

Current Status of Cefaclor Adverse Drug Reaction in Dong-A University Hospital

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Background/Aims: Cefaclor is an oral antibiotic drug of 2nd generation cephalosporin antibiotics. The use of cefaclor is gradually increasing, and the number of cases of adverse drug reaction (ADR) related cefaclor reported in the last five years has more than doubled. However, there are few studies on ADR of cefaclor in Korea, and we analyzed in current status of cefaclor ADR in Dong-A University hospital. **Methods:** Patients with cefaclor or other cephalosporin ADR were reported to the regional pharmacovigilance center in Dong-A university hospital from 2014 to 2018 and the cases with “possible”, “probable”, or “certain” by WHO-UMC causality criteria were analyzed. We evaluated the incidence rate (IR) of ADR caused by cefaclor and other cephalosporin in our hospital. We analyzed clinical feature of cefaclor ADR according to phenotype and severity, and compared to other cephalosporin ADR. **Results:** The total number of ADRs to cefaclor and other cephalosporin was 150 and 2133, respectively. Among them, the number of ADRs occurred in our hospital was 12 and 1287. IR of cefaclor ADR was lower than that of other cephalosporin ADR (cefaclor, 0.16 %, 1st cephalosporin 0.47 %, 2nd cephalosporin, 0.70 %, 3rd cephalosporin, 0.75%, 4th cephalosporin, 2.93 %, total cephalosporin, 0.68%). However, the proportion of type B was higher in cefaclor ADR than in other cephalosporin ADR (cefaclor, 94 %, 1st cephalosporin, 34.2 %, 2nd cephalosporin 47.5 %, 3rd cephalosporin 50.0 %, 4th cephalosporin, 58.9 %, total cephalosporin, 45.5 %), and the proportion of anaphylaxis in cefaclor ADR was also much higher than those in other cephalosporin ADR (cefaclor, 63.2 %, 1st cephalosporin, 2.9 %, 2nd cephalosporin, 1.3 %, 3rd cephalosporin, 0.4 %, 4th cephalosporin, 0 %, total cephalosporin, 1.3 %). **Conclusions:** The incidence rate of cefaclor was not high when compared with other cephalosporin associated ADRs in our hospital. However, anaphylaxis was much more common in cefaclor than in other cephalosporin. Large-scaled studies and a management plan for cefaclor ADR are needed in the future.

