What is claimed is:

1. A medical error reduction system comprising:

a medical error reduction software for use in creating and revising at least one drug library, the software configured to provide one of a plurality of sets of privileges to each of a plurality of sets of users, each of the plurality of sets of privileges arranged to allocate a degree of software functionality to one of the plurality of sets of users, the degree of software functionality configured to define the ability of a user to alter the at least one drug library;

at least one server;

at least one editor computer each of the at least one editor computer comprising a processor in communication with a display, the at least one editor computer and at least one server configured to communicate via a network in a client-server based model; and

wherein each of the at least one drug library is for use in at least one medical device.

2. The system of claim 1, wherein each of the at least one drug library is organized in a hierarchy.

3. The system of claim 2, wherein the hierarchy includes a plurality of care areas which are subordinate to at least one care group.

4. the system of claim 2, wherein each level of the hierarchy includes a number of delivery parameters for the at least one medical device.

5. The system of claim 1, wherein each of the at least one drug library includes a plurality of entries each corresponding to a specific medicament.

6. The system of claim 1, wherein the at least one drug library includes a number of parameters to inform operation of the at least one medical device.

7. The system of claim 1, wherein the drug library includes a plurality of programming limits for the at least one medical device.

8. The system of claim 1, wherein the medical error reduction software is further configured to provide quality improvement information to a user.

9. The system of claim 1, wherein at least one of the plurality of sets of privileges allocates a drug library review privilege to one of the plurality of sets of users.

10. The system of claim 1, wherein at least one of the plurality of sets of privileges allocates a drug library editing privilege to one of the plurality of sets of users.

11. The system of claim 1, wherein at least one of the plurality of sets of privileges allocates a privilege set editing or creation privilege to one of the plurality of sets of users.

12. The system of claim 1, wherein at least one of the plurality of sets of privileges allocates an add user privilege to one of the plurality of sets of users.

13. The system of claim 1, wherein the plurality of sets of privileges allocated to each of the plurality of sets of users force a collaborative process between the plurality of sets of users for the creating and revising of the at least one drug library.

14. A medical error reduction system comprising:

at least one server;

at least one editor computer, each of the at least one editor computer comprising a processor in communication with a display, the at least one editor computer and at least one server configured to communicate via a network in a client-server based model;

a medical error reduction software configured to be executed by the at least one server and accessible via the at least one editor computer for use in creating and revising at least one drug library, each of the at least one drug library for use in at least one medical device with a medical device processor and a medical device graphical user interface configured to display a user interface which conveys information and may be used to program its respective medical device, each of the at least one drug library containing a plurality of entries which guide user programming of the at least one medical device; and

Wherein the medical error reduction software is configured to display a simulated medical device graphical user interface, the simulated medical device graphical user interface mimicking behavior of the medical device graphical user interface for a medical device using a selected drug library of the at least one drug library.

15. The system of claim 14, wherein the simulated medical device graphical user interface is context sensitive.

16. The system of claim 14, wherein the medical error reduction software includes a number of privilege sets each of which being assigned to one of a plurality of sets of users, the number of privilege sets each allocating a degree of software functionality to each of the plurality of sets of users.

17. The system of claim 16, wherein the simulated medical device graphical user interface is a software functionality which may be toggled on or off the number of sets of privileges.

18. The system of claim 14, wherein each of the at least one drug library is organized in a hierarchy.

19. The system of claim 18, wherein the hierarchy includes a plurality of care areas which are subordinate to at least one care group.

20. The system of claim 18, wherein each level of the hierarchy includes a number of delivery parameters for the at least one medical device.

21. The system of claim 14, wherein each of the at least one drug library includes a plurality of entries each corresponding to a specific medicament.

22. The system of claim 14, wherein the at least one drug library includes a number of parameters to inform operation of the at least one medical device.

23. The system of claim 14, wherein the drug library includes a plurality of programming limits for the at least one medical device.

24. The system of claim 14, wherein the medical error reduction software is further configured to provide quality improvement information to a user.

25. A medical device for delivering a medicament to a patient comprising:

a controller configured to control operation of a pumping mechanism which causes the medicament to be delivered;

a display;

a computer readable memory configured to store program code for a drug library, the drug library containing a plurality of entries, the plurality of entries comprising at least one entry corresponding to a portion of a facility, and for each such entry at least one drug entry, each of the at least one drug entry having parameters associated therewith, at least one drug entry in the drug library not associated with a specific drug, but rather a broad drug category; and

a processor configured to display a graphical user interface on the display of the medical device, the graphical user interface for use by a user to program the controller using the drug library.

26. The medical device of claim 25, wherein a user may select one of the at least one drug entry in the drug library not associated with a specific drug, but rather a broad drug category to program delivery of the medicament to the patient.

27. The medical device of claim 25, wherein the at least one drug entry in the drug library not associated with a specific drug, but rather a broad drug category is associated with at least one parameter governing medicament delivery.

28. The medical device of claim 25, wherein the drug library may be created or modified with a medical error reduction software.

29. The medical device of claim 25, wherein the display is a touch screen display.

30. The medical device of claim 25, wherein at least one of the at least one drug entry in the drug library not associated with a specific drug, but rather a broad drug category allows the user to program the medical device to deliver the medicament in a volume per hour mode.

31. The medical device of claim 25, wherein each of the plurality of entries is associated with at least one parameter.

32. The medical device of claim 31, wherein at least one of the at least one parameters is a medicament delivery parameter.

33. A medical error reduction system comprising:

a drug library editing software for use in creating and revising at least one drug library, the at least one drug library containing a plurality of entries, each of the at least one drug library for use with at least one medical device, the software configured to provide one of a plurality of sets of privileges to each of a plurality of sets of users, each of the plurality of sets of privileges arranged to allocate a degree of software functionality to one of the plurality of sets of users;

at least one server;

at least one editor computer, each of the at least one editor computer comprising a processor in communication with a user interface, the at least one editor computer and at least one server configured to communicate via a network in a client-server based model; and

wherein at least one of the plurality of set of users may use the software to request a change to at least a portion of the at least one drug library.

34. The system of claim 33, wherein at least one of the plurality of sets of privileges is configured to allow a user to decline implementation of the change.

35. The system of claim 33, wherein at least one of the plurality of sets of privileges is configured to allow a user to accept implementation of the change.

36. The system of claim 33, wherein at least one of the plurality of sets of privileges is configured to allow a user to submit a question to the change.

37. The system of claim 33, wherein at least one of the plurality of sets of privileges is configured to allow a user to propose a revision to the change.

38. The system of claim 37, wherein the server is configured to execute the medical error reduction software.

39. The system of claim 33, wherein the degree of software functionality is configured to define the ability of a user to alter the at least one drug library.

40. The system of claim 33, wherein the at least one medical device is an infusion pump.

41. A medical error reduction system comprising:

a drug library editing software for use in creating and revising at least one drug library, the at least one drug library containing a plurality of entries, each of the at least one drug library for use with at least one medical device;

at least one server configured to execute the medical error reduction software;

at least one editor computer, each of the at least one editor computer comprising a processor in communication with a user interface, the user interface for use by one or more user to edit the at least one drug library, the at least one editor computer and at least one server configured to communicate via a network; and

wherein at least one of the one or more user may request a change to the at least one drug library by tendering an electronic change request.

42. The system of claim 41, wherein the at least one medical device is an infusion pump.

43. The system of claim 41, wherein the electronic change request is linkable to medical data.

44. The system of claim 43, wherein the medical data is stored in an electronic database to provide contextual information.

45. The system of claim 44, wherein the electronic database is in a hosted environment.

46. The system of claim 43, wherein the medical data is generated from the at least one medical device.

47. The system of claim 46, wherein the medical data in is stored in an electronic database and is associated with the one of the at least one drug library used in the at least one medical device which generated the medical data.

48. The system of claim 43, wherein the medical data is displayed in the form of a table

49. The system of claim 43, wherein the medical data is displayed in the form of a chart.

50. The system of claim 43, wherein the medical data is displayed in the form of a graph.

51. The system of claim 43, wherein the medical data is displayed in the form of a diagram.

52. The system of claim 43, wherein the medical data is displayed in the form of an infusion story.

53. The system of claim 43, wherein a user may use the drug library editing software to search the medical data.

54. The system of claim 43, wherein a user may use the drug library editing software to filter the medical data.

55. The system of claim 43, wherein the medical data is displayed in a user selectable format.

56. The system of claim 43, wherein the user may only access medical data for versions of the one of the at least one library currently being edited.

57. The system of claim 41, wherein the plurality of entries are each associated with one or more delivery parameters.

58. The system of claim 41, wherein at least one of the one or more user may accept the electronic change request.

59. The system of claim 41, wherein at least one of the one or more user may respond to the electronic change request.

60. The system of claim 41, wherein at least one of the one or more user may propose an alteration to the electronic change request.

61. The system of claim 41, wherein at least one of the one or more user may deny the electronic change request.

RECTIFIED SHEET (RULE 91) ISA/EP

62. A medical error reduction system comprising:

a drug library editing software for use in creating and revising at least one drug library, the at least one drug library containing a plurality of entries, each of the at least one drug library for use with at least one medical device, the drug library editing software to be executed by a server;

at least one drug library database;

at least one medical data database;

at least one editor computer, each of the at least one editor computer comprising a processor in communication with a user interface, the user interface for use by a user to edit the at least one drug library, the at least editor computer, at least one drug library database, and at least one medical data database configured to communicate via a network; and

wherein while editing the at least one drug library, the user may use the drug library editing software to access medical data.

63. The system of claim 62, wherein the medical data is stored in the at least one medical data database.

64. The system of claim 63, wherein the at least one medical data database is stored in a hosted environment.

65. The system of claim 62, wherein the medical data is displayed in the form of a chart.

66. The system of claim 62, wherein the medical data is displayed in the form of a graph.

67. The system of claim 62, wherein the medical data is displayed in the form of a table.

68. The system of claim 62, wherein the medical data is displayed in the form of a diagram.

69. The system of claim 62, wherein the medical data is displayed in the form of an infusion story.

70. The system of claim 62, wherein the medical data is displayed in a user selectable format.

71. The system of claim 62, wherein the access medical data is searchable.

RECTIFIED SHEET (RULE 91) ISA/EP

72. The system of claim 62, wherein the accessed medical data is filterable by applying a filter.

73. The system of claim 72, wherein the filter is a device type filter.

74. The system of claim 72, wherein the filter is a data category.

75. The system of claim 72, wherein the filter is a therapy based criteria.

76. The system of claim 72, wherein the filter is a medical device identifier.

77. The system of claim 72, wherein the filter is a care giver identifier.

78. The system of claim 72, wherein the filter is an area based criteria.

79. The system of claim 72, wherein the filter is a drug criteria.

80. The system of claim 79, wherein the drug criteria is a drug identifier.

81. The system of claim 79, wherein the drug criteria is a drug type.

82. The system of claim 62, wherein the at least one drug library database is in a hosted environment.

83. The system of claim 62, wherein the medical device is an infusion pump.

84. A medical error reduction system comprising:

a drug library editing software for use in creating and revising at least one drug library, the at least one drug library containing a plurality of entries, each of the at least one drug library for use with at least one medical device, the drug library editor software to be executed by a server;

at least one drug library database;

at least one medical data database;

at least one editor computer, each of the at least one editor computer comprising a processor in communication with a user interface, the user interface for use by a user to edit the at least one drug library, the at least one editor computer, at least one drug library database, and at least one medical data database configured to communicate via a network; and

wherein while creating or revising the at least one drug library, the drug library editing software is configured to display medical data from the at least one medical data database on the user interface and filter the medical data with a filter criteria.

RECTIFIED SHEET (RULE 91) ISA/EP

85. The system of claim 84, wherein the at least one medical device is an infusion pump.

86. The system of claim 84, wherein the at least one drug library database is in a hosted environment.

87. The system of claim 84, wherein the at least one medical data database is in a hosted environment.

88. The system of claim 84, wherein the filter criteria is user selectable.

89. The system of claim 84, wherein the filter criteria is a medical device type.

90. The system of claim 84, wherein the filter criteria is a data category.

91. The system of claim 84, wherein the filter criteria is a therapy based criteria.

92. The system of claim 84, wherein the filter criteria is a medical device identifier.

93. The system of claim 84, wherein the filter criteria is a care giver identifier.

94. The system of claim 84, wherein the filter criteria is a care area based criteria.

95. The system of claim 84, wherein the filter criteria is a drug criteria.

96. The system of claim 95, wherein the drug criteria is a drug identifier.

97. The system of claim 95, wherein the drug criteria is a drug type.

98. The system of claim 84, wherein the filter criteria may be applied by interaction with the medical data displayed on the user interface to display a subset of the medical data.

99. The system of claim 84, wherein the filter criteria may be applied by interaction with the medical data displayed on the user interface to drill down on the medical data.

100. The system of claim 84, wherein the medical data may be display on the user interface in one or more of a number of user specified formats.

101. A medical device comprising:

A processor;

A graphical user interface;

And wherein said processor is configured to generate at least one screen for display on the graphical user interface, at least one of said at least one screen including one or more

RECTIFIED SHEET (RULE 91) ISA/EP

parameter value, and wherein the processor is further configured to visibly alter the font of at least one of the one or more parameter value in response to a change in the one or more parameter value.

102. The medical device of claim 101, wherein the change is an order of magnitude change in the one or more parameter value.

103. The medical device of claim 101, wherein the processor is configured to visibly alter the font by changing the size of the font.

104. The medical device of claim 101, wherein the processor is configured to visibly alter the font by changing the color of the font.

105. The medical device of claim 101, wherein at least one of the one or more parameter value must be specified by a user.

106. The medical device of claim 101, wherein one of the one or more parameter value is a patient weight.

107. The medical device of claim 101, wherein one of the one or more parameter value is a patient body surface area.

108. The medical device of claim 101, wherein one of the one or more parameter value is a dose value.

109. The medical device of claim 101, wherein one of the one or more parameter value is a time value.

110. The medical device of claim 101, wherein one of the one or more parameter value is a volume to be infused volume.

111. The medical device of claim 101, wherein one of the one or more parameter value is an infusion rate value.

112. The medical device of claim 101, wherein one of the one or more parameter value is a medicament concentration value.

113. The medical device of claim 101, wherein at least one or more parameter value is pre-programmed.

114. The medical device of claim 101, wherein the processor is configured to visibly alter the font by decreasing the size of the parameter value.

115. A medical device comprising:

RECTIFIED SHEET (RULE 91) ISA/EP

a graphical user interface;

a processor, the processor configured to generate at least one screen for display on the graphical user interface; at least one of the at least one screen being a therapy in progress screen, said therapy in progress screen including a pressure indicator which indicates the pressure of a fluid in an infusion line.

116. The medical device of claim 115, wherein the pressure indicator is a pressure trend indicator.

117. The medical device of claim 116, wherein the pressure trend indicator depicts a pressure trend over the last four hours.

118. The medical device of claim 115 wherein the pressure indicator is a bar.

119. The medical device of claim 115, wherein the bar includes a number of segments.

120. The medical device of claim 119, wherein the pressure indicator is configured to indicate different pressures by filling a different number of segments.

121. The medical device of claim 115, wherein the pressure indicator is configured to indicate different pressures by filling different amounts of the bar.

122. The medical device of claim 115, wherein the graphical user interface is a touch screen.

123. A medical device comprising:

a graphical user interface;

a processor, the processor configured to generate at least one screen for display on the graphical user interface;

and wherein at least one of the at least one screen is a therapy in progress screen displayed when the medical device is delivering a therapy, said therapy in progress screen comprising a medicament indicator indicating a medicament which is being delivered by the medical device, the processor color coding at least a portion of the medicament indicator displayed on the user interface in one of a plurality of colors depending on a classification of a plurality of classification assigned to the medicament.

124. The medical device of claim 123, wherein the graphical user interface is a touch screen.

125. The medical device of claim 123, wherein the processor is in communication with a memory storing a drug library for use with the medical device.

RECTIFIED SHEET (RULE 91) ISA/EP

126. The medical device of claim 125, wherein the drug library contains color coding information for the portion of the medicament indicator.

127. The medical device of claim 123, wherein at least one of the at least one screen is a programming screen where the medicament to be delivered by the medical device is specified.

128. The medical device of claim 123, wherein at least one of the plurality of classifications is a high risk classification.

129. The medical device of claim 123, wherein at least one of the plurality of classifications is a drug type.

130. The medical device of claim 123, wherein at least one of the plurality of classifications is an anesthetic classification.

131. The medical device of claim 123, wherein the medicament indicator includes a name for the medicament.

132. The medical device of claim 123, wherein the medicament indicator includes a non text indicia.

133. The medical device of claim 132, wherein the non text indicia is the only portion of the medicament indicator which is color coded.

134. A medical device comprising:

a graphical user interface;

a processor, the processor configured to generate at least one screen for display on the graphical user interface;

a computer readable memory, the computer readable memory storing a plurality of parameter values related to therapies which may be programmed into the medical device, at least one of said parameter values being a value for a user overrideable limit for a therapy parameter value, the user overrideable limit for a therapy parameter value overrideable by one or more user via the graphical user interface;

And wherein, the processor causes an indicia to be displayed next to the therapy parameter value in response to override of the user overrideable limit.

135. The medical device of claim 134, wherein the graphical user interface is a touch screen.

136. The medical device of claim 134, wherein at least one of the at least one screen displays a limit violation notification.

RECTIFIED SHEET (RULE 91) ISA/EP

137. The medical device of claim 136, wherein the limit violation notification does not display the value of the overrideable limit.

138. The medical device of claim 136, wherein the limit violation notification includes an override option.

139. The medical device of claim 138, wherein the user overrideable limit for a therapy parameter value requires both a first user and a second user to override the limit via the graphic user interface.

140. The medical device of claim 134, wherein the plurality of parameter values related to therapies which may be programmed into the medical device are part of a drug library file stored in the computer readable memory.

141. The medical device of claim 134, wherein the indicia is a non text indicia.

142. The medical device of claim 134, wherein the

143. A medical device comprising:

a graphical user interface;

a processor, the processor configured to generate at least one screen for display on the graphical user interface;

a computer readable memory, the computer readable memory storing a plurality of medicaments which may be delivered by the medical device, said medicaments being organized by one or more medicament category, each of said medicaments further being associated with one or more parameter values related to therapies which may be programmed into the medical device;

and wherein, a user may program the medical device to deliver a therapy using the graphical user interface, at least one step in programming the medical device comprising selecting a medicament category from which a medicament to be delivered by the medical device is included.

144. The medical device of claim 143, wherein the graphical user interface is a touch screen.

145. The medical device of claim 143, wherein the plurality of medicaments and one or more medicament categories are a part of a drug library file.

146. The medical device of claim 143, wherein the medicament categories are searchable via the graphical user interface.

RECTIFIED SHEET (RULE 91) ISA/EP

147. The medical device of claim 143, wherein the medicament categories are filterable via the graphical user interface.

148. The medical device of claim 143, wherein at least one of the one or more parameter values is a user overrideable parameter limit.

149. A medical error reduction system comprising:

a medical error reduction software for use in creating and revising at least one drug library that is configured for use in at least one medical device, the software configured to provide one of a plurality of sets of privileges to each of a plurality of sets of users, each of the plurality of sets of privileges arranged to allocate a degree of software functionality to one of the plurality of sets of users, the degree of software functionality configured to define the ability of a user to alter the at least one drug library;

at least one server; and

at least one editor computer comprising a processor in communication with a display, wherein the at least one editor computer is configured to communicate to the at least one server via a network in a client-server based model.

150. A medical error reduction system comprising:

a medical device comprising:

a medical device processor; and

a medical device graphical user interface configured to allow a user to program the medical device;

at least one server;

at least one editor computer including a processor in communication with a display, wherein the at least one editor computer is configured to communicate to the at least one server via a network in a client-server based model; and

RECTIFIED SHEET (RULE 91) ISA/EP

a medical error reduction software configured to be executed by the at least one server and accessible via the at least one editor computer for use in creating and revising at least one drug library, the at least one drug library for use in the at least one medical device and including a plurality of entries that guide user programming of the at least one medical device, wherein the medical error reduction software is further configured to display a simulated medical device graphical user interface, the simulated medical device graphical user interface mimicking behavior of the medical device graphical user interface for a medical device using one of the at least one drug library.

151. A medical device for delivering a medicament to a patient comprising:

a controller configured to control operation of a pumping mechanism which causes the medicament to be delivered;

a display;

a computer readable memory configured to store program code for a drug library, the drug library having a plurality of entries, the plurality of entries comprising at least one entry corresponding to a portion of a facility, wherein for each such entry, the plurality of entries further comprises at least one drug entry corresponding to the portion of the facility; and

a processor configured to display a graphical user interface on the display of the medical device, the graphical user interface for use by a user to program the controller using the drug library, wherein a user may select one of the at least one drug entry corresponding to the portion of the facility to program delivery of the medicament to the patient.

152. The medical device of claim 151, wherein the at least one drug entry comprises parameters associated therewith.

RECTIFIED SHEET (RULE 91) ISA/EP

153. The medical device of claim 151, wherein the drug library further comprises at least one drug entry not associated with a specific drug, but rather a broad drug category.

154. The medical device of claim 153, wherein the user may select one of the at least one drug entry in the drug library not associated with a specific drug, but rather a broad drug category to program delivery of the medicament to the patient.

155. A medical error reduction system comprising:

a drug library editing software for use in creating and revising at least one drug library for use with at least one medical device, the at least one drug library containing a plurality of entries, wherein the software is configured to provide at least one of a plurality of sets of privileges to each of a plurality of sets of users, each of the plurality of sets of privileges configured to allocate a degree of software functionality to one of the plurality of sets of users, the degree of software functionality configured to define the ability of a user to alter the at least one drug library;

at least one server configured to execute the drug library editing software; and

at least one editor computer including a processor in communication with a user interface, the at least one editor computer configured to communicate with the at least one server via a network in a client-server based model, wherein at least one of the plurality of set of users may use the at least one editor computer to access the drug library editing software to request a change to the at least one drug library.

156. The medical error reduction system of claim 153, wherein at least one of the plurality of sets of privileges is further configured to allow a user to decline implementation of the

RECTIFIED SHEET (RULE 91) ISA/EP

requested change to the at least one drug library or to accept implementation of the requested change to the at least one drug library.

157. A medical error reduction system comprising:

a drug library editing software for use in creating and revising at least one drug library, the at least one drug library including a plurality of entries, wherein the at least one drug library is for use with at least one medical device;

at least one server configured to execute the drug library editing software;

at least one editor computer comprising a processor in communication with a user interface, the user interface for use by a user to edit the at least one drug library, the at least one editor computer configured to communicate with the at least one server via a network in a client-server based model such that the at least one editor computer is able to access the drug library editing software, wherein a user may request a change to the at least one drug library by tendering an electronic change request via the user interface.

158. The medical error reduction system of claim 157, wherein the electronic change request is linkable to medical data in an electronic database to provide contextual information.

159. A medical error reduction system comprising:

a drug library editing software for use in creating and revising at least one drug library, the at least one drug library containing a plurality of entries, each of the at least one drug library for use with at least one medical device, the drug library editing software to be executed by a server;

at least one drug library database;

RECTIFIED SHEET (RULE 91) ISA/EP

at least one medical data database; and

at least one editor computer configured to communicate with the server, the at least one drug library database, and the at least one medical data database via a network, the at least one editor computer including a processor in communication with a user interface, wherein the user interface is for use by a user to edit the at least one drug library using the at least one drug library editing software, wherein while editing the at least one drug library, the user may use the drug library editing software to access medical data from the at least one medical data database.

160. The medical error reduction system of claim 159, wherein while editing the at least one drug library, the user may use the drug library editing software to access medical data from the at least one medical data database, the medical data in the form of at least one of a chart, graph, plot, and diagram displayed on the user interface.

161. The medical error reduction system of claim 159, wherein while editing the at least one drug library, a user may use the drug library editing software to display medical data from the at least one medical data database on the user interface and filter the medical data such that only medical data of interest to the user is displayed on the user interface.

162. A medical device comprising:

a graphical user interface, and

a processor, wherein the processor is configured to generate at least one screen for display on the graphical user interface, the at least one screen including at least one parameter value, the processor further configured to visibly alter the font of the at least one

RECTIFIED SHEET (RULE 91) ISA/EP

parameter value in response to a change in the order of magnitude of the at least one parameter value.

163. The medical device of claim 162, wherein the at least one screen includes a therapy in progress screen, the therapy in progress screen including a pressure indicator which indicates the pressure of a fluid in an infusion line.

164. The medical device of claim 162, wherein the at least one screen is a therapy in progress screen, the therapy in progress screen comprising a medicament indicator indicating a medicament which is being delivered by the medical device, the processor further configured to color code the medicament indicator displayed on the user interface in one of a plurality of colors, each of the plurality of colors corresponding to a classification of the medicament.

165. The medical device of claim 162 further comprising:

a computer readable memory, the computer readable memory storing a plurality of parameter values related to therapies that may be programmed into the medical device, at least one of the parameter values being a user overrideable limit for a therapy parameter value, the user overrideable limit for a therapy parameter value overrideable by a user via the graphical user interface, wherein the processor is further configured to display an indicia next to the therapy parameter value in response to the user overriding the user overrideable limit.

166. The medical device of claim 165, wherein the computer readable memory is configured to store a plurality of medicaments that may be delivered by the medical device,

RECTIFIED SHEET (RULE 91) ISA/EP

each medicament being organized into one or more medicament category, each of the medicaments further being associated with one or more parameter values related to therapies that may be programmed into the medical device, wherein a user may program the medical device, using the graphical user interface to at least select a medicament category within which a medicament to be delivered by the medical device is included.

167. A medical error reduction system comprising:

a medical error reduction software for use in creating and revising at least one drug library, the software configured to provide a set of privileges to each of a plurality of users, the set of privileges arranged to allocate a degree of software functionality to each of the plurality of users, the degree of software functionality configured to define the ability of users to alter the at least one drug library;

at least one server;

at least one editor computer each of the at least one editor computer comprising a processor in communication with a display, the at least one editor computer and at least one server configured to communicate via a network in a client-server based model; and

wherein each of the at least one drug library is for use in at least one medical device.

168. The system of claim 167, wherein each of the at least one drug library is organized in a hierarchy.

169. The system of claim 168, wherein the hierarchy includes a plurality of care areas which are subordinate to at least one care group.

170. The system of claim 168, wherein each level of the hierarchy includes a number of delivery parameters for the at least one medical device.

171. The system of claim 167, wherein each of the at least one drug library includes a plurality of entries each corresponding to a specific medicament.

172. The system of claim 167, wherein the at least one drug library includes a number of parameters to inform operation of the at least one medical device.

173. The system of claim 167, wherein the drug library includes a plurality of programming limits for the at least one medical device.

RECTIFIED SHEET (RULE 91) ISA/EP

174. The system of claim 167, wherein the medical error reduction software is further configured to provide quality improvement information to the plurality of users.

175. The system of claim 167, wherein the set of privileges is configurable to allocate a drug library review privilege.

176. The system of claim 167, wherein the set of privilege is configurable to allocate a drug library editing privilege.

177. The system of claim 167, wherein the set of privileges is configurable to allocate and editing or creation privilege.

178. The system of claim 167, wherein the set of privileges is configurable to allocate an add user privilege.

179. The system of claim 167, wherein the set of privileges allocated to each of the plurality of users force a collaborative process between the plurality of users for the creating and revising of the at least one drug library.

180. A medical error reduction system comprising:

a drug library editing software for use in creating and revising a number of drug libraries, the number of drug libraries each containing a plurality of entries, each of the at number of drug libraries for use with at least one medical device;

at least one editor computer, each of the at least one editor computer comprising a processor in communication with a user interface, the user interface for use by one or more user to edit the at least one drug library; and

wherein the drug library editing software is configured to import entries of the plurality of entries in a first drug library in the number of drug libraries to a second drug library in the number of drug libraries.

181. The system of claim 180, wherein the system further comprises at least one server configured to execute the medical error reduction software.

182. The system of claim 180, wherein the number of drug libraries are stored on a drug library database.

183. The system of claim 182, wherein the drug library database is in a hosted environments.

184. The system of claim 180, wherein the one or more user may specify the entries of the plurality of entries they would like to import to the first drug library in

RECTIFIED SHEET (RULE 91) ISA/EP

the number of drug libraries to the second drug library in the number of drug libraries.

185. The system of claim 180, wherein the first drug library in the number of drug libraries and the second drug library in the number of drug libraries both belong to a sub-set of drug libraries in the number of drug libraries.

186. The system of claim 185, wherein the sub-set of drug libraries, is associated with a set of permissions allowing access to the sub-set of drug libraries by the one or more user.

187. The system of claim 186, wherein the set of permissions disallows access to the sub-set of drug libraries by another one or more user.

188. A medical error reduction system comprising:

a drug library editing software for use in creating and revising at least one drug library, the at least one drug library containing a plurality of entries, each of the at least one drug library for use with at least one medical device, the drug library editor software to be executed by a server;

at least one drug library database storing the at least one drug library;

at least one editor computer, each of the at least one editor computer comprising a processor in communication with a user interface, the user interface for use by a user to edit the at least one drug library, the at least one editor computer and at least one drug library database configured to communicate via a network; and

wherein the plurality of entries include one or more clinical advisory.

189. The medical error reduction system of claim 188, wherein the drug library database is in a hosted environment.

190. The medical error reduction system of claim 188, wherein the one or more clinical advisory is a free text entry.

191. The medical error reduction system of claim 188, wherein the one or more clinical advisory includes an image.

192. The medical error reduction system of claim 188, wherein the one or more clinical advisory includes a document.

193. The system of claim 188, wherein the one or more clinical advisory is limited to be between 0 and 100 characters in length.

RECTIFIED SHEET (RULE 91) ISA/EP

194. The system of claim 188, wherein each of the one or more clinical advisory is associated with a short text clinical advisory.

195. The system of claim 194, wherein the short text clinical advisory is limited to be between 0 and 100 characters in length.

196. The system of claim 194, wherein the short text clinical advisory is displayed on at least one screen of a graphic user interface of the at least one medical device.

197. The system of claim 188, wherein each of the one or more clinical advisory is displayed on at least one screen of a graphic user interface of the at least one medical device.

198. The system of claim 188, wherein each of the at least one clinical advisory is associated with drug entry in the at least one drug library.

199. A medical error reduction system comprising:

a drug library editing software for use in creating and revising at least one drug library, the at least one drug library containing a plurality of entries, each of the at least one drug library for use with at least one medical device, the drug library editor software to be executed by a server;

at least one drug library database storing the at least one drug library;

at least one editor computer, each of the at least one editor computer comprising a processor in communication with a user interface, the user interface for use by a user to edit the at least one drug library, the at least one editor computer and at least one drug library database configured to communicate via a network; and

wherein the drug library editing software is configure to allow a user to enter a note for one or more of the plurality of entries.

200. The medical error reduction system of claim 199, wherein the drug library database is in a hosted environment.

201. The medical error reduction system of claim 199, wherein the note is a free text entry.

202. The medical error reduction system of claim 199, wherein the note includes an image.

203. The medical error reduction system of claim 199, wherein the note includes a document.

204. The system of claim 199, wherein the drug library editing software is configured to allow a user to enter a note for one or more sub-set of the plurality of entries.

RECTIFIED SHEET (RULE 91) ISA/EP

205. The system of claim 199, wherein the drug library editing software is configured to allow a user to enter a note for each of the plurality of entires.

206. The system of claim 199, wherein each of the plurality of entries associated with a note is depicted on the user interface with a note indicator.

207. The system of claim 199, wherein user interaction with the note indicator causes the note to be displayed on the user interface.

208. A medical error reduction system comprising:

a drug library editing software for use in creating and revising at least one drug library, the at least one drug library containing a plurality of entries, each of the at least one drug library for use with at least one medical device, the drug library editor software to be executed by a server;

at least one drug library database storing the at least one drug library;

at least one editor computer, each of the at least one editor computer comprising a processor in communication with a user interface, the user interface for use by a user to edit the at least one drug library, the at least one editor computer and at least one drug library database configured to communicate via a network; and

wherein the plurality of entires include a flush parameter.

209. The system of claim 208, wherein the flush parameter governs flushing of a fluid line associated with the at least one medical device.

210. The system of claim 208, wherein the flush parameter includes default delivery parameter values to be used by the at least one medical device when the medical device flushes a fluid line associated therewith.

211. The system of claim 210, wherein the flush parameter includes a volume to be delivered.

212. The system of claim 210, wherein the flush parameter includes a delivery rate.

213. The system of claim 210, wherein the flush parameter includes a time.

214. A medical error reduction system comprising:

a drug library editing software for use in creating and revising at least one drug library, the at least one drug library containing a plurality of entries, each of the at least one drug library for use with at least one medical device, the drug library editor software to be executed by a server;

at least one drug library database storing the at least one drug library;

RECTIFIED SHEET (RULE 91) ISA/EP

at least one editor computer, each of the at least one editor computer comprising a processor in communication with a user interface, the user interface for use by a user to edit the at least one drug library, the at least one editor computer and at least one drug library database configured to communicate via a network; and

wherein the drug library editing software is configured to display a user customizable screen which provides desired at a glance information to the user.

215. The system of claim 214, wherein the user customizable screen includes one or more widget.

216. The system of claim 215, wherein the user chooses the one or more widget which is included on the user customizable screen.

217. The system of claim 215, wherein one of the one or more widget is a progress widget.

218. The system of claim 215, wherein one of the one or more widget is a trend widget.

219. The system of claim 215, wherein one of the one or more widget is an overview widget.

220. The system of claim 215, wherein one of the one or more widget is a quick links widget.

221. The system of claim 215, wherein one of the one or more widget is a change request widget.

222. The system of claim 215, wherein one of the one or more widget is a feedback widget.

223. The system of claim 215, wherein one of the one or more widget is a medical data widget.

224. The system of claim 215, wherein one of the one or more widget is a changes to review widget.

225. The system of claim 215, wherein one of the one or more widget is an administrator comments widget.

226. The system of claim 215, wherein the user chooses the one or more widget from a list of permitted widgets.

227. The system of claim 226, wherein the user is assigned a specific role in the medical error reduction software, the list of permitted widgets associated the specific role.

228. The system of claim 214, wherein the system further comprises a user database.

229. The system of claim 214, wherein the user customizable screen, once customized, is stored on a user database and associated with the user.

RECTIFIED SHEET (RULE 91) ISA/EP

230. The system of claim 214, wherein the user customizable screen is selected from a number of loadable, customized screen configurations.

231. A medical error reduction system comprising:

a drug library editing software for use in creating and revising at least one drug library, the at least one drug library containing a plurality of entries, each of the at least one drug library for use with at least one medical device, the drug library editor software to be executed by a server;

at least one drug library database storing the at least one drug library;

at least one editor computer, each of the at least one editor computer comprising a processor in communication with a user interface, the user interface for use by a user to edit the at least one drug library, the at least one editor computer and at least one drug library database configured to communicate via a network; and

wherein the user may compare two or more entries of the plurality of entries using the drug library editing software, the comparison being displayed on the user interface.

232. The system of claim 231, wherein the comparison is display on the user interface in a table.

233. The system of claim 231, wherein the comparison is a side by side comparison.

234. The system of claim 231, wherein differences between the two or more entries in the comparison are visually indicated on the user interface.

235. The system of claim 231, wherein the comparison includes a difference only option.

236. The system of claim 235, wherein interaction with the difference only option may toggle the comparison between a state in which only differences between the two or more of the plurality of entries are shown and a state in which all information associated with the two or more of the plurality of entries is shown.

237. The system of claim 231, wherein the comparison includes an edit option which may be used to open one of the two or more of the plurality of entries for editing.

238. A method for producing a drug library file, the method comprising:

Assigning one of a plurality of sets of privileges to each of a plurality of sets of users, the plurality of sets of privileges arranged to allocate a degree of software functionality in a drug library editing software, the degree of software functionality configured to define the ability of a user to alter the at least one drug library;

RECTIFIED SHEET (RULE 91) ISA/EP

Creating a drug library using at least one editor computer, each of the at least one editor computer comprising a processor in communication with a user interface, the user interface for use by a user to edit the at least one drug library using the drug library editing software, creating the drug library comprising appropriate users of the plurality of sets of users, the appropriate users defined by the plurality of sets of privileges;

Specifying a master medication list for an institution;

Defining medication records for one or more portion of the institution;

Verifying the defined medication records;

Approving the drug library for release to at least one medical device in the institution.

239. The method of claim 238, wherein one of the plurality of sets of privileges allocates an editing privilege.

240. The method of claim 238, wherein one of the plurality of sets of privileges allocates a review privilege.

241. The method of claim 238, wherein specifying the master medication list comprises selecting a number of medications from a formulary database.

242. The method of claim 238, wherein defining medication records for one or more portion of the institution comprises selecting desired medications from the master medication list for each of the one or more portions of the institution.

243. The method of claim 242, wherein defining medication records for one or more portion of the institution comprises defining a number of parameters for each of the desired medications.

244. The method of claim 238, wherein verifying the defined medication records comprises reviewing the defined medication records.

245. The method of claim 238, wherein verifying the defined medication records comprises editing and revising the defined medication records.

246. The method of claim 238, wherein producing a drug library file further comprises conducting a pilot phase for the drug library file in which the drug library file is tested on a test medical device.

247. The method of claim 238, wherein producing a drug library file further comprises conducting a pilot phase for the drug library file in which the drug library file is tested on a simulated medical device user interface.

RECTIFIED SHEET (RULE 91) ISA/EP

248. The method of claim 238, wherein the verifying the defined medication records comprises reviewing the defined medication records using a simulated medical device user interface.

249. A method for deploying a drug library file to at least one medical device, the method comprising:

Creating the drug library file;

Approving the drug library file for release to the at least one medical device;

Sending a notification to a user via a drug error reduction system editor service;

Downloading the drug library file to a device gateway;

Disseminating the drug library file to the at least one medical device over a network which allows the device gateway to communicate with the at least one medical device.

250. The method of claim 249, wherein the method further comprises user commanding downloading of the drug library file to device gateway.

251. The method of claim 249, wherein the method further comprises selecting the at least one medical device from a list of medical devices.

252. The method of claim 249, wherein the method further comprises the device gateway periodically checking for updates to the drug library file.

253. The method of claim 249, wherein the method further comprises the at least one medical device validating the drug library file.

254. The method of claim 253, wherein the method further comprises sending a confirmation message to the device gateway from each of the at least one medical device in the event that the drug library file is successfully validated and updated.

RECTIFIED SHEET (RULE 91) ISA/EP

What is claimed is:

1. A medical error reduction system comprising:

a medical error reduction software for use in creating and revising at least one drug library, the software configured to provide one of a plurality of sets of privileges to each of a plurality of sets of users, each of the plurality of sets of privileges arranged to allocate a degree of software functionality to one of the plurality of sets of users, the degree of software functionality configured to define the ability of a user to alter the at least one drug library;

at least one server;

at least one editor computer each of the at least one editor computer comprising a processor in communication with a display, the at least one editor computer and at least one server configured to communicate via a network in a client-server based model; and

wherein each of the at least one drug library is for use in at least one medical device,

wherein a user having a first privilege level of the plurality of sets of privileges has authorization to request a change to a drug library of the at least one drug library, and

wherein a second user having a second privilege level of the plurality of sets of privileges receives the request and has authorization to approve or disapprove the change to the drug library.

2. The system of claim 1, wherein each of the at least one drug library is organized in a hierarchy.

3. The system of claim 2, wherein the hierarchy includes a plurality of care areas which are subordinate to at least one care group.

4. The system of claim 2, wherein each level of the hierarchy includes a number of delivery parameters for the at least one medical device.

5. The system of claim 1, wherein each of the at least one drug library includes a plurality of entries each corresponding to a specific medicament.

6. The system of claim 1, wherein the at least one drug library includes a number of parameters to inform operation of the at least one medical device.

7. The system of claim 1, wherein the drug library includes a plurality of programming limits for the at least one medical device.

8. The system of claim 1, wherein the medical error reduction software is further configured to provide quality improvement information to a user.

9. The system of claim 1, wherein at least one of the plurality of sets of privileges allocates a drug library review privilege to one of the plurality of sets of users.

10. The system of claim 1, wherein at least one of the plurality of sets of privileges allocates a drug library editing privilege to one of the plurality of sets of users.

11. The system of claim 1, wherein at least one of the plurality of sets of privileges allocates a privilege set editing or creation privilege to one of the plurality of sets of users.

12. The system of claim 1, wherein at least one of the plurality of sets of privileges allocates an add user privilege to one of the plurality of sets of users.

13. The system of claim 1, wherein the plurality of sets of privileges allocated to each of the plurality of sets of users force a collaborative process between the plurality of sets of users for the creating and revising of the at least one drug library.

14. A medical error reduction system comprising:

at least one server;

at least one editor computer, each of the at least one editor computer comprising a processor in communication with a display, the at least one editor computer and at least one server configured to communicate via a network in a client-server based model; and

a medical error reduction software configured to be executed by the at least one server and accessible via the at least one editor computer for use in creating and revising at least one drug library, each of the at least one drug library for use in at least one medical device with a medical device processor and a medical device graphical user interface configured to display a user interface which conveys information and may be used to program its respective medical device, each of the at least one drug library containing a plurality of entries which guide user programming of the at least one medical device,

wherein the medical error reduction software is configured to display a simulated medical device graphical user interface, the simulated medical device graphical user interface mimicking behavior of the medical device graphical user interface for a medical device using a selected drug library of the at least one drug library,

wherein a user having a first privilege level of a plurality of sets of privileges has authorization to request a change to a drug library of the at least one drug library, and

wherein a second user having a second privilege level of the plurality of sets of privileges receives the request and has authorization to approve or disapprove the change to the drug library.

15. The system of claim 14, wherein the simulated medical device graphical user interface is context sensitive.

16. The system of claim 14, wherein the medical error reduction software includes a number of privilege sets each of which being assigned to one of a plurality of sets of users, the number of privilege sets each allocating a degree of software functionality to each of the plurality of sets of users.

17. The system of claim 16, wherein the simulated medical device graphical user interface is a software functionality which may be toggled on or off the number of sets of privileges.

18. The system of claim 14, wherein each of the at least one drug library is organized in a hierarchy.

19. The system of claim 18, wherein the hierarchy includes a plurality of care areas which are subordinate to at least one care group.

20. The system of claim 18, wherein each level of the hierarchy includes a number of delivery parameters for the at least one medical device.

21. The system of claim 14, wherein each of the at least one drug library includes a plurality of entries each corresponding to a specific medicament.

22. The system of claim 14, wherein the at least one drug library includes a number of parameters to inform operation of the at least one medical device.

23. The system of claim 14, wherein the drug library includes a plurality of programming limits for the at least one medical device.

24. The system of claim 14, wherein the medical error reduction software is further configured to provide quality improvement information to a user.

25. A medical error reduction system comprising:

a drug library editing software for use in creating and revising at least one drug library, the at least one drug library containing a plurality of entries, each of the at least one drug library for use with at least one medical device, the software configured to provide one of a plurality of sets of privileges to each of a plurality of sets of users, each of the plurality of sets of privileges arranged to allocate a degree of software functionality to one of the plurality of sets of users;

at least one server; and

at least one editor computer, each of the at least one editor computer comprising a processor in communication with a user interface, the at least one editor computer and at least one server configured to communicate via a network in a client-server based model,

wherein at least one of the plurality of set of users may use the software to request a change to at least a portion of the at least one drug library,

wherein each of the at least one drug library is for use in at least one medical device,

wherein a user of the at least one of the plurality of set of users has a first privilege level of the plurality of sets of privileges has authorization to request a change to a drug library of the at least one drug library, and

wherein a second user having a second privilege level of the plurality of sets of privileges receives the request and has authorization to approve or disapprove the change to the drug library.

26. The system of claim 25, wherein at least one of the plurality of sets of privileges is configured to allow a user to decline implementation of the change.

27. The system of claim 25, wherein at least one of the plurality of sets of privileges is configured to allow a user to accept implementation of the change.

28. The system of claim 25, wherein at least one of the plurality of sets of privileges is configured to allow a user to submit a question to the change.

29. The system of claim 25, wherein at least one of the plurality of sets of privileges is configured to allow a user to propose a revision to the change.

30. The system of claim 29, wherein the server is configured to execute the medical error reduction software.

31. The system of claim 25, wherein the degree of software functionality is configured to define the ability of a user to alter the at least one drug library.

32. The system of claim 25, wherein the at least one medical device is an infusion pump.

33. A medical error reduction system comprising:

a drug library editing software for use in creating and revising at least one drug library, the at least one drug library containing a plurality of entries, each of the at least one drug library for use with at least one medical device;

at least one server configured to execute the medical error reduction software; and

at least one editor computer, each of the at least one editor computer comprising a processor in communication with a user interface, the user interface for use by one or more user to edit the at least one drug library, the at least one editor computer and at least one server configured to communicate via a network,

wherein at least one of the one or more users may request a change to the at least one drug library by tendering an electronic change request,

wherein each of the at least one drug library is for use in at least one medical device,

wherein the at least one of the one or more users user having a first privilege level of the plurality of sets of privileges has authorization to request a change to a drug library of the at least one drug library, and

wherein a second user having a second privilege level of the plurality of sets of privileges receives the request and has authorization to approve or disapprove the change to the drug library.

34. The system of claim 33, wherein the at least one medical device is an infusion pump.

35. The system of claim 33, wherein the electronic change request is linkable to medical data.

36. The system of claim 35, wherein the medical data is stored in an electronic database to provide contextual information.

37. The system of claim 36, wherein the electronic database is in a hosted environment.

38. The system of claim 35, wherein the medical data is generated from the at least one medical device.

39. The system of claim 38, wherein the medical data in is stored in an electronic database and is associated with the one of the at least one drug library used in the at least one medical device which generated the medical data.

40. The system of claim 35, wherein the medical data is displayed in the form of a table

41. The system of claim 35, wherein the medical data is displayed in the form of a chart.

42. The system of claim 35, wherein the medical data is displayed in the form of a graph.

43. The system of claim 35, wherein the medical data is displayed in the form of a diagram.

44. The system of claim 35, wherein the medical data is displayed in the form of an infusion story.

45. The system of claim 35, wherein a user may use the drug library editing software to search the medical data.

46. The system of claim 35, wherein a user may use the drug library editing software to filter the medical data.

47. The system of claim 35, wherein the medical data is displayed in a user selectable format.

48. The system of claim 35, wherein the user may only access medical data for versions of the one of the at least one library currently being edited.

49. The system of claim 35, wherein the plurality of entries are each associated with one or more delivery parameters.

50. The system of claim 35, wherein at least one of the one or more user may accept the electronic change request.

51. The system of claim 35, wherein at least one of the one or more user may respond to the electronic change request.

52. The system of claim 35, wherein at least one of the one or more user may propose an alteration to the electronic change request.

53. The system of claim 35, wherein at least one of the one or more user may deny the electronic change request.

54. A medical error reduction system comprising:

a drug library editing software for use in creating and revising at least one drug library, the at least one drug library containing a plurality of entries, each of the at least one drug library for use with at least one medical device, the drug library editing software to be executed by a server;

at least one drug library database;

at least one medical data database; and

at least one editor computer, each of the at least one editor computer comprising a processor in communication with a user interface, the user interface

for use by a user to edit the at least one drug library, the at least editor computer, at least one drug library database, and at least one medical data database configured to communicate via a network,

wherein while editing the at least one drug library, the user may use the drug library editing software to access medical data

wherein each of the at least one drug library is for use in at least one medical device,

wherein the user having a first privilege level of the plurality of sets of privileges has authorization to request a change to a drug library of the at least one drug library, and

wherein a second user having a second privilege level of the plurality of sets of privileges receives the request and has authorization to approve or disapprove the change to the drug library.

55. The system of claim 54, wherein the medical data is stored in the at least one medical data database.

56. The system of claim 55, wherein the at least one medical data database is stored in a hosted environment.

57. The system of claim 54, wherein the medical data is displayed in the form of a chart.

58. The system of claim 54, wherein the medical data is displayed in the form of a graph.

59. The system of claim 54, wherein the medical data is displayed in the form of a table.

60. The system of claim 54, wherein the medical data is displayed in the form of a diagram.

61. The system of claim 54, wherein the medical data is displayed in the form of an infusion story.

62. The system of claim 54, wherein the medical data is displayed in a user selectable format.

63. The system of claim 54, wherein the access medical data is searchable.

64. The system of claim 54, wherein the accessed medical data is filterable by applying a filter.

65. The system of claim 64, wherein the filter is a device type filter.

66. The system of claim 64, wherein the filter is a data category.

67. The system of claim 64, wherein the filter is a therapy based criteria.

68. The system of claim 64, wherein the filter is a medical device identifier.

69. The system of claim 64, wherein the filter is a care giver identifier.

70. The system of claim 64, wherein the filter is an area based criteria.

71. The system of claim 64, wherein the filter is a drug criteria.

72. The system of claim 71, wherein the drug criteria is a drug identifier.

73. The system of claim 71, wherein the drug criteria is a drug type.

74. The system of claim 54, wherein the at least one drug library database is in a hosted environment.

75. The system of claim 54, wherein the medical device is an infusion pump.

76. A medical error reduction system comprising:

a drug library editing software for use in creating and revising at least one drug library, the at least one drug library containing a plurality of entries, each of the at least one drug library for use with at least one medical device, the drug library editor software to be executed by a server;

at least one drug library database;

at least one medical data database; and

at least one editor computer, each of the at least one editor computer comprising a processor in communication with a user interface, the user interface for use by a user to edit the at least one drug library, the at least one editor computer, at least one drug library database, and at least one medical data database configured to communicate via a network,

wherein while creating or revising the at least one drug library, the drug library editing software is configured to display medical data from the at least one medical data database on the user interface and filter the medical data with a filter criteria.,

wherein the user having a first privilege level of a plurality of sets of privileges has authorization to request a change to a drug library of the at least one drug library, and

wherein a second user having a second privilege level of the plurality of sets of privileges receives the request and has authorization to approve or disapprove the change to the drug library.

77. The system of claim 76, wherein the at least one medical device is an infusion pump.

78. The system of claim 76, wherein the at least one drug library database is in a hosted environment.

79. The system of claim 76, wherein the at least one medical data database is in a hosted environment.

80. The system of claim 76, wherein the filter criteria is user selectable.

81. The system of claim 76, wherein the filter criteria is a medical device type.

82. The system of claim 76, wherein the filter criteria is a data category.

83. The system of claim 76, wherein the filter criteria is a therapy based criteria.

84. The system of claim 76, wherein the filter criteria is a medical device identifier.

85. The system of claim 76, wherein the filter criteria is a care giver identifier.

86. The system of claim 76, wherein the filter criteria is a care area based criteria.

87. The system of claim 76, wherein the filter criteria is a drug criteria.

88. The system of claim 87, wherein the drug criteria is a drug identifier.

89. The system of claim 87, wherein the drug criteria is a drug type.

90. The system of claim 76, wherein the filter criteria may be applied by interaction with the medical data displayed on the user interface to display a subset of the medical data.

91. The system of claim 76, wherein the filter criteria may be applied by interaction with the medical data displayed on the user interface to drill down on the medical data.

92. The system of claim 76, wherein the medical data may be display on the user interface in one or more of a number of user specified formats.

93. A medical error reduction system comprising:

a medical error reduction software for use in creating and revising at least one drug library that is configured for use in at least one medical device, the software configured to provide one of a plurality of sets of privileges to each of a plurality of sets of users, each of the plurality of sets of privileges arranged to allocate a degree of software functionality to one of the plurality of sets of users, the degree of software functionality configured to define the ability of a user to alter the at least one drug library;

at least one server; and

at least one editor computer comprising a processor in communication with a display, wherein the at least one editor computer is configured to communicate to the at least one server via a network in a client-server based model,

wherein the user having a first privilege level of the plurality of sets of privileges has authorization to request a change to a drug library of the at least one drug library, and

wherein a second user having a second privilege level of the plurality of sets of privileges receives the request and has authorization to approve or disapprove the change to the drug library.

94. A medical error reduction system comprising:

a medical device comprising:

a medical device processor; and

a medical device graphical user interface configured to allow a user to program the medical device;

at least one server;

at least one editor computer including a processor in communication with a display, wherein the at least one editor computer is configured to communicate to the at least one server via a network in a client-server based model; and

a medical error reduction software configured to be executed by the at least one server and accessible via the at least one editor computer for use in creating and revising at least one drug library, the at least one drug library for use in the at least one medical device and including a plurality of entries that guide user programming of the at least one medical device, wherein the medical error

reduction software is further configured to display a simulated medical device graphical user interface, the simulated medical device graphical user interface mimicking behavior of the medical device graphical user interface for a medical device using one of the at least one drug library, wherein a user having a first privilege level of a plurality of sets of privileges has authorization to request a change to a drug library of the at least one drug library, and

wherein a second user having a second privilege level of the plurality of sets of privileges receives the request and has authorization to approve or disapprove the change to the drug library.

95. A medical error reduction system comprising:

a drug library editing software for use in creating and revising at least one drug library for use with at least one medical device, the at least one drug library containing a plurality of entries, wherein the software is configured to provide at least one of a plurality of sets of privileges to each of a plurality of sets of users, each of the plurality of sets of privileges configured to allocate a degree of software functionality to one of the plurality of sets of users, the degree of software functionality configured to define the ability of a user to alter the at least one drug library; and

at least one server configured to execute the drug library editing software; and

at least one editor computer including a processor in communication with a user interface, the at least one editor computer configured to communicate with the at least one server via a network in a client-server based model, wherein at least one of the plurality of set of users may use the at least one editor computer to access the drug library editing software to request a change to the at least one drug library,

wherein the user having a first privilege level of a plurality of sets of privileges has authorization to request a change to a drug library of the at least one drug library, and

wherein a second user having a second privilege level of the plurality of sets of privileges receives the request and has authorization to approve or disapprove the change to the drug library.

96. The medical error reduction system of claim 94, wherein at least one of the plurality of sets of privileges is further configured to allow a user to decline implementation of the requested change to the at least one drug library or to accept implementation of the requested change to the at least one drug library.

97. A medical error reduction system comprising:

a drug library editing software for use in creating and revising at least one drug library, the at least one drug library including a plurality of entries, wherein the at least one drug library is for use with at least one medical device;

at least one server configured to execute the drug library editing software; and

at least one editor computer comprising a processor in communication with a user interface, the user interface for use by a user to edit the at least one drug library, the at least one editor computer configured to communicate with the at least one server via a network in a client-server based model such that the at least one editor computer is able to access the drug library editing software, wherein a user may request a change to the at least one drug library by tendering an electronic change request via the user interface,

wherein the user having a first privilege level of a plurality of sets of privileges has authorization to request a change to a drug library of the at least one drug library, and

wherein a second user having a second privilege level of the plurality of sets of privileges receives the request and has authorization to approve or disapprove the change to the drug library.

98. The medical error reduction system of claim 97, wherein the electronic change request is linkable to medical data in an electronic database to provide contextual information.

99. A medical error reduction system comprising:

a drug library editing software for use in creating and revising at least one drug library, the at least one drug library containing a plurality of entries, each of the at least one drug library for use with at least one medical device, the drug library editing software to be executed by a server;

at least one drug library database;

at least one medical data database; and

at least one editor computer configured to communicate with the server, the at least one drug library database, and the at least one medical data database via a network, the at least one editor computer including a processor in communication with a user interface, wherein the user interface is for use by a user to edit the at least one drug library using the at least one drug library editing software, wherein while editing the at least one drug library, the user may use the drug library editing software to access medical data from the at least one medical data database,

wherein the user having a first privilege level of a plurality of sets of privileges has authorization to request a change to a drug library of the at least one drug library, and

wherein a second user having a second privilege level of the plurality of sets of privileges receives the request and has authorization to approve or disapprove the change to the drug library.

100. The medical error reduction system of claim 99, wherein while editing the at least one drug library, the user may use the drug library editing software to access medical data from the at least one medical data database, the medical data in the form of at least one of a chart, graph, plot, and diagram displayed on the user interface.

101. The medical error reduction system of claim 99, wherein while editing the at least one drug library, a user may use the drug library editing software to display medical data from the at least one medical data database on the user interface and filter the medical data such that only medical data of interest to the user is displayed on the user interface.

102. A medical error reduction system comprising:

a medical error reduction software for use in creating and revising at least one drug library, the software configured to provide a set of privileges to each of a plurality of users, the set of privileges arranged to allocate a degree of software functionality to each of the plurality of users, the degree of software functionality configured to define the ability of users to alter the at least one drug library;

at least one server; and

at least one editor computer each of the at least one editor computer comprising a processor in communication with a display, the at least one editor computer and at least one server configured to communicate via a network in a client-server based model,

wherein each of the at least one drug library is for use in at least one medical device,

wherein a user having a first privilege level of the plurality of sets of privileges has authorization to request a change to a drug library of the at least one drug library, and

wherein a second user having a second privilege level of the plurality of sets of privileges receives the request and has authorization to approve or disapprove the change to the drug library.

103. The system of claim 102, wherein each of the at least one drug library is organized in a hierarchy.

104. The system of claim 103, wherein the hierarchy includes a plurality of care areas which are subordinate to at least one care group.

105. The system of claim 103, wherein each level of the hierarchy includes a number of delivery parameters for the at least one medical device.

106. The system of claim 102, wherein each of the at least one drug library includes a plurality of entries each corresponding to a specific medicament.

107. The system of claim 102, wherein the at least one drug library includes a number of parameters to inform operation of the at least one medical device.

108. The system of claim 102, wherein the drug library includes a plurality of programming limits for the at least one medical device.

109. The system of claim 102, wherein the medical error reduction software is further configured to provide quality improvement information to the plurality of users.

110. The system of claim 102, wherein the set of privileges is configurable to allocate a drug library review privilege.

111. The system of claim 102, wherein the set of privilege is configurable to allocate a drug library editing privilege.

112. The system of claim 102, wherein the set of privileges is configurable to allocate and editing or creation privilege.

113. The system of claim 102, wherein the set of privileges is configurable to allocate an add user privilege.

114. The system of claim 102, wherein the set of privileges allocated to each of the plurality of users force a collaborative process between the plurality of users for the creating and revising of the at least one drug library.

115. A medical error reduction system comprising:

a drug library editing software for use in creating and revising a number of drug libraries, the number of drug libraries each containing a plurality of entries, each of the at number of drug libraries for use with at least one medical device; and

at least one editor computer, each of the at least one editor computer comprising a processor in communication with a user interface, the user interface for use by one or more user to edit the at least one drug library,

wherein the drug library editing software is configured to import entries of the plurality of entries in a first drug library in the number of drug libraries to a second drug library in the number of drug libraries,

wherein a user of the one or more users having a first privilege level of a plurality of sets of privileges has authorization to request a change to a drug library of the at least one drug library, and

wherein a second user having a second privilege level of the plurality of sets of privileges receives the request and has authorization to approve or disapprove the change to the drug library.

116. The system of claim 115, wherein the system further comprises at least one server configured to execute the medical error reduction software.

117. The system of claim 115, wherein the number of drug libraries are stored on a drug library database.

118. The system of claim 117, wherein the drug library database is in a hosted environments.

119. The system of claim 115, wherein the one or more user may specify the entries of the plurality of entries they would like to import to the first drug library in the number of drug libraries to the second drug library in the number of drug libraries.

120. The system of claim 115, wherein the first drug library in the number of drug libraries and the second drug library in the number of drug libraries both belong to a sub-set of drug libraries in the number of drug libraries.

121. The system of claim 120, wherein the sub-set of drug libraries, is associated with a set of permissions allowing access to the sub-set of drug libraries by the one or more user.

122. The system of claim 121, wherein the set of permissions disallows access to the sub-set of drug libraries by another one or more user.

123. A medical error reduction system comprising:

a drug library editing software for use in creating and revising at least one drug library, the at least one drug library containing a plurality of entries, each of the at least one drug library for use with at least one medical device, the drug library editor software to be executed by a server;

at least one drug library database storing the at least one drug library; and

at least one editor computer, each of the at least one editor computer comprising a processor in communication with a user interface, the user interface for use by a user to edit the at least one drug library, the at least one editor computer and at least one drug library database configured to communicate via a network,

wherein the plurality of entries include one or more clinical advisory,

wherein the user having a first privilege level of a plurality of sets of privileges has authorization to request a change to a drug library of the at least one drug library, and

wherein a second user having a second privilege level of the plurality of sets of privileges receives the request and has authorization to approve or disapprove the change to the drug library.

124. The medical error reduction system of claim 123, wherein the drug library database is in a hosted environment.

125. The medical error reduction system of claim 123, wherein the one or more clinical advisory is a free text entry.

126. The medical error reduction system of claim 123, wherein the one or more clinical advisory includes an image.

127. The medical error reduction system of claim 123, wherein the one or more clinical advisory includes a document.

128. The system of claim 123, wherein the one or more clinical advisory is limited to be between 0 and 100 characters in length.

129. The system of claim 123, wherein each of the one or more clinical advisory is associated with a short text clinical advisory.

130. The system of claim 129, wherein the short text clinical advisory is limited to be between 0 and 100 characters in length.

131. The system of claim 129, wherein the short text clinical advisory is displayed on at least one screen of a graphic user interface of the at least one medical device.

132. The system of claim 123, wherein each of the one or more clinical advisory is displayed on at least one screen of a graphic user interface of the at least one medical device.

133. The system of claim 123, wherein each of the at least one clinical advisory is associated with drug entry in the at least one drug library.

134. A medical error reduction system comprising:

a drug library editing software for use in creating and revising at least one drug library, the at least one drug library containing a plurality of entries, each of the at least one drug library for use with at least one medical device, the drug library editor software to be executed by a server;

at least one drug library database storing the at least one drug library; and

at least one editor computer, each of the at least one editor computer comprising a processor in communication with a user interface, the user interface for use by a user to edit the at least one drug library, the at least one editor computer and at least one drug library database configured to communicate via a network,

wherein the drug library editing software is configure to allow a user to enter a note for one or more of the plurality of entries,

wherein the user having a first privilege level of a plurality of sets of privileges has authorization to request a change to a drug library of the at least one drug library, and

wherein a second user having a second privilege level of the plurality of sets of privileges receives the request and has authorization to approve or disapprove the change to the drug library.

135. The medical error reduction system of claim 134, wherein the drug library database is in a hosted environment.

136. The medical error reduction system of claim 134, wherein the note is a free text entry.

137. The medical error reduction system of claim 134, wherein the note includes an image.

138. The medical error reduction system of claim 134, wherein the note includes a document.

139. The system of claim 134, wherein the drug library editing software is configured to allow a user to enter a note for one or more sub-set of the plurality of entries.

140. The system of claim 134, wherein the drug library editing software is configured to allow a user to enter a note for each of the plurality of entires.

141. The system of claim 134, wherein each of the plurality of entries associated with a note is depicted on the user interface with a note indicator.

142. The system of claim 134, wherein user interaction with the note indicator causes the note to be displayed on the user interface.

143. A medical error reduction system comprising:

a drug library editing software for use in creating and revising at least one drug library, the at least one drug library containing a plurality of entries, each of the at least one drug library for use with at least one medical device, the drug library editor software to be executed by a server;

at least one drug library database storing the at least one drug library; and

at least one editor computer, each of the at least one editor computer comprising a processor in communication with a user interface, the user interface for use by a user to edit the at least one drug library, the at least one editor computer and at least one drug library database configured to communicate via a network,

wherein the plurality of entires include a flush parameter,

wherein the user having a first privilege level of a plurality of sets of privileges has authorization to request a change to a drug library of the at least one drug library, and

wherein a second user having a second privilege level of the plurality of sets of privileges receives the request and has authorization to approve or disapprove the change to the drug library.

144. The system of claim 143, wherein the flush parameter governs flushing of a fluid line associated with the at least one medical device.

145. The system of claim 143, wherein the flush parameter includes default delivery parameter values to be used by the at least one medical device when the medical device flushes a fluid line associated therewith.

146. The system of claim 145, wherein the flush parameter includes a volume to be delivered.

147. The system of claim 145, wherein the flush parameter includes a delivery rate.

148. The system of claim 145, wherein the flush parameter includes a time.

149. A medical error reduction system comprising:

a drug library editing software for use in creating and revising at least one drug library, the at least one drug library containing a plurality of entries, each of the at least one drug library for use with at least one medical device, the drug library editor software to be executed by a server;

at least one drug library database storing the at least one drug library; and

at least one editor computer, each of the at least one editor computer comprising a processor in communication with a user interface, the user interface for use by a user to edit the at least one drug library, the at least one editor computer and at least one drug library database configured to communicate via a network,

wherein the drug library editing software is configured to display a user customizable screen which provides desired at a glance information to the user,

wherein the user having a first privilege level of a plurality of sets of privileges has authorization to request a change to a drug library of the at least one drug library, and

wherein a second user having a second privilege level of the plurality of sets of privileges receives the request and has authorization to approve or disapprove the change to the drug library.

150. The system of claim 149, wherein the user customizable screen includes one or more widget.

151. The system of claim 150, wherein the user chooses the one or more widget which is included on the user customizable screen.

152. The system of claim 150, wherein one of the one or more widget is a progress widget.

153. The system of claim 150, wherein one of the one or more widget is a trend widget.

154. The system of claim 150, wherein one of the one or more widget is an overview widget.

155. The system of claim 150, wherein one of the one or more widget is a quick links widget.

156. The system of claim 150, wherein one of the one or more widget is a change request widget.

157. The system of claim 150, wherein one of the one or more widget is a feedback widget.

158. The system of claim 150, wherein one of the one or more widget is a medical data widget.

159. The system of claim 150, wherein one of the one or more widget is a changes to review widget.

160. The system of claim 150, wherein one of the one or more widget is an administrator comments widget.

161. The system of claim 150, wherein the user chooses the one or more widget from a list of permitted widgets.

162. The system of claim 161, wherein the user is assigned a specific role in the medical error reduction software, the list of permitted widgets associated the specific role.

163. The system of claim 149, wherein the system further comprises a user database.

164. The system of claim 149, wherein the user customizable screen, once customized, is stored on a user database and associated with the user.

165. The system of claim 149, wherein the user customizable screen is selected from a number of loadable, customized screen configurations.

166. A medical error reduction system comprising:

a drug library editing software for use in creating and revising at least one drug library, the at least one drug library containing a plurality of entries, each of the at least one drug library for use with at least one medical device, the drug library editor software to be executed by a server;

at least one drug library database storing the at least one drug library; and

at least one editor computer, each of the at least one editor computer comprising a processor in communication with a user interface, the user interface for use by a user to edit the at least one drug library, the at least one editor computer and at least one drug library database configured to communicate via a network,

wherein the user may compare two or more entries of the plurality of entries using the drug library editing software, the comparison being displayed on the user interface,

wherein the user having a first privilege level of a plurality of sets of privileges has authorization to request a change to a drug library of the at least one drug library, and

wherein a second user having a second privilege level of the plurality of sets of privileges receives the request and has authorization to approve or disapprove the change to the drug library.

167. The system of claim 166, wherein the comparison is display on the user interface in a table.

168. The system of claim 166, wherein the comparison is a side by side comparison.

169. The system of claim 166, wherein differences between the two or more entries in the comparison are visually indicated on the user interface.

170. The system of claim 166, wherein the comparison includes a difference only option.

171. The system of claim 170, wherein interaction with the difference only option may toggle the comparison between a state in which only differences between the two or more of the plurality of entries are shown and a state in which all information associated with the two or more of the plurality of entries is shown.

172. The system of claim 166, wherein the comparison includes an edit option which may be used to open one of the two or more of the plurality of entries for editing.

173. A method for producing a drug library file, the method comprising:

assigning one of a plurality of sets of privileges to each of a plurality of sets of users, the plurality of sets of privileges arranged to allocate a degree of software functionality in a drug library editing software, the degree of software functionality configured to define the ability of a user to alter the at least one drug library;

creating a drug library using at least one editor computer, each of the at least one editor computer comprising a processor in communication with a user interface, the user interface for use by a user to edit the at least one drug library using the drug library editing software, creating the drug library comprising appropriate users of the plurality of sets of users, the appropriate users defined by the plurality of sets of privileges;

specifying a master medication list for an institution;

defining medication records for one or more portion of the institution;

verifying the defined medication records; and

approving the drug library for release to at least one medical device in the institution,

wherein the user having a first privilege level of the plurality of sets of privileges has authorization to request a change to a drug library of the at least one drug library, and

wherein a second user having a second privilege level of the plurality of sets of privileges receives the request and has authorization to approve or disapprove the change to the drug library.

174. The method of claim 173, wherein one of the plurality of sets of privileges allocates an editing privilege.

175. The method of claim 173, wherein one of the plurality of sets of privileges allocates a review privilege.

176. The method of claim 173, wherein specifying the master medication list comprises selecting a number of medications from a formulary database.

177. The method of claim 173, wherein defining medication records for one or more portion of the institution comprises selecting desired medications from the master medication list for each of the one or more portions of the institution.

178. The method of claim 177, wherein defining medication records for one or more portion of the institution comprises defining a number of parameters for each of the desired medications.

179. The method of claim 173, wherein verifying the defined medication records comprises reviewing the defined medication records.

180. The method of claim 173, wherein verifying the defined medication records comprises editing and revising the defined medication records.

181. The method of claim 173, wherein producing a drug library file further comprises conducting a pilot phase for the drug library file in which the drug library file is tested on a test medical device.

182. The method of claim 173, wherein producing a drug library file further comprises conducting a pilot phase for the drug library file in which the drug library file is tested on a simulated medical device user interface.

183. The method of claim 173, wherein the verifying the defined medication records comprises reviewing the defined medication records using a simulated medical device user interface.