
**I would like to dedicate this research to
my.....**

Loving mother and father,

Sister and brothers,

Husband wael, and

Department of clinical chemistry

Firstly, I would like to thank my supervisor Dr. Samia Mahdi Ahmed for her guidance and support.

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Abstract

In the last few years cancer become widely distributed in Sudan for unknown reasons.

Chemotherapy is the most common type of treatment used for treating cancer, which has a wide side effects on human body. (Perry and Michael 2008)

This study was held from April to July 2010 in 81 cancer patients under chemotherapy treatment. Forty six were females (aged 23 to 76 years), whereas 35 were males (aged 17 to 81 years), who were attended at radiation and isotopes center in Khartoum, to assess the effect of chemotherapy on urea and creatinine.

Blood sample from each patient was taken and serum was obtained in plain container, serum urea and creatinine levels were measured using spectrophotometer.

Statistical analysis of results showed that chemotherapy has no effect on serum urea and creatinine levels of cancer patients who were treated with chemotherapy.

Also the study revealed that the duration of chemotherapy has no effect on serum urea and creatinine levels.

مستخلص الدراسة

أصبح مرض السرطان من أكثر الأمراض انتشارا في السودان في الآونة الأخيرة ولأسباب غير معروفة. أكثر أنواع العلاج المستخدم في السودان لعلاج السرطان هو العلاج الكيميائي الذي له آثار جانبية على الجسم.

أجريت هذه الدراسة في الفترة من شهر ابريل إلى يوليو 2010 على 81 مصابا بالسرطان، كان منهم 46 إناثا تتراوح أعمارهم بين (23_76 سنة)، 35 ذكور تتراوح أعمارهم بين

(17_81 سنة)، في مركز العلاج النووي والإشعاعي، كان قد تم علاجهم بالدواء (17_81 سنة).
الكيميائي لمعرفة تأثير الدواء الكيميائي على مستوى اليوريا والكرياتينين

جمعت عينة دم من كل مريض وتمت معالجتها للحصول على المصل ومن ثم تم قياس اليوريا والكرياتينين باستخدام جهاز الاسبكتروفوتوميتر.

أثبتت نتائج التحليل الإحصائي لهذه العينات أن الدواء الكيميائي لا يؤثر على اليوريا والكرياتينين.

كما خلصت الدراسة إلى أن مدة استخدام الدواء الكيميائي لا يؤثر على اليوريا والكرياتينين حيث لا يزيد مستوى اليوريا والكرياتينين بزيادة فترة العلاج .