治療成績を反映した抗菌薬選択ツールの構築とその有用性

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Development of a tool in order to select suitable antibiotics based on treatment records and its usefulness

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Abstract

In the present study, we developed a tool to select suitable antibiotics, which considered not only antibiotics sensitivities of the detected bacteria but also effectiveness of antibiotics based on the treatment records in the Kashiwa Koyo hospital. The selection of suitable antibiotic was performed by working relationally the three databases. The data of patients who had been administered antibiotics in 2003, that is, name of the antibiotics, administration date, patient's body temperature, C reactive protein level, etc. were stored in DB1. The efficacy of the antibiotics administered to patients was evaluated on the basis of the data, and antibiotics were listed up in order of efficacy. The DB2 stored the sensitivity data on the 27 kinds of antibiotics of the bacteria those were detected in the antibiotics sensitivity test in 2003. On the basis of these data, the rank of antibiotics was listed up in order of the rate of sensitivity to the detected bacteria. The DB3, which stored the name of infection disease and the names of bacteria those had been published to cause generally the diseases, was used to exclude the bacteria which are independent of the diseases from the bacteria selected in DB2. The figure of the efficacy rate vs. the sensitivity rate of antibiotics showed that there were antibiotics with low efficacy rate, even if the antibiotics had high sensitivity rate, suggesting that the present tool is useful for the selection of the most suitable antibiotic.