BACKGROUND

Hydrogen Peroxide 3%, Sodium Hypochlorite 2,5%, and Chlorhexidine Gluconate 0,2% are some dental liquid that is often used as a root canal irrigation. That liquid should not be cytotoxic. Purpose. The aim of this study is to prove the toxicity effect of Hydrogen Peroxide 3%, Sodium Hypochlorite 2,5%, and Chlorhexidine Gluconate 0,2% on BHK-21 Fibroblast Cell with MTT Assay.

METHOD

Hydrogen Peroxide 3%, Sodium Hypochlorite 2,5%, and Chlorhexidine Gluconate 0,2% are applied on BHK-21 Fibroblast Cell. Culture BHK-21 Fibroblast Cell with MTT Assay is incubated at 37 °C for 24 hours. ELISA Reader used to read the result of the experimental study. The data is compared and examined by One Way ANNOVA and HSD Turkey Test.

RESULT

Hydrogen Peroxide 3% is the most toxic to the fibroblast cells followed by Hypochlorite 2,5%, and Chlorhexidine Gluconate 0,2%.

CONCLUSION

Hydrogen Peroxide 3%, Sodium Hypochlorite 2,5%, and Chlorhexidine Gluconate 0,2% are toxic to BHK-21 Fibroblast Cell.

KEYWORDS: Irrigant, BHK-21 Fibroblast Cell, toxicity