Use of Sodium Meta Arsenite For The Treatment Of Multiple Myeloma

~~Pharmaceutical compositions comprising of arsenous acid, its sodium salt and its derivatives intended for the treatment of urogenital cancer and its metastasis.~~

1. Introduction

Cancer is a significant health problem in the world. Although advances have been made in cancer detection and treatment, no vaccine or other universally successful preventive or therapeutic method is currently available. Management of the disease currently relies on a combination of early diagnosis and aggressive treatment, which may include one or more of a variety of therapies such as surgery, radiotherapy, chemotherapy and hormone therapy. While such therapies provide benefit to many patients, a high mortality continues to be observed for many cancers. The development of improved anti-tumour agents would facilitate cancer prevention and treatment.

Unfortunately, cancer is the leading cause of death, second only to heart disease, of both men and women. In the fight against cancer, numerous techniques have been developed and are the subject of current research directed to understanding the nature and cause of the disease and to providing methods for the control or cure thereof.

Although thousands of potential anti-cancer agents have been evaluated, the treatment of human cancer remains

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Abstract

The present application relates to pharmaceutical compositions and methods for treatment of urogenital diseases and bone metastasis in a human, which pharmaceutical composition contains an effective amount of *arsenous acid alkaline or earth alkaline metal salt* and/or a pharmaceutically acceptable adjuvant. According to the present invention, the alkaline arsenous acid metal salt is sodium meta-arsenita(AsO_2Na) or potassium meta-arsenite(AsO_2K). The effective amount of arsenous acid alkaline or earth alkaline metal salt is 0.0001-1500 mg/kg, preferably 1-1000 mg/kg, more preferably 1-150 mg/kg, and most preferably 50-100 mg/kg of body weight/day. The administration form of the pharmaceutical compositions of the invention is preferably oral, such as a tablet, capsule, powder and/or solution with a pharmaceutically acceptable carrier, diluent or excipient.

No suitable figure

Claims

1. Use of sodium meta arsenite for treatment of pain and/or inflammation associated with cancer.

2. Use according to claim 1 for the treatment of inflammation associated with cancer.

3. Use according to claim 1 for the treatment of pain associated with cancer.

4. Use according to claim 3 wherein the cancer is bone cancer.

Claims

1. Use of sodium meta arsenite and one or more pharmaceutically acceptable: adjuvants; excipients; carriers; buffers; or diluents, for the manufacture of a medicament for the treatment of multiple myeloma in a human.

2. Use according to claim 1, wherein the medicament is formulated for oral, nasal or injectable administration.

3. Use according to any one of claims 1 and 2, wherein said medicament is for treating multiple myeloma in combination with other therapeutic treatments.

4. Use according to claim 3, wherein said other treatment is chemotherapy.

5. Use according to claim 3 wherein said other treatment is radiation treatment.

6. Use according to claim 1, wherein said medicament comprises from 2.5 to 20 mg sodium meta arsenite.