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***In Vitro* Evaluation of Cytotoxic and Antiproliferative Activity of a Polyherbal Extract against H9c2 Cardiac Cells.**

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Abstract: Recent studies indicate that in addition to necrosis and apoptosis also plays a vital role in the process of tissue damage after myocardial infarction, which has a pathological and therapeutically implications. However, limited effort has been made to correlate these effects to the active ingredients of the polyherbal (PH) extract .The present study was designed to elucidate the cytotoxic and antiproliferative activity against H9c2 cardiac cell line , were analysed the quantitative detection of caspase-3 activity during the early apoptotic process was evaluated by **Fluorometric Immunosorbant Enzyme Assay (FIENA)**. Late stage of apoptosis was evaluated by DNA fragmentation. PH extract appear to contain components that inhibit the proliferation of H9c2cardiac cells. Expression of caspase-3 was induced by PH extract at 5g eq/L after 6 hr of treatment increases compared to the control. An increase in DNA fragmentation was also observed in the PH extract treatment.

Keywords: Polyherbal (PH) extract, H9c2, apoptosis, DNA fragmentation, Caspase-3, antiproliferation, FIENA.

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