CLAIMS

WHAT IS CLAIMED IS:

1. A diagnosis and treatment record compliance management method for an oral management system, comprising the following steps:

S1: extracting data from an electronic medical record of a patient, and extracting a feature tag from each module in the electronic medical record based on data extraction;

S2: obtaining data contents associated with the feature tag based on feature tag extraction, performing semantic diagnosis and treatment keyword recognition on feature tag contents, and transmitting diagnosis and treatment data obtained through the semantic diagnosis and treatment keyword recognition to a compliance check module;

wherein the semantic diagnosis and treatment keyword recognition uses syntactic diagnosis and treatment data keyword splitting, diagnosis and treatment data keyword entity alignment and topological structure diagram calculation to extract the diagnosis and treatment data;

the topological structure diagram calculation comprises:

A1: defining a single diagnosis and treatment data keyword $a_i \in \{a_1, a_2, \dots, a_n\}$;

A2: calculating an association degree $d_{[i][j]}$ between the data keyword and the specified data in the consumable data deducted by a hospital and the doctor income data, where j is the index number of a data node in the consumable data deducted by the hospital and the doctor income data;

A3: during the calculation of the association degree $d_{[i][j]}$, specifying a mode of custom setup of association weight, establishing a weight list based on an individual diagnosis and treatment data keyword to classify the consumable data deducted by the hospital and the doctor income data under a specified weight based on the weight list; and

A4: finding an association data set with a highest association degree between the single diagnosis and treatment data keyword, the consumable data deducted by the hospital and the doctor income data by means of proximity searching;

S3: comparing the association data set with consumable data deducted by a hospital and doctor income data respectively, and judging the diagnosis and treatment compliance of the doctor according to comparative calculation results.

2. The diagnosis and treatment record compliance management method for an oral management system according to claim 1, wherein in S1, during the feature tag extraction, a feature tag list is established, the data in the electronic medical record is traversed and indexed according to the feature tag list to designate feature tag positioning.

3. The diagnosis and treatment record compliance management method for an oral management system according to claim 2, wherein during the feature tag positioning, whether the data contents associated with the feature tag are null or not is judged; if the data contents are null, a return value is zero and the feature tag is removed; or, if the data contents are not null, a return value is one and the feature tag is kept.

4. The diagnosis and treatment record compliance management method for an oral management system according to claim 1, wherein during splitting of the syntactic diagnosis and treatment data keywords, the data contents extracted from each module are subjected to word segmentation according to a syntactic structure, so as to judge whether diagnosis and treatment data keywords subjected to word segmentation are various proper nouns; if the diagnosis and treatment data keywords are not the proper nouns, the diagnosis and treatment data keywords are subjected to secondary word segmentation.

5. The diagnosis and treatment record compliance management method for an oral management system according to claim 4, wherein during the word segmentation, a positioning tag is established according to the part of speech of the diagnosis and treatment data keywords subjected to word segmentation, and the positioning tag is used as a flag bit to position and extract the diagnosis and treatment data keywords.

6. The diagnosis and treatment record compliance management method for an oral management system according to claim 1, wherein in the topological structure diagram calculation, an associated topological structure diagram of the diagnosis and treatment data keywords, the consumable data deducted by a hospital, and the doctor income data is established, that is, after a single diagnosis and treatment data keyword is locked, a traceability query of the consumable data deducted by a hospital and the doctor income data are capable of being performed in a multi-way manner.

7. The diagnosis and treatment record compliance management method for an oral management system according to claim 6, wherein an association factor is established among the diagnosis and treatment data keywords, the consumable data deducted by a hospital, and the doctor income data, to measure the association degree thereof.

8. The diagnosis and treatment record compliance management method for an oral management system according to claim 7, wherein when the association degree is high, a distance between medical attributes and the diagnosis and treatment data keywords is close; and when the association degree is low, a distance between medical attributes and the diagnosis and treatment data keywords is far, whereby forming a topological structure diagram for the diagnosis and treatment data keywords.

9. The diagnosis and treatment record compliance management method for an oral management system according to claim 1, wherein a function of automatically collecting and monitoring uploading signals of the electronic medical record is set in a compliance management module; and after the doctor issues an electronic medical record for a patient, the compliance management module receives and updates response data of the electronic medical record, and performs automatic matching of the diagnosis and treatment data, the consumption data of medical consumables, and the doctor income data in the electronic medical record, to judge doctor diagnosis and treatment compliance.