifically, such alert platforms may comprise software, firmware, and/or hardware components that may be in operative communication with a number of data sources. In turn, the alert generation platform may extract meaningful and actionable data from the underlying data sources to generate alert data in one or more contexts. That is, the alert generation platform may include logic for processing data from one or more sources to generate alert data. For example, alert data may be provided in the context of infection control, antimicrobial stewardship, or other areas. In any regard, this alert data may provide meaningful and actionable information that may assist a pharmacist or pharmacist technician in relation to pharmacy work (e.g., in relation to management and/or preparation of doses, CSPs, or the like). In other examples, an information aggregator may be provided that aggregates information from one or more medical information sources for use by, or presentation at, a pharmacy workflow management application (e.g., in the absence of alert data).

In this regard, the present disclosure contemplates the integration of alert data in technology-assisted compounding techniques. Specifically, an interface is contemplated that may provide operative communication between a pharmacy workstation (e.g., that may execute a pharmacy workflow management application) and an alert generation platform. In turn, the pharmacy workstation may be operative to process alert data of the alert generation platform for use in connection with the pharmacy workflow management application that may be executed at the pharmacy workstation. For instance, the alert data may be used to provide an alert indication to a user of the pharmacy workflow management application. Additionally, the alert indication may provide interactive features that may facilitate functionality that is provided to the user of the pharmacy workflow management application. For example, a user of the pharmacy workflow management application having alert data integration may be capable of accessing an instance of the alert generation platform from the pharmacy workflow management application. In turn, the pharmacist or pharmacy technician's workflow may be simplified such that the

access to alert data and/or the alert generation platform may be made more efficient by providing direct access by way of the pharmacy workflow management application.

In an aspect, the present disclosure refers to 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.

Additionally, the interface may facilitate bidirectional communication between the pharmacy workstation and the alert generation platform. In turn, information may be exchanged between the

pharmacy workstation and the alert generation platform. One such example may include proving a responsive input received from a user of the pharmacy workflow management application to the alert generation platform. Accordingly, the alert generation platform may include resolution information and/or intervention information that may, for example, provide an indication of a response by appropriate personnel to an alert and/or an outcome of the response to the alert. As such, rather than having to separately access the alert generation platform to provide such a responsive input or duplicate the input of such input in multiple platforms, the input may be provided directly to the pharmacy workflow management application executing on a pharmacy workstation such that the responsive input is in turn provided to the alert platform. In turn, responsive inputs such as alert interventions may be communicated in bidirectional fashion between the pharmacy workstation and the alert generation platform.

Additionally, the pharmacy workflow management application may include logic that allows for dose order record manipulation within the pharmacy workflow management application in response to alert data of the alert generation platform. In this regard, dose orders received at a pharmacy may be processed to generate dose order records that may be reflected in the pharmacy workflow management application. For instance, dose order records may be assigned a status by the pharmacy workflow management application and may be presented to a user in a dose order listing. Accordingly, upon receipt of alert data, the pharmacy workflow management application may be capable of processing the alert data in connection with one or more dose order records to take action in relation to a dose order record based on the alert data. For instance, a dose order record may have a status changed, may be displayed in a different manner, may be displayed in a different interface portion of the pharmacy workflow management application, or have some other appropriate action taken in relation to a dose order record in response to the alert data.

Further features may be facilitated by the integration of alert data in a pharmacy workflow management application. For instance, a user of the pharmacy workflow management application may be capable of accessing a local instance of the alert generation platform directly from the interface of the pharmacy workflow management application. As such, the local instance of the alert generation platform may be executed on the pharmacy workstation on which the pharmacy workflow management application is also executed. As may be further appreciated, the local instance of the alert generation platform may be executed in connection with a thin client such as an internet browser such that access to an alert generation platform remote from the pharmacy workstation on which the pharmacy workflow management application is executed may be provided by way of the thin client. Furthermore, access to features of the alert generation platform (e.g., including reporting functionality) may be directly accessed by a user of the pharmacy workflow management application. Further still, additional capabilities provided by certain configurations of a pharmacy workflow management application may facilitate additional functionality in relation to the integration. For instance, a pharmacy workflow management application may be executed in a distributed environment where a plurality of pharmacy workstations may be operative to execute the pharmacy workflow management application. In this case, each of the distributed pharmacy workstations may have access to alert data that is processed once received from an alert generation platform. Furthermore, in at least some examples, central server communication used by the pharmacy workflow management application may also be used to provide functionality in connection with the alert data. For instance, alert data, alert indications, alert responses, alert interventions, or other information may be provided to a central server in connection with a backup, a data analytics tool, and/or report generation tool provided in connection with a central server. In this regard, the central server may be in communication with a plurality of local facilities each executing a pharmacy workflow management application. As such, the data received from the plurality of local facilities may be aggregated such that large scale trends in relation to alert data may be identified (e.g., including antimicrobial behaviors at a wide scale such as drug resistances or infection control at a wide scale).

Further still, examples are contemplated herein where aggregated medical information may be presented to a user of a pharmacy workflow management application. For example, the aggregated medical information may be collected at an information aggregator (e.g., which may or may not also provide alert generation capability). That is, an alert generation module may aggregate data both for presentation in raw form and for processing to generate alert data therefrom. In any regard, the aggregated medical information may be presented to a user of a pharmacy workflow management application. For instance, aggregated information may be presented to a user of the pharmacy workflow management application prior to preparation of a dose. Further still, aggregated medical information may be presented in connection with preparation of a dose. Additionally or alternatively, aggregated medical information may be presented to a user of the pharmacy workflow management application during approval and/or review of a prepared dose. In this regard, the aggregated medical information may be provided in connection with alert data provide to the pharmacy workflow management application or may be provided in the absence of an alert.

Accordingly, a first example comprises a pharmacy workstation for use in connection with execution of a pharmacy workflow management application. The pharmacy workstation includes a memory storing the pharmacy workflow management application and a processor configured to access the pharmacy workflow management application stored in the memory to execute the pharmacy workflow management application. The pharmacy workstation also includes an interface in operative communication with the processor and an alert generation platform. The processor is operative to process alert data of the alert generation platform from the interface and is operable to configure a display to present an alert indication corresponding to at least a portion of the alert data to the user at the pharmacy management workstation in connection with the pharmacy workflow management application.

A number of feature refinements and additional features are applicable to the first example. These feature refinements and additional features may be used individually or in any combination. As such, each of the following features that will be discussed may be, but are not required to be, used with any other feature or combination of features of the first example.

For example, in an example the alert indication may be displayed at a user interface of the

pharmacy workstation presented on the display. Furthermore, the user interface of the pharmacy workstation may further include an input device. As such, the user interface may include an interactive portion corresponding to the alert indication. In an example, the alert indication may include the interactive portion. The alert indication may be provided on a user interface screen of the pharmacy workflow management application corresponding to a pharmacist workspace comprising a listing of dose orders of the pharmacy workflow management application. Additionally or alternatively, the alert indication may be provided on a user interface screen of the pharmacy workflow management application corresponding to an interface for pharmacist verification of a dose order. The alert indication may provide information regarding the nature of the alert and/or action items to be taken in response to the alert indication. The alert may be highlighted in the user interface based upon the nature of the alert (e.g., with important, urgent, or critical alert indications appearing in a different color to highlight the alert relative to lower priority alerts).

The interactive portion may facilitate a number of functionalities within the pharmacy workflow management application. For example, the interactive portion, upon selection by a user by way of an input provided using the input device, may configure the processor at the pharmacy workstation to launch execution of the alert generation platform at the pharmacy workstation. For instance, selection of the interactive portion may launch a local instance of the alert generation platform at the pharmacy workstation executing the pharmacy workflow management application. The local instance may be a local instance of the alert generation platform or may be a thin client operative to present an interface regarding a remotely executed alert generation platform.

The pharmacy workstation may also include a dose processing interface for receipt of dose order data of an order entry system. The order entry system may comprise a portion of a hospital information system, a pharmacy information system, or other appropriate electronic medical record system. The dose order data may include medication data regarding at least one dose order for administration in connection with provision of medical care. For at least some dose orders, the dose order data may include patient data or other EMR data as well. The at least one dose order may be populated into a dose order listing displayed

at the display of the user interface of the pharmacy workstation. In turn, the processor may be operative to process the alert data of the alert generation platform from the interface in relation to the dose order listing to associate the alert indication with one or more corresponding respective dose order in the dose order listing.

For instance, in an example, the alert data may include patient specific alert data. For instance, the alert data may relate to a specific lab result for a given patient, a specific treatment undertaken for a specific patient, specific patient allergies, or other patient related information. As such, the alert data may include a first patient identifier corresponding to a patient to whom the alert data applies. The dose order data may include a second patient identifier corresponding to a patient to whom the dose order is to be administered. Correspondence of the first patient identifier and the second patient identifier may result in the alert data being associated to the dose order. In turn, the alert indication may be displayed on the user interface at the pharmacy workstation in connection with a dose order for the patient to whom the alert data is associated. For instance, the first patient identifier and the second patient identifier may be identical or correlated in some fashion (e.g., a look-up table or the like) to associate the alert indication with the patient specific dose order. As such, the alert indication may be provided in corresponding relation to the dose order in the pharmacy workflow management application.

In further regard to alert generation platform functionality provided at the pharmacy workflow management application, the dose order listing may include at least one patient specific order and the user interface comprises a patient link that, upon selection by a user by way of an input provided using the input device, may configure the processor to launch execution of a local instance of the alert generation platform at the pharmacy workstation to display a patient report corresponding to the patient associated with the at least one patient specific dose order from the alert generation platform in connection with the pharmacy workflow management application. The patient report may provide details regarding the patient that may, for example, be presented in a timeline format reflecting major events in relation to the patient's care such as use of medical devices, order or administration of drugs, laboratory results, procedures, vital signs, or other patient related information.

Further still, the input device may be configured to receive a responsive input from a user of the pharmacy workflow management application corresponding to a response to the alert indication. For instance, the responsive input may comprise an intervention and/or outcome related to an alert indication presented at the pharmacy workstation. The interface may be in bidirectional communication with the alert generation platform to provide the responsive input to the alert generation platform. The responsive input may include instructions for modification of a corresponding dose order associated with the alert indication.

In an example, the memory may include alert processing rules accessible by the processor for processing the alert data received at the interface by the processor. For instance, the alert processing rules may define one or more triggering conditions for presentation of the alert indication in the pharmacy workflow management application. Accordingly, upon satisfaction of the one or more triggering conditions (e.g., only upon satisfaction of the one or more triggering conditions), the alert indication may be displayed in corresponding relation to one or more dose orders in a dose order listing of the pharmacy workflow management application.

Additionally or alternatively, the alert processing rules may define one or more actions to be taken with respect to a given dose order in response to the alert indication. Upon satisfaction of the one or more triggering conditions, the processor may be operative to execute the one or more actions with respect to the given dose order in response to the alert indication. The action by the processor may occur automatically upon satisfaction of the triggering condition such that no user input is needed to complete the action for the dose order. The one or more actions to be taken with respect to a given dose order may include modification of a status of the given dose order in the dose order listing of the pharmacy workflow management application. Additionally, the pharmacy workflow management application may include a user interface screen 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. For example, a dose order listing filter may be provided that filters a dose order listing to show only those dose orders for which a particular action has been taken in response to satisfaction of a triggering condition by an alert indication.

In an example, the interface may be in bidirectional communication with the alert generation

platform. As such, the pharmacy workstation may locally present at the pharmacy workstation information from the alert generation platform. The processor may be operative to configure the display to present report data in connection with the pharmacy workflow management application that is received from the alert generation platform (e.g., in response to a request for the report data from the pharmacy workstation). Additionally, in an example, the pharmacy workstation may be in operative communication with a server remote from the pharmacy workstation. Accordingly, the processor may be in operative communication with the server for communication of the alert data to the server such that the server may store a copy of the alert data in a server memory located at the server. The server remote from the pharmacy workstation may be a pharmacy workflow management server specific to the facility at which the pharmacy workflow management application is executed or may be a central server remote from the facility to which a plurality of pharmacy workflow management applications at different respective facilities communicate information.

While the alert generation platform may be operative to acquire and/or process data from a plurality of medical information sources to provide alert data in a number of contexts, in the specific context of a pharmacy a number of specific alert types may be particularly of interest. For instance, the alert data may include information related to at least one of infection control or antimicrobial stewardship. For instance, alerts associated with given microbial organisms identified in a patient may trigger an alert or may trigger alerts in respect of particular medications ordered for a patient. Furthermore, identification of particular infections may provide alert data in the pharmacy.

Furthermore, the processor of the pharmacy workstation may be operative to process aggregated medical information received from an information aggregator so that the processor may configure a display to present at least a portion of the aggregated medical information to a user at the pharmacy workstation in connection with the pharmacy workflow management application. For instance, the aggregated medical information may correspond to aggregated information regarding a particular patient (e.g., a patient for whom a dose order has been received at the pharmacy workflow management application). Additionally or alternatively, the aggregated medical information may include information regarding a plurality of

patients. The aggregated medical information may also relate to a given facility or a collection of facilities. The aggregated medical information may be displayed independently within the pharmacy workflow management application (e.g., in the form of a report or the like), in connection with a dose order record listing, or in connection with a review screen presented during review and/or approval of a dose order.

A second example includes a non-transitory computer readable medium comprising computer-readable instructions for configuration of a processor to execute a pharmacy workflow management application and process alert data of an alert generation platform. The computer-readable instructions may further configure the processor to configure a display to present an alert indication corresponding to at least a portion of the alert data to a user of the pharmacy workflow management application in connection with the pharmacy workflow management application.

A number of feature refinements and additional features are applicable to the second example. These feature refinements and additional features may be used individually or in any combination. As such, each of the following features that will be discussed may be, but are not required to be, used with any other feature or combination of features of the second example. Additionally, any of the features or feature refinements discussed above in relation to the first example may be, but are not required to be, used with any other feature or combination of features of the second example.

In an example, the computer-readable instructions may configure the processor to display the alert indication at a user interface of the pharmacy workstation on the display. Additionally, the computer-readable instructions may configure the processor to display on the user interface an interactive portion corresponding to the alert indication. In an example, the alert indication may include the interactive portion. As such, the computer-readable instructions may configure the processor to launch execution of the alert generation platform at a pharmacy workstation upon receipt of a selection of the interactive portion by a user (e.g., by way of a user input at the pharmacy workstation).

In an example, the computer-readable instructions may configure the processor to provide the alert indication on a user interface screen of the pharmacy workflow management application corresponding to a pharmacist workspace comprising a listing of dose orders of the pharmacy workflow management

application. Additionally or alternatively, the computer-readable instructions configure the processor to provide the alert indication on a user interface screen of the pharmacy workflow management application corresponding to an interface for pharmacist verification of a dose order.

In an example, the non-transitory computer readable medium may further include computer-readable instructions for configuration of the processor to execute a dose processing interface for receipt of dose order data of an order entry system. The dose order data may include medication data regarding at least one dose order for administration in connection with provision of medical care. As such, the computer-readable instructions may configure the processor to populate at least one dose order into a dose order listing displayed at the display of the user interface of the pharmacy workstation. Specifically, the computer-readable instructions may configure the processor to process the alert data of the alert generation platform from the interface in relation to the dose order listing to associate the alert indication with one or more corresponding respective dose orders in the dose order listing.

In an example, the alert data may include patient specific alert data. For instance, the alert data may include a first patient identifier corresponding to a patient to whom the alert data applies, and the dose order data may comprise a second patient identifier corresponding to a patient to whom the dose order is to be administered. The computer-readable instructions may configure the processor to determine correspondence of the first patient identifier and the second patient identifier and associate the alert data to the dose order based on the correspondence. As described above, the first and second patient identifiers may be identical or associated (e.g., in a correlation table or the like). As such, the dose order listing may include at least one patient specific order and the computer-readable instructions may configure the processor to provide a patient link at the user interface that, upon selection by a user by way of an input provided using an input device, further configures the processor to launch execution of the alert generation platform (e.g., a local instance of the alert generation platform) at the pharmacy workstation to display a patient report corresponding to the patient associated with the at least one patient specific dose order from the alert generation platform in connection with the pharmacy workflow management application.

In an example, the computer-readable instructions may configure the processor to provide the

alert indication in corresponding relation to a dose order in the pharmacy workflow management application. Additionally, the computer-readable instructions may configure the processor to receive a responsive input from a user of the pharmacy workflow management application corresponding to a response to the alert indication. The computer-readable instructions may configure the processor to communicate with the alert generation platform to provide the responsive input to the alert generation platform. In an example, the responsive input comprises instructions for modification of a corresponding dose order associated with the alert indication.

The computer-readable instructions may include alert processing rules accessible by the processor for processing the alert data received at the interface. The alert processing rules may define one or more triggering conditions for presentation of the alert indication in the pharmacy workflow management application. Upon satisfaction of the one or more triggering conditions, the computer-readable instructions may configure the processor to display the alert indication in corresponding relation to one or more dose orders in a dose order listing of the pharmacy workflow management application. The alert processing rules may define one or more actions to be taken with respect to a given dose order in response to the alert indication. As such, upon satisfaction of the one or more triggering conditions, the computer-readable instructions may configure the processor to execute the one or more actions with respect to the given dose order in response to the alert indication. For instance, the one or more actions to be taken with respect to a given dose order may include modification of a status of the given dose order in the dose order listing of the pharmacy workflow management application. Further still, the computer-readable instructions may configure the processor to display a user interface screen 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 by the pharmacy workflow management application.

In an example, the computer-readable instructions may configure the processor to communicate with the alert generation platform. As such, the processor may be operative to configure the display 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. The report data may be presented locally at a pharmacy workstation executing the computer-readable instructions. The computer-readable instructions may also configure the processor of the pharmacy workstation to communicate with a server remote from the pharmacy workstation. The computer-readable instructions may configure the processor to communicate with the server for communication of the alert data to the server. In turn, the server may store a copy of the alert data in a server memory located at the server.

In an example, the alert data may include information related to at least one of infection control or antimicrobial stewardship. As described above, the alert data may be generated by the alert generation platform based on a number of medical information sources. Specifically, the alert generation platform may apply logic to the medical information received from the various sources to identify trends, patterns, or the like from the data regarding antimicrobial stewardship and/or infection control.

A third example includes a method for pharmacy workflow management. The method includes executing a pharmacy workflow management application and processing alert data of an alert generation platform. The method further includes configuring a display to present an alert indication corresponding to at least a portion of the alert data to a user of the pharmacy workflow management application in connection with the pharmacy workflow management application.

A number of feature refinements and additional features are applicable to the third example. These feature refinements and additional features may be used individually or in any combination. As such, each of the following features that will be discussed may be, but are not required to be, used with any other feature or combination of features of the third example. Additionally, any of the foregoing features described in connection with the first and/or second examples may be, but are not required to be, used with any other feature or combination of features of the third example.

For instance, in an example the method includes displaying the alert indication at a user interface of the pharmacy workstation presented on the display. The user interface may further include an input device. As such, the user interface may also include an interactive portion corresponding to the alert indication. For example, the alert indication may include the interactive portion.

In an example, the method may include providing the alert indication on a user interface screen of the pharmacy workflow management application corresponding to a pharmacist workspace comprising a listing of dose orders of the pharmacy workflow management application. Additionally or alternatively, the method may include providing the alert indication on a user interface screen of the pharmacy workflow management application corresponding to an interface for pharmacist verification of a dose order.

The method may include a number of actions with respect to the interactive portion. For instance, the method may include launching, by the processor, execution of the alert generation platform at the pharmacy workstation upon selection of the interactive portion by a user by way of an input provided using the input device.

In an example, the method may include executing a dose processing interface for receipt of dose order data of an order entry system. The dose order data may include medication data regarding at least one dose order for administration in connection with provision of medical care. The method may further include populating the at least one dose order into a dose order listing displayed at the display of the user interface of the pharmacy workstation. The method may also include processing, using the processor, the alert data of the alert generation platform from the interface in relation to the dose order listing to associate the alert indication with one or more corresponding respective dose order in the dose order listing.

For example, in an example, the alert data may include patient specific alert data. As such, the alert data may include a first patient identifier corresponding to a patient to whom the alert data applies and the dose order data may include a second patient identifier corresponding to a patient to whom the dose order is to be administered. In turn, correspondence of the first patient identifier and the second patient identifier may result in the alert data being associated to the dose order. The correspondence may be identical patient identifiers or otherwise associable patient identifiers to identify a given patient.

In this regard, the dose order listing may include at least one patient specific order and the user interface may include a patient link. The method may further include launching alert generation platform at the pharmacy workstation upon selection by a user by way of an input provided using the input device to display a patient report corresponding to the patient associated with the at least one patient specific dose

order from the alert generation platform in connection with the pharmacy workflow management application.

In an example, the method may include providing the alert indication in corresponding relation to the dose order in the pharmacy workflow management application. The method may further include receiving a responsive input from a user of the pharmacy workflow management application corresponding to a response to the alert indication. For instance, the responsive input may comprise an intervention or outcome relative to an alert. The method may further include communicating with the alert generation platform to provide the responsive input to the alert generation platform. In an example, the responsive input comprises instructions for modification of a corresponding dose order associated with the alert indication.

In an example the method may include applying alert processing rules accessible by the processor for processing the alert data received at the interface. The alert processing rules may define one or more triggering conditions for presentation of the alert indication in the pharmacy workflow management application. As such, upon satisfaction of the one or more triggering conditions, the method may further include displaying the alert indication in corresponding relation to one or more dose orders in a dose order listing of the pharmacy workflow management application. The alert processing rules may define one or more actions to be taken with respect to a given dose order in response to the alert indication. As such, upon satisfaction of the one or more triggering conditions, the method may further include executing the one or more actions with respect to the given dose order in response to the alert indication. As such, the method may include status of the given dose order in the dose order listing of the pharmacy workflow management application based on the alert indication. The method may also additionally include 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 at a user interface screen of the pharmacy workflow management application.

In an example, the method may include configuring the display 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. Further still, the method may include communicating the alert data to a server remote from the pharmacy workstation, wherein the server stores a copy of the alert data in a server memory located at the server. Also, as described above, the alert data may include information related to at least one of infection control or antimicrobial stewardship.

A fourth example includes a pharmacy workstation for use in connection with execution of a pharmacy workflow management application. The pharmacy workstation includes a memory storing the pharmacy workflow management application and a processor configured to access the pharmacy workflow management application stored in the memory to execute the pharmacy workflow management application. The pharmacy workstation may further include an alert generation module executable by the processor to configure the processor to communicate with one or more healthcare information sources and to generate alert data based at least in part on healthcare data of the one or more healthcare information sources. The alert generation module may be operative to process the alert data and configure a display to present an alert indication corresponding to at least a portion of the alert data to the user at the pharmacy management workstation in connection with the pharmacy workflow management application.

A number of feature refinements and additional features are applicable to the fourth example. These feature refinements and additional features may be used individually or in any combination. As such, each of the features discussed above in connection with any of the foregoing examples, but in particular the first example, may be, but are not required to be, used with any other feature or combination of features of the fourth example.

A fifth example includes a medical information processing system for exchange of medical information. The medical information processing system may include a medical information processing platform comprising at least one processor configured for receipt and distribution of medical information. The medial information processing system may further include one or more exchange interfaces executed by the medical information processing platform that are in operative communication with a plurality of medical information sources each configured to store digital medical information and operable to

communicate the digital medical information with the medical information processing platform by way of the one or more exchange interfaces. The medical information processing system may further include a memory at the medical information processing platform configured for storage of the digital medical information received from the plurality of medical information sources. The memory may include a formulary for use in the provision of medical care, and wherein the formulary reflects information regarding the digital medical information received from the plurality of medication information sources.

A number of feature refinements and additional features are applicable to the fifth example. These feature refinements and additional features may be used individually or in any combination. As such, the following features may be, but are not required to be, used with any other feature or combination of features of the first example. For instance, in an example of the medical information processing system a first of the plurality of medical information sources may include an alert generation platform and a second of the plurality of medical information sources may include a pharmacy workstation. In this example of the system, any of the foregoing features described in connection with the above examples may be, but are not required to be, used with any other feature or combination of features with the fifth example.

BRIEF DESCRIPTION OF THE DRAWINGS

Fig. 1 depicts a schematic view of an approach for medical information exchange.

Fig. 2 depicts a schematic view of an approach for medical information exchange using a medical information processing platform.

Fig. 3 depicts an embodiment of an approach for medical information exchange using a medical information processing platform with specific examples of medical information sources.

Fig. 4 depicts an embodiment of a medical information processing system to facilitate exchange of information between an alert generation platform and a pharmacy workflow management application.

Fig. 5 depicts an embodiment of an interface for accessing a pharmacy workflow management application.