

Title	A study of the hypoxia-protective effects of the anaesthetic drug dexmedetomidine in chick embryo fibroblasts  Suchitra. M.R, Sumathi S., Sudha B., Parthasarathy.S.
Paper ID	7iVs4
Keywords	Anaesthesia, drug, Dexmedetomidine, hypoxia, damage, protection
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*Cite as:*

*Suchitra. M.R, Sumathi S., Sudha B., Parthasarathy.S. A study of the hypoxia-protective effects of the anaesthetic drug dexmedetomidine in chick embryo fibroblasts. Informatica: 2023;34;(4)88-105*

**Abstract:**

**Background:** Hypoxia is harmful to tissues because it predisposes them to anaerobic metabolism and cell death. This lack of oxygen to tissues becomes more significant during anaesthesia. Dexmedetomidine, a novel drug in the anaesthesiology arsenal, has many appealing anaesthetic properties. If this drug also has tissue protective effects after hypoxia, it will increase interest in its use in sick patients. **Methodology:** As a result, primary cell cultures of chick embryos were used in this study to examine the cytotoxic potential of a standard drug, dexmedetomidine, and its effects on cells induced with hypoxia by a chemical inducer such as Cobalt chloride. **Results and Conclusion:** With the use of the drug, the effects of hypoxia within the cellular environment were significantly less. This is the first such study on an important anaesthetic drug. The anti-hypoxic quality of this drug may prove that the drug be very useful in conducting major operations.