

TITLE: TOWARDS A BETTER MANAGEMENT OF CANCER: FURTHER RECOMMENDATIONS FROM SURGEONS TO ANESTHESIA TEAM.

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Cancer is the second leading cause of death globally. About 1 in 6 deaths is due to cancer and 70% occurs in LMICs. Local tumor recurrence and/or distal metastasis after surgical resection remain among the cause of morbidities and mortalities in solid tumor's patients, despite advanced therapies available. Trying to figure out the possible role of anesthesia to their recurrence and metastases after surgical resection, this study dogged deep and generate evidences and recommendation. An online published articled search was done. This was a systematic literature on PubMed, researchgate, cancerjournal, international anesthesia research society and WHO. They are recent from 2015. The main key search were "use of anesthesia and cancer recurrence", " local anesthesia and cancer surgery", " general anesthesia and cancer surgery outcome". 10 articles were reviewed and considered based on clinical trials. In total we received 10 papers form the developing world. Volatile Anesthetics attenuated NK cell tumor cytotoxicity by inhibiting LFA-1, conjugation of NK cell with tumor cell and they also attenuate granzyme polarization. Volatile anesthesia found associated with metastasis while intravenous anesthetics (Ketamine and halothane) enhanced lung retention of breast Adenocarcinoma but Propofol didn't. In vivo studies and clinical data show some evidence that regional anesthesia is beneficial for cancer patients as it may decrease the risk of metastasis. Anesthetic choices during cancer surgery positively or negatively affect immune function during the perioperative period. The immune balance needs to be shifted toward positive effects to reduce immunosuppression, which promotes cancer metastasis. We may prefer regional anesthesia or propofol as other trials are carried out.

Keywords: cancers recurrence, anesthetics, immune system

BIBIOGRAPHY:

I am Niyomugaba Fulgence, a level 4 medical student at University of Rwanda (UR). I am a National Officer on Research exchange (NORE) in Medical Students' Association of Rwanda (MEDSAR). I am young researcher, I have no publication but I have an intention of working in many research projects so that I contribute to evidence based medicine.

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