

[0012] ~~It is, therefore, an object of certain embodiments of this invention to provide~~ methods and/or systems having beneficial features that enable automation of qualification and confirmation of clinical trial activities, data, and results and permits future objective evaluation of clinical trial results. ~~It is another object of certain embodiments of this invention to validate~~ data through use of embedded data.

[0013] ~~Embodiments may include a method implemented by a computing device for processing data associated with a clinical trial, the method including receiving collected data with embedded metadata; extracting the embedded metadata; accessing a database for determining characteristics of the embedded metadata; accessing protocol rules, wherein the protocol rules includes a set of data collection requirements and procedures; ensuring compliance of the embedded metadata by comparing the characteristics of the embedded metadata with the protocol rules; and reporting the compliance or non-compliance of the collected data in real-time, near real-time or other time intervals.~~ According to an aspect, there is provided a method implemented by a computing device for processing metadata associated with a clinical trial, the method comprising: receiving a clinical trial data collection proposal with embedded metadata; extracting the embedded metadata; accessing a database for determining characteristics of the embedded metadata; accessing protocol rules, wherein the protocol rules comprise a set of clinical trial requirements and procedures; ensuring compliance of the embedded metadata by comparing the characteristics of the embedded metadata with the protocol rules; and reporting the compliance or non-compliance of the received clinical trial data collection proposal prior to receiving collected data related to the clinical trial data collection proposal.

[0014] This Summary is provided to introduce a selection of concepts in a simplified form further described below in the detailed description. This Summary is not intended to identify key features or essential features of the claimed subject matter, nor is it intended to be used as an aid in determining the scope of the claimed subject matter. Additional features, advantages, and embodiments of the invention are set forth or apparent from consideration of the following detailed description, drawings and claims. Moreover, it is to be understood that both the foregoing summary of the invention and the following detailed description are exemplary and intended to provide further explanation without limiting the scope of the invention as claimed.

BRIEF DESCRIPTION OF THE DRAWINGS

[0015] The accompanying drawings, which are included to provide a further understanding of the invention and are incorporated in and constitute a part of this specification, illustrate the invention and together with the detailed description serve to explain the principles of the invention. In the drawings: