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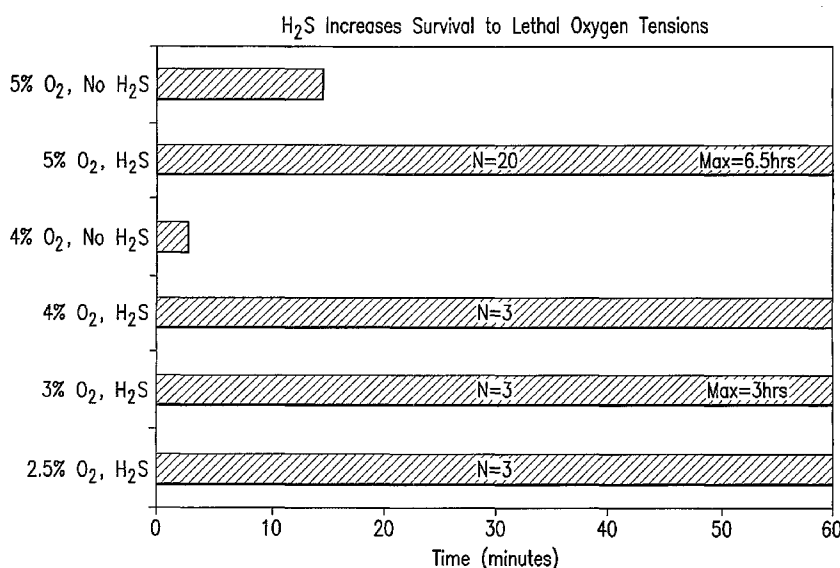
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(54) Title: METHODS, COMPOSITIONS AND ARTICLES OF MANUFACTURE FOR ENHANCING SURVIVABILITY OF CELLS, TISSUES, ORGANS, AND ORGANISMS



(57) Abstract: The present invention concerns the use of oxygen antagonists and other active compounds for inducing stasis or pre-stasis in cells, tissues, and/or organs *in vivo* or in an organism overall, in addition to enhancing their survivability. It includes compositions, methods, articles of manufacture and apparatuses for enhancing survivability and for achieving stasis or pre-stasis in any of these biological materials, so as to preserve and/or protect them. In specific embodiments, there are also therapeutic methods and apparatuses for organ transplantation, hyperthermia, wound healing, hemorrhagic shock, cardioplegia for bypass surgery, neurodegeneration, hypothermia, and cancer using the active compounds described.



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