

This invention provides: 1) a method of treating androgen-deprivation induced osteoporosis, bone fractures, loss of bone mineral density (BMD), and/or hot flashes in a male subject suffering from prostate cancer; 2) a method of preventing androgen-deprivation induced osteoporosis, bone fractures, loss of bone mineral density (BMD), and/or hot flashes in a male subject suffering from prostate cancer; 3) a method of suppressing or inhibiting androgen-deprivation induced osteoporosis, bone fractures, loss of bone mineral density (BMD), and/ or hot flashes in a male subject suffering from prostate cancer; and 4) a method of reducing the risk of developing androgen-deprivation induced osteoporosis, bone fractures, loss of bone mineral density (BMD), and/ or hot flashes in a male subject suffering from prostate cancer, by administering to the subject a pharmaceutical composition comprising cis-clomiphene or a pharmaceutically acceptable salt thereof.