The aim of this study was to compare the cytotoxic effect of some of the most widely used antifungal eye drops on corneal keratocytes cells (KCH) using xcelligence real-time (RTCA) monitoring of dynamic changes induced by cell–toxicant interaction.

**Purpose**

- Kinetic curve surviving rates show the antifungal eye drops studied, induced decline in the cell surviving.
- The effects are dose and time dependent in all compounds tested.

**Methods**

A primary culture was carried out from human cornea. All experiments were performed with the same short passing.

**Results**

Cell cytotoxicity was assessed using the label-free and real-time monitoring xCELLigence system (RTCA) (ACEA Biosciences, San Diego, CA).

Under this platform, Normal Cell index (CI) was the parameter used to represent cell status based on the measured electrical impedance.

**Conclusions**

These results can be particularly relevant to warn of cytotoxic effects of antifungal eye drops manufactured by Hospital Pharmacy Departments which are being used in concentrations that exceed the IC50 determined.