

COMMON NAMES AND LATIN SYNONYMS FOR UNCARIA TOMENTOSA

CAT'S CLAW

GARABATO

HANK'S CLAY

PARAGUAYO

UNA DE GATO

UNA DE GAVILAN

UNA-DE-GATO

ETHNOMEDICAL INFORMATION ON UNCARIA TOMENTOSA

UNCARIA TOMENTOSA (RUBIACEAE) BARK PERU

USED AGAINST TUMORS.

DECOCTION * ORAL * HUMAN ADULT * L04137

USED AS AN ANTIINFLAMMATORY.

DECOCTION * ORAL * HUMAN ADULT * L04137

USED AGAINST CONCEPTION.

DECOCTION * ORAL * HUMAN ADULT * FEMALE * L04137

UNCARIA TOMENTOSA (RUBIACEAE) DRIED BARK PERU

USED FOR INFECTION.

INFUSION * ROUTE NOT GIVEN * HUMAN ADULT * J13160

USED AGAINST TUMORS.

DECOCTION * ROUTE NOT GIVEN * HUMAN ADULT * J12291

USED TO TREAT CANCER.

INFUSION * ORAL * HUMAN ADULT * J13160

USED FOR DIABETES.

DECOCTION * ORAL * HUMAN ADULT * J12291

USED FOR AIDS.

DECOCTION * ORAL * HUMAN ADULT * J12291

USED FOR RHEUMATISM.

DECOCTION * ORAL * HUMAN ADULT * J12291

ETHNOMEDICAL INFORMATION ON UNCARIA TOMENTOSA

UNCARIA TOMENTOSA (RUBIACEAE) DRIED BARK PERU

USED FOR ARTHRITIS.

DECOCTION * ORAL * HUMAN ADULT * J12291

USED FOR RHEUMATISM.

INFUSION * ORAL * HUMAN ADULT * J13160

USED AS AN ANTIINFLAMMATORY.

DECOCTION * ORAL * HUMAN ADULT * K27875

USED AS AN ANTIINFLAMMATORY.

BARK * ORAL * HUMAN ADULT * L03868

USED FOR WOUNDS.

DECOCTION * EXTERNAL * HUMAN ADULT * J12291

USED FOR PROSTATITIS.

DECOCTION * ORAL * HUMAN ADULT * J12291

UNCARIA TOMENTOSA (RUBIACEAE) DRIED ROOTBARK PERU

USED TO TREAT CANCER.

DECOCTION * ORAL * HUMAN ADULT * K08663

USED TO TREAT CANCER.

INFUSION * ORAL * HUMAN ADULT * K17909

USED TO TREAT ARTHRITIS.

DECOCTION * ORAL * HUMAN ADULT * K08663

USED TO TREAT ARTHRITIS.

INFUSION * ORAL * HUMAN ADULT * K17909

USED TO TREAT INTESTINAL DISORDERS.

INFUSION * ORAL * HUMAN ADULT * K17909

BIOLOGICAL ACTIVITIES FOR EXTRACTS OF UNCARIA TOMENTOSA

UNCARIA TOMENTOSA (RUBIACEAE) DRIED BARK PERU

ANTIINFLAMMATORY ACTIVITY * LYOPHILIZED EXTRACT * HUMAN ADULT * MALE * ORAL * DOSE 100.0 MG/DAY * ACTIVE * E00861 * THE PURPOSE OF THIS INVESTIGATION WAS TO EVALUATE THE ABILITY OF CAT'S CLAW, AN AMOZONIAN MEDICINAL PLANT, TO TREAT OSTEOARTHRITIS OF THE KNEE, COLLECT SAFETY AND TOLERANCE INFORMATION AND COMPARE THE ANTIOXIDANT, AND ANTI-INFLAMMATORY ACTIONS OF UNCARIA GUIANENSIS AND UNCARIA TOMENTOSA IN VITRO. FORTY-FIVE PATIENTS WITH OSTEOARTHRITIS OF THE KNEE WERE RECRUITED, 30 WERE TREATED WITH FREEZE-DRIED U. GUIANENSIS, AND 15 WITH PLACEBO. CAT'S CLAW IS AN EFFECTIVE TREATMENT FOR OSTEOARTHRITIS. THE SPECIES, U.GUIANENSIS AND U.TOMENTOSA ARE EQUIACTIVE. THEY ARE EFFECTIVE ANTIOXIDANTS, BUT THEIR ANTI-INFLAMMATORY PROPERTIES MAY RESULT FROM THEIR ABILITY TO INHIBIT TNFALPHA AND TO A LESSER EXTENT PGE2 PRODUCTION.

ANTIALZHEIMER'S ACTIVITY * TYPE EXT NOT STATED * HUMAN ADULT * ROUTE NOT GIVEN * DOSE NOT STATED * ACTIVE * E01043 *

DATA INCOMPLETE - DERIVED FROM AN ABSTRACT.

ANTIMUTAGENIC ACTIVITY * DECOCTION * HUMAN ADULT * ORAL * OPTIMAL DOSE 6.5 GM/DAY * ACTIVE * SALMONELLA TYPHIMURIUM TA98 * K10349 * TWO HEALTHY DONORS, ONE A SMOKER AND ONE NOT, WERE GIVEN EXTRACT FOR 15 DAYS, AFTER WHICH THEIR URINE WAS RETESTED FOR MUTAGENESIS AGAINST GIVEN BACTERIUM. TREATMENT DECREASED SMOKERS URINE'S MUTAGENICITY.

ANTIMUTAGENIC ACTIVITY * DECOCTION * HUMAN ADULT * ORAL * OPTIMAL DOSE 6.5 GM/DAY * ACTIVE * SALMONELLA TYPHIMURIUM TA100 * K10349 * TWO HEALTHY DONORS, ONE A SMOKER AND ONE NOT, WERE GIVEN EXTRACT FOR 15 DAYS, AFTER WHICH THEIR URINE WAS RETESTED FOR MUTAGENESIS AGAINST GIVEN BACTERIUM. TREATMENT DECREASED SMOKERS URINE'S MUTAGENICITY.

IMMUNOSTIMULANT ACTIVITY * LYOPHILIZED EXTRACT * MOUSE * INTRAGASTRIC * DOSE 400.0 MG/KG * ACTIVE * L03088 * ACTIVATED PHAGOCYTOSIS AS MEASURED BY THE CARBON CLEARANCE TEST.

ANALGESIC ACTIVITY * LYOPHILIZED EXTRACT * MOUSE * INTRAGASTRIC * DOSE 10.0 MG/KG * ACTIVE * L03092 *

ANALGESIC ACTIVITY * LYOPHILIZED EXTRACT * MOUSE * IV INFUSION * DOSE 10.0 MG/KG * ACTIVE * L03092 *

BIOLOGICAL ACTIVITIES FOR EXTRACTS OF UNCARIA TOMENTOSA

UNCARIA TOMENTOSA (RUBIACEAE) DRIED BARK PERU

ANTIINFLAMMATORY ACTIVITY * LYOPHILIZED EXTRACT * MOUSE * IP * DOSE 10.0 GM/KG * ACTIVE * L03092 * INHIBITED INFLAMMATION BY 70%.

TOXICITY ASSESSMENT(QUANTITATIVE) * LYOPHILIZED EXTRACT * RAT * IP * LD50 0.431 GM/KG * . * L03092 *

TOXICITY ASSESSMENT(QUANTITATIVE) * LYOPHILIZED EXTRACT * RAT * INTRAGASTRIC * DOSE 0.2 GM/KG * . * L03092 * EXTRACT WAS ADMINSTERED FOR 30 DAYS.

TOXIC EFFECT(GENERAL) * LYOPHILIZED EXTRACT * HUMAN ADULT * ORAL * DOSE 10.0 GM/PERSON * ACTIVE * L03092 *

ANTIINFLAMMATORY ACTIVITY * LYOPHILIZED EXTRACT * HUMAN ADULT * GIVEN TO BOTH SEXES * ORAL * DOSE 5.0 GM/PERSON * ACTIVE * L03092 * TREATMENT OF PATIENTS WITH OSTEOARTHRITIS WAS COMPARABLE TO IBUPROFEN 400 MG OR PARACETAMOL(ACETOMINOPHEN) 500 MG.

ANTIINFLAMMATORY ACTIVITY * H2O EXT * RAT * MALE * IN DRINKING WATER * DOSE 5.0 MG/ML * ACTIVE * INTESTINE * L04246 * VS.RATS WITH CHRONIC INTESTINAL INFLAMMATION INDUCED BY INDOMETHACIN (7.5 MG/KG).

ANTIINFLAMMATORY ACTIVITY * ETOAC EXT * RAT * INTRAGASTRIC * DOSE NOT STATED * ACTIVE * L21589 *

VS.5-HT-INDUCED PEDAL EDEMA.

DATA INCOMPLETE - DERIVED FROM AN ABSTRACT.

ANTIINFLAMMATORY ACTIVITY * H2O EXT * RAT * INTRAGASTRIC * DOSE NOT STATED * ACTIVE * L21589 *

VS.5-HT-INDUCED PEDAL EDEMA.

DATA INCOMPLETE - DERIVED FROM AN ABSTRACT.

ANTIULCER ACTIVITY * LYOPHILIZED EXTRACT * RAT * IN DRINKING WATER * DOSE 5.0 MG/ML * ACTIVE * L22165 *

VS.INDOMETHACIN-INDUCED ULCERS.

IMMUNOSTIMULANT ACTIVITY * H2O EXT * MOUSE * FEMALE * IN DRINKING WATER * DOSE 250.0 MG/KG * ACTIVE * L23484 * INCREASED SPLEEN CELL NUMBERS IN 25 DAYS.

SEE ARTICLE FOR OTHER TEST RESULTS.

BIOLOGICAL ACTIVITIES FOR EXTRACTS OF UNCARIA TOMENTOSA

UNCARIA TOMENTOSA (RUBIACEAE) DRIED BARK PERU

ANTITUMOR ACTIVITY * H2O EXT * MOUSE * FEMALE * IN DRINKING WATER * DOSE 500.0 MG/KG * ACTIVE * L23484 *
INCREASED SURVIVAL OF PERIPHERAL LEUKOCYTES.

SEE ARTICLE FOR OTHER TEST RESULTS.

ANTIINFLAMMATORY ACTIVITY * PET ETHER EXT * RAT * IP * DOSE NOT STATED * ACTIVE * M25334 *

UNCARIA TOMENTOSA (RUBIACEAE) FREEZE-DRIED BARK PERU

ANTIINFLAMMATORY ACTIVITY * HYDRO-ALCOHOLIC EXT * MOUSE * FEMALE * INTRAGASTRIC * DOSE 50.0 MG/KG * ACTIVE
* L20682 *

VS.CARRAGEENAN-INDUCED PEDAL EDEMA.

ANTIINFLAMMATORY ACTIVITY * H2O EXT * MOUSE * FEMALE * INTRAGASTRIC * DOSE 200.0 MG/KG * ACTIVE * L20682 *

VS.CARRAGEENAN-INDUCED PEDAL EDEMA.

UNCARIA TOMENTOSA (RUBIACEAE) BUD/FLOWER PERU

ANTIAMNESIC ACTIVITY * CHCL3 EXT * MOUSE * MALE * IP * DOSE 20.0 MG/KG * ACTIVE * L22463 * VS.SCOPOLAMINE-
INDUCED AMNESIA.

BIOLOGICAL ACTIVITIES FOR EXTRACTS OF UNCARIA TOMENTOSA

UNCARIA TOMENTOSA (RUBIACEAE) PART NOT SPECIFIED PERU

ANTIINFLAMMATORY ACTIVITY * TYPE EXT NOT STATED * HUMAN ADULT * GIVEN TO BOTH SEXES * ORAL * DOSE 100.0 MG/DAY * EQUIVOCAL * E01920 * A STUDY WAS DESIGNED TO DETERMINE IF A NATURAL MINERAL SUPPLEMENT, SIERRASIL, ALONE AND IN COMBINATION WITH CAT'S CLAW(UNCARIA GUIANENSIS) OR PLACEBO, ADMINISTERED FOR 8 WEEKS HAS THERAPEUTIC POTENTIAL IN MILD TO MODERATE OSTEOARTHRITIS OF THE KNEE. PATIENTS(N=107) WITH MILD TO MODERATE OSTEOARTHRITIS OF THE KNEE WERE RANDOMLY ASSIGNED TO ONE OF 4 GROUPS; HIGH SIERRASIL (2G/DAY), LOW DOSE SIERRASIL(2 g/DAY)+ CATS CLAW EXTRACT(100MG/DAY) OR PLACEBO, ADMINISTERED FOR 8 WEEKS. TREATMENT WAS DOUBLE BLINDED. PRIMARY EFFICACY VARIABLES WERE WOMAC SCORES(A,B,C AND TOTAL). VISUAL ANALOG SCORE(VAS) FOR PAIN, CONSUMPTION OF RESCUE MEDICATION(PARACETAMOL), AND TOLERABILITY WERE SECONDARY VARIABLES. SAFETY MEASURES INCLUDED VITAL SIGNS AND LABORATORY- BASED ASSAYS. NINETY-ONE OF THE 107 PATIENTS SUCCESSFULLY COMPLETED THE PROTOCOL. ALL FOUR GROUPS SHOWED IMPROVEMENT IN WOMAC AND VAS SCORES AFTER 8 WEEKS(PLESS 0.001), IN ALL 3 GROUPS RECEIVING SIERRASIL THE MAGNITUDE OF BENEFITS WERE GREATER VS. PLACEBO(WOMAC TOTAL 38-43% VS.27%) BUT THIS WAS NOT STATISTICALLY SIGNIFICANT. IN REFERENCE TO BASELINE VALUES SIERRASIL TREATED GROUPS HAD A CONSIDERABLY FASTER ONSET OF BENEFITS. PLACEBO-TREATED INDIVIDUALS FAILED TO SHOW SIGNIFICANT BENEFITS AT 4 WEEKS (11% REDUCTION IN TOTAL WOMAC). IN CONTRAST, AFTER 1 OR 2 WEEKS OF THERAPY ALL THE SIERRASIL GROUPS DISPLAYED SIGNIFICANT REDUCTIONS IN WOMAC SCORES(P LESS 0.05) AND AT WEEK 4 DISPLAYED A 38-43% IMPROVEMENT. VAS WAS SIGNIFICANTLY IMPROVED AT 4 WEEKS IN ALL GROUPS (P LESS 0.001) BUT WAS SIGNIFICANTLY GREATER IN ALL SIERRASIL GROUPS COMPARED TO PLACEBO(P LESS 0.05). RESCUE MEDICATION USE WAS 28-23% LOWER IN THE HERBO MINERAL COMBINATION AND HIGH DOSE SIERRASIL GROUPS ALTHOUGH NOT STATISTICALLY DIFFERENT FROM PLACEBO(P=0.101 AND P=0.193, RESPECTIVELY) TOLERABILITY WAS GOOD FOR ALL GROUPS, SERIOUS ADVERSE EVENTS WERE NOTED AND SAFETY PARAMETERS REMAINED UNCHANGED. THE NATURAL MINERAL SUPPLEMENT, SIERRASIL ALONE AND IN COMBINATION WITH A CAT'S CLAW EXTRACT, IMPROVED JOINT HEALTH AND FUNCTION WITHIN 1-2 WEEKS OF TREATMENT BUT SIGNIFICANT BENEFITS OVER PLACEBO WERE NOT SUSTAINED, POSSIBLY DUE TO RESCUE MEDICATION MASKING. SIERRASIL MAY OFFER AN ALTERNATIVE THERAPY IN SUBJECTS WITH JOINT PAIN AND DYSFUNCTION.

EFFECTS DESCRIBED ARE FROM A MULTI-COMPONENT RX.

SEE ARTICLE FOR OTHER TEST RESULTS.

UNCARIA TOMENTOSA (RUBIACEAE) COMMERCIAL SAMPLE OF PART NOT SPECIFIED PERU

DNA REPAIR SYNTHESIS STIMULATION * HOT H2O EXT * RAT * FEMALE * ORAL * DOSE 80.0 MG/KG * ACTIVE * CELLS-RAT-SPLEEN * L08117 * UNCARIA TOMENTOSA WATER EXTRACTS HAVE BEEN SHOWN TO INCREASE WHITE BLOOD CELLS AND HAVE ENHANCED DNA REPAIR.

WBC STIMULANT * HOT H2O EXT * RAT * FEMALE * ORAL * DOSE VAR ACTIVE * BLOOD * L08117 * UNCARIA TOMENTOSA WATER EXTRACTS HAVE BEEN SHOWN TO INCREASE WHITE BLOOD CELLS AND HAVE ENHANCED DNA REPAIR.

BIOLOGICAL ACTIVITIES FOR EXTRACTS OF UNCARIA TOMENTOSA

UNCARIA TOMENTOSA (RUBIACEAE) DRIED ROOT

ANTIINFLAMMATORY ACTIVITY * H2O EXT * MOUSE * IP * DOSE NOT STATED * ACTIVE * T04747 * A TANNIN-FREE EXTRACT WAS USED.

VS.CARRAGEENAN-INDUCED PEDAL EDEMA.

DATA INCOMPLETE - DERIVED FROM AN ABSTRACT.

ANTIINFLAMMATORY ACTIVITY * H2O EXT * MOUSE * GASTRIC INTUBATION * DOSE NOT STATED * ACTIVE * T04747 * A TANNIN-FREE EXTRACT WAS USED.

VS.CARRAGEENAN-INDUCED PEDAL EDEMA.

DATA INCOMPLETE - DERIVED FROM AN ABSTRACT.

ANTIFERTILITY EFFECT(UNSPECIFIED) * H2O EXT * MOUSE * FEMALE * GASTRIC INTUBATION * DOSE 6.25 MG/KG * ACTIVE * T04747 * A TANNIN-FREE EXTRACT WAS USED.

DATA INCOMPLETE - DERIVED FROM AN ABSTRACT.

BIOLOGICAL ACTIVITY REPORTED HAS BEEN PATENTED.

ANTIFERTILITY EFFECT(UNSPECIFIED) * H2O EXT * MOUSE * FEMALE * GASTRIC INTUBATION * DOSE 25.0 MG/KG * ACTIVE * T04747 * A TANNIN-FREE EXTRACT WAS USED.

DATA INCOMPLETE - DERIVED FROM AN ABSTRACT.

BIOLOGICAL ACTIVITY REPORTED HAS BEEN PATENTED.

IMMUNOSTIMULANT ACTIVITY * H2O EXT * HUMAN ADULT * ROUTE NOT GIVEN * DOSE NOT STATED * ACTIVE * CANCER (HUMAN) * T04747 * A TANNIN-FREE EXTRACT WAS USED. INCREASED IG LEVELS IN MELANOMA PATIENTS WERE NOTED AFTER ADMINISTERING THE EXTRACT..

DATA INCOMPLETE - DERIVED FROM AN ABSTRACT.

BIOLOGICAL ACTIVITY REPORTED HAS BEEN PATENTED.

UNCARIA TOMENTOSA (RUBIACEAE) DRIED ROOT PERU

PHAGOCYTOSIS STIMULATION * ROOT * MOUSE * INTRAGASTRIC * DOSE NOT STATED * ACTIVE * GRANULOCYTE/MACROPHAGE PROGENITOR CELL * E01110 * VS.CARBON-CLEARING TEST.

ANTIINFLAMMATORY ACTIVITY * ROOTBARK * RAT * INTRAGASTRIC * DOSE NOT STATED * ACTIVE * E01110 * VS.CARRAGEENAN-INDUCED RAT PAW EDEMA.

VS.STRYCHNINE-INDUCED CONVULSIONS.

VS.CARRAGEENAN-INDUCED PEDAL EDEMA.

BIOLOGICAL ACTIVITIES FOR EXTRACTS OF UNCARIA TOMENTOSA

UNCARIA TOMENTOSA (RUBIACEAE) DRIED ROOT PERU

ANTIMUTAGENIC ACTIVITY * DECOCTION * HUMAN ADULT * MALE * ORAL * DOSE NOT STATED * ACTIVE * E01110 *
ADMINISTRATION OF DECOCTION OF V.TOMENTOSA FOR 15 DAYS BY A SMOKER DECREASED MUTAGENICITY OF THE
SUBJECTS URINE.

THESE DATA ARE FROM A REVIEW ARTICLE.

TOXIC EFFECT(GENERAL) * LYOPHILIZED EXTRACT * MOUSE * INTRAGASTRIC * DOSE 40.0 ML/KG * ACTIVE * E01110 * TEN
MICE WERE TREATED WITH A LYOPHILIZED AQUEOUS ROOT EXTRACT (CONTAINING 35 MG PENTACYCLIC OXINDOLE
ALKALOIDS PER G) BY INTRAGASTRIC LAVAGE. SOME ANIMALS DIED-2/10. AUTOPSY REVEALED HEMMORRHAGE OF
STOMACH AND INTESTINES.

THESE DATA ARE FROM A REVIEW ARTICLE.

TOXICITY ASSESSMENT(QUANTITATIVE) * LYOPHILIZED EXTRACT * MOUSE * INTRAGASTRIC * LD50 D16.0 MG/KG * . *
E01110 *

THESE DATA ARE FROM A REVIEW ARTICLE.

TOXIC EFFECT(GENERAL) * H2O EXT * RAT * GIVEN TO BOTH SEXES * INTRAGASTRIC * DOSE 1.0 MG/DAY * WEAK ACTIVITY
* E01110 * REPEATED ORAL DOSE TOXICITY STUDY. AQUEOUS ROOT EXTRACT ADMINISTERED (CONTAINING 7.5 MG
TOTAL OXIDOLE ALKALOIDS PER G) FOR 28 DAYS. INCREASE IN GRANULOCYTES, INCREASE IN KIDNEY WT. NO
MORTALITIES. NO-EFFECT LEVEL EQUAL TO DOSE USED.

THESE DATA ARE FROM A REVIEW ARTICLE.

LYMPHOCYTE PROLIFERATION STIMULATION * H2O EXT * HUMAN ADULT * GIVEN TO BOTH SEXES * ORAL * DOSE 20.0
MG/DAY * ACTIVE * LYMPHOCYTES-HUMAN * E01110 * 13 SUBJECTS WITH HIV-INFECTION RECEIVED 20 MG/D OF U.
TOMENTOSA ROOT EXTRACT (CONTAINING 12 MG TOTAL PENTACYCLIC OXINDOLE ALKALOIDS PER G. PATIENTS WERE
CLASSIFIED ACCORDING TO CDC. AFTER 2.5-5.0 MONTHS AN INCREASE IN LYMPHOCYTES WAS OBSERVED IN ALL
PATIENTS. NO EFFECT WAS OBSERVED ON THE T4/T8 CELL RATIO.

THESE DATA ARE FROM A REVIEW ARTICLE.

UNCARIA TOMENTOSA (RUBIACEAE) DRIED ROOTBARK

ANTIINFLAMMATORY ACTIVITY * CHCL3-MEOH(9:1) * RAT * INTRAGASTRIC * DOSE 50.0 MG/KG * ACTIVE * M27076 * EDEMA
WAS INHIBITED BY 69.2%.

VS.CARRAGEENAN-INDUCED PEDAL EDEMA.

ANTIINFLAMMATORY ACTIVITY * H2O EXT * RAT * INTRAGASTRIC * DOSE 84.0 MG/KG * ACTIVE * M27076 * EDEMA WAS
INHIBITED BY 41.2%.

VS.CARRAGEENAN-INDUCED PEDAL EDEMA.

ANTIINFLAMMATORY ACTIVITY * CHCL3 EXT * RAT * INTRAGASTRIC * DOSE NOT STATED * INACTIVE * M27076 *

BIOLOGICAL ACTIVITIES FOR EXTRACTS OF UNCARIA TOMENTOSA

UNCARIA TOMENTOSA (RUBIACEAE) DRIED ROOTBARK

ANTIINFLAMMATORY ACTIVITY * MEOH EXT * RAT * INTRAGASTRIC * DOSE NOT STATED * INACTIVE * M27076 *

UNCARIA TOMENTOSA (RUBIACEAE) COMMERCIAL SAMPLE OF TWIG SOUTH KOREA

COGNITIVE ENHANCEMENT EFFECT * MEOH EXT * RAT * MALE * INTRAGASTRIC * DOSE 100.0 MG/KG * ACTIVE * L26051 * VS.ISCHEMIA-INDUCED DAMAGE.

NEUROPROTECTANT EFFECT * MEOH EXT * RAT * MALE * INTRAGASTRIC * CONC USED 100.0 MG/KG * ACTIVE * CELLS-HIPPOCAMPAL NEURON * L26051 * VS.ISCHEMIA-INDUCED DAMAGE.

UNCARIA TOMENTOSA (RUBIACEAE) DRIED VINE PERU

DNA REPAIR INDUCTION * H2O EXT * HUMAN ADULT * GIVEN TO BOTH SEXES * ORAL * DOSE 350.0 MG/DAY * ACTIVE * E00670 * THE UNCARIA TOMENTOSA WATER EXTRACTS (C-MED-100) HAVE BEEN SHOWN TO ENHANCE DNA REPAIR, MITOGENIC RESPONSE AND LEUKOCYTE RECOVERY AFTER CHEMOTHERAPY-INDUCED DNA DAMAGE IN VIVO. IN THIS STUDY, THE EFFECT OF C-MED-100 SUPPLEMENT WAS EVALUATED IN A HUMAN VOLUNTEER STUDY. TWELVE APPARENTLY HEALTHY ADULTS WORKING IN THE SAME ENVIRONMENT WERE RANDOMLY ASSIGNED INTO 3 GROUPS WITH AGE AND GENDER MATCHED. ONE GROUP WAS DAILY SUPPLEMENTED WITH A 250 MG TABLET CONTAINING AN AQUEOUS EXTRACT OF C-MED-100, AND ANOTHER GROUP WITH A 350MG TABLET, FOR 8 CONSECUTIVE WEEKS. DNA REPAIR AFTER INDUCTION OF DNA DAMAGE BY A STANDARD DOSE OF HYDROGEN PEROXIDE WAS MEASURED 3 TIMES BEFORE SUPPLEMENT AND 3 TIMES AFTER THE SUPPLEMENT FOR THE LAST 3 WEEKS OF THE 8 WEEK-SUPPLEMENT PERIOD. THERE WERE NO DRUG-RELATED TOXIC RESPONSES TO C-MED-100 SUPPLEMENT WHEN JUDGED IN TERMS OF CLINICAL SYMPTOMS, SERUM CLINICAL CHEMISTRY, WHOLE BLOOD ANALYSIS AND LEUKOCYTE DIFFERENTIAL COUNTS. THERE WAS A STATISTICALLY SIGNIFICANT DECREASE OF DNA DAMAGE AND A CONCOMITANT INCREASE OF DNA REPAIR IN THE SUPPLEMENT GROUPS (250 AND 350 MG/DAY) WHEN COMPARED WITH NON-SUPPLEMENTED CONTROLS (P<0.05). THERE WAS ALSO AN INCREASED TENDENCY OF PHA INDUCED LYMPHOCYTE PROLIFERATION IN THE TREATMENT GROUPS.

A COMMERCIAL PRODUCT, C-MED-100, WAS USED.

BIOLOGICAL ACTIVITIES FOR EXTRACTS OF UNCARIA TOMENTOSA

UNCARIA TOMENTOSA (RUBIACEAE) DRIED VINE PERU

DNA REPAIR INDUCTION * H2O EXT * HUMAN ADULT * GIVEN TO BOTH SEXES * ORAL * CD90 50.0 MG/DAY * ACTIVE * E00670 * THE UNCARIA TOMENTOSA WATER EXTRACTS (C-MED-100) HAVE BEEN SHOWN TO ENHANCE DNA REPAIR, MITOGENIC RESPONSE AND LEUKOCYTE RECOVERY AFTER CHEMOTHERAPY-INDUCED DNA DAMAGE IN VIVO. IN THIS STUDY, THE EFFECT OF C-MED-100 SUPPLEMENT WAS EVALUATED IN A HUMAN VOLUNTEER STUDY. TWELVE APPARENTLY HEALTHY ADULTS WORKING IN THE SAME ENVIRONMENT WERE RANDOMLY ASSIGNED INTO 3 GROUPS WITH AGE AND GENDER MATCHED. ONE GROUP WAS DAILY SUPPLEMENTED WITH A 250 MG TABLET CONTAINING AN AQUEOUS EXTRACT OF UNCARIA TOMENTOSA OF C-MED-100, AND ANOTHER GROUP WITH A 350 MG TABLET, FOR 8 CONSECUTIVE WEEKS. DNA REPAIR AFTER INDUCTION OF DNA DAMAGE BY A STANDARD DOSE OF HYDROGEN PEROXIDE WAS MEASURED 3 TIMES BEFORE SUPPLEMENT AND 3 TIMES AFTER THE SUPPLEMENT FOR THE LAST 3 WEEKS OF THE 8 WEEK-SUPPLEMENT PERIOD. THERE WERE NO DRUG-RELATED TOXIC RESPONSES TO C-MED-100 SUPPLEMENT WHEN JUDGED IN TERMS OF CLINICAL SYMPTOMS, SERUM CLINICAL CHEMISTRY, WHOLE BLOOD ANALYSIS AND LEUKOCYTE DIFFERENTIAL COUNTS. THERE WAS A STATISTICALLY SIGNIFICANT DECREASE OF DNA DAMAGE AND A CONCOMITANT INCREASE OF DNA REPAIR IN THE SUPPLEMENT GROUPS (250 AND 350MG/DAY) WHEN COMPARED WITH NON-SUPPLEMENTED CONTROLS(P<0.05). THERE WAS ALSO AN INCREASED TENDENCY OF PHA INDUCED LYMPHOCYTE PROLIFERATION IN THE TREATMENT GROUPS.

A COMMERCIAL PRODUCT, C-MED-100, WAS USED.

TOXIC EFFECT(GENERAL) * H2O EXT * HUMAN ADULT * GIVEN TO BOTH SEXES * ORAL * DOSE 350.0 MG/DAY * INACTIVE * E00670 *

IMMUNOSTIMULANT ACTIVITY * H2O EXT * HUMAN ADULT * MALE * ORAL * DOSE 700.0 MG/DAY * ACTIVE * E00671 * A HUMAN INTERVENTION STUDY WAS CARRIED OUT USING MALE VOLUNTEERS ATTENDING A GENERAL PRACTICE CLINIC IN NEW YORK CITY INVOLVING COMPARISON OF INDIVIDUALS SUPPLEMENTED WITH 350MG X 2 C-MED-100 DAILY DOSE FOR TWO MONTHS WITH UNTREATED CONTROLS FOR THEIR ABILITIES TO RESPOND TO A 23 VALENT PNEUMOCOCCAL VACCINE. C-MED-100 IS A NOVEL NUTRACEUTICAL EXTRACT FROM THE SOUTH AMERICAN PLANT UNCARIA TOMENTOSA OR CAT'S CLAW WHICH IS KNOWN TO POSSESS IMMUNE ENHANCING AND ANTIINFLAMMATORY PROPERTIES IN ANIMALS. THERE WERE NO TOXIC SIDE EFFECTS OBSERVED AS JUDGED BY MEDICAL EXAMINATION, CLINICAL CHEMISTRY AND BLOOD CELL ANALYSIS. HOWEVER, STATISTICALLY SIGNIFICANT IMMUNE ENHANCEMENT FOR THE INDIVIDUALS ON C-MED-100 SUPPLEMENT WAS OBSERVED BY (I) AN ELEVATION IN THE LYMPHOCYTE/NEUTROPHIL RATIOS OF PERIPHERAL BLOOD AND (II) A REDUCED DECAY IN THE 12 SEROTYPE ANTIBODY TITER RESPONSES TO PNEUMOCOCCAL VACCINATION AT 5 MONTHS.

BIOLOGICAL ACTIVITIES FOR EXTRACTS OF UNCARIA TOMENTOSA

UNCARIA TOMENTOSA (RUBIACEAE) DRIED VINE PERU

TOXIC EFFECT(GENERAL) * H2O EXT * HUMAN ADULT * MALE * ORAL * DOSE 700.0 MG/DAY * INACTIVE * E00671 * A HUMAN INTERVENTION STUDY WAS CARRIED OUT USING MALE VOLUNTEERS ATTENDING A GENERAL PRACTICE CLINIC IN NEW YORK CITY INVOLVING COMPARISON OF INDIVIDUALS SUPPLEMENTED WITH 350MG X 2 C-MED-100 DAILY DOSE FOR TWO MONTHS WITH UNTREATED CONTROLS FOR THEIR ABILITIES TO RESPOND TO A 23 VALENT PNEUMOCOCCAL VACCINE. C-MED-100 IS A NOVEL NUTRACEUTICAL EXTRACT FROM THE SOUTH AMERICAN PLANT UNCARIA TOMENTOSA OR CAT'S CLAW WHICH IS KNOWN TO POSSESS IMMUNE ENHANCING AND ANTIINFLAMMATORY PROPERTIES IN ANIMALS. THERE WERE NO TOXIC SIDE EFFECTS OBSERVED AS JUDGED BY MEDICAL EXAMINATION, CLINICAL CHEMISTRY AND BLOOD CELL ANALYSIS. HOWEVER, STATISTICALLY SIGNIFICANT IMMUNE ENHANCEMENT FOR THE INDIVIDUALS ON C-MED-100 SUPPLEMENT WAS OBSERVED BY (I) AN ELEVATION IN THE LYMPHOCYTE/NEUTROPHIL RATIOS OF PERIPHERAL BLOOD AND (II) A REDUCED DECAY IN THE 12 SEROTYPE ANTIBODY TITER RESPONSES TO PNEUMOCOCCAL VACCINATION AT 5 MONTHS.

DNA REPAIR INDUCTION * H2O EXT * HUMAN ADULT * GIVEN TO BOTH SEXES * ORAL * DOSE VAR ACTIVE * DNA * E01183 * THE UNCARIA TOMENTOSA WATER EXTRACTS (C-MED-100) HAVE BEEN SHOWN TO ENHANCE DNA REPAIR, MITOGENIC RESPONSE AND LEUKOCYTE RECOVERY AFTER CHEMOTHERAPY-INDUCED DNA DAMAGE IN VIVO. TWELVE APPARANTLY HEALTHY ADULTS WORKING IN THE SAME ENVIRONMENT WERE RANDOMLY ASSIGNED INTO 3 GROUPS WITH AGE AND GENDER MATCHED. ONE GROUP WAS DAILY SUPPLEMENTED WITH A 250 MG TABLET CONTAINING AN AQUEOUS EXTRACT OF UNCARIA TOMENTOSA OF C-MED-100, AND ANOTHER GROUP WITH A 350 MG TABLET, FOR 8 CONSECUTIVE WEEKS. DNA REPAIR AFTER INDUCTION OF DNA DAMAGE BY A STANDARD DOSE OF HYDROGEN PEROXIDE WAS MEASURED 3 TIMES BEFORE SUPPLEMENT AND 3 TIMES AFTER THE SUPPLEMENT FOR THE LAST 3 WEEKS OF THE 8 WEEK-SUPPLEMENT PERIOD. THERE WERE NO DRUG-RELATED TOXIC RESPONSE TO C-MED-100 SUPPLEMENT WHEN JUDGED IN TERMS OF CLINICAL SYMPTOMS, SERUM CLINICAL CHEMISTRY, WHOLE BLOOD ANALYSIS AND LEUKOCYTE DIFFERENTIAL COUNTS. THERE WAS A STATISTICALLY SIGNIFICANT DECREASE OF DNA DAMAGE AND A CONCOMITANT INCREASE OF DNA REPAIR IN THE SUPPLEMENT GROUPS (250 AND 350 MG/DAY) WHEN COMPARED WITH NON-SUPPLEMENTED CONTROLS ($P < 0.05$). THERE WAS ALSO AN INCREASED TENDENCY OF PHA INDUCED LYMPHOCYTE PROLIFERATION IN THE TREATMENT GROUPS.

BIOLOGICAL ACTIVITIES FOR EXTRACTS OF UNCARIA TOMENTOSA

UNCARIA TOMENTOSA (RUBIACEAE) DRIED VINE PERU

DNA FRAGMENTATION INHIBITION * H2O EXT * HUMAN ADULT * GIVEN TO BOTH SEXES * ORAL * DOSE VAR ACTIVE * DNA * E01183 * THE UNCARIA TOMENTOSA WATER EXTRACTS (C-MED-100) HAVE BEEN SHOWN TO ENHANCE DNA REPAIR, MITOGENIC RESPONSE AND LEUKOCYTE RECOVERY AFTER CHEMOTHERAPY-INDUCED DNA DAMAGE IN VIVO. TWELVE APPARENTLY HEALTHY ADULTS WORKING IN THE SAME ENVIRONMENT WERE RANDOMLY ASSIGNED INTO 3 GROUPS WITH AGE AND GENDER MATCHED. ONE GROUP WAS DAILY SUPPLEMENTED WITH A 250 MG TABLET CONTAINING AN AQUEOUS EXTRACT OF UNCARIA TOMENTOSA OF C-MED-100, AND ANOTHER GROUP WITH A 350 MG TABLET, FOR 8 CONSECUTIVE WEEKS. DNA REPAIR AFTER INDUCTION OF DNA DAMAGE BY A STANDARD DOSE OF HYDROGEN PEROXIDE WAS MEASURED 3 TIMES BEFORE SUPPLEMENT AND 3 TIMES AFTER THE SUPPLEMENT FOR THE LAST 3 WEEKS OF THE 8 WEEK-SUPPLEMENT PERIOD. THERE WERE NO DRUG-RELATED TOXIC RESPONSE TO C-MED-100 SUPPLEMENT WHEN JUDGED IN TERMS OF CLINICAL SYMPTOMS, SERUM CLINICAL CHEMISTRY, WHOLE BLOOD ANALYSIS AND LEUKOCYTE DIFFERENTIAL COUNTS. THERE WAS A STATISTICALLY SIGNIFICANT DECREASE OF DNA DAMAGE AND A CONCOMITANT INCREASE OF DNA REPAIR IN THE SUPPLEMENT GROUPS (250 AND 350 MG/DAY) WHEN COMPARED WITH NON-SUPPLEMENTED CONTROLS (P < 0.05). THERE WAS ALSO AN INCREASED TENDENCY OF PHA INDUCED LYMPHOCYTE PROLIFERATION IN THE TREATMENT GROUPS.

ANTIINFLAMMATORY ACTIVITY * TYPE EXT NOT STATED * HUMAN ADULT * ROUTE NOT GIVEN * DOSE NOT STATED * ACTIVE * E01333 * IN FORTY PATIENTS.

DATA INCOMPLETE - DERIVED FROM AN ABSTRACT.

DNA REPAIR INDUCTION * H2O EXT * RAT * FEMALE * INTRAGASTRIC * DOSE VAR ACTIVE * L06405 * REPAIR OF DNA SINGLE STRAND BREAKS(SSB) AND DOUBLE STRAND BREAKS(DSB) WERE SIGNIFICANTLY IMPROVED(P<0.05).

A COMMERCIAL PRODUCT, C-MED-100, WAS USED.

IMMUNOMODULATOR ACTIVITY * H2O EXT * RAT * FEMALE * INTRAGASTRIC * DOSE VAR ACTIVE * L06405 * UNCARIA TOMENTOSA STIMULATED LYMPHOCYTE PROLIFERATION. WHITE BLOOD CELLS WERE ELEVATED COMPARED WITH CONTROLS (P<0.05).

A COMMERCIAL PRODUCT, C-MED-100, WAS USED.

IMMUNOMODULATOR ACTIVITY * H2O EXT * HUMAN ADULT * MALE * ORAL * DOSE 5.0 MG/KG * ACTIVE * L06405 * IN A HUMAN VOLUNTEER STUDY, C-MED-100 WAS GIVEN TO 4 MALES. NO TOXICITY WAS OBSERVED AND WBC WERE SIGNIFICANTLY ELEVATED (P<0.05) AFTER SUPPLEMENT.

A COMMERCIAL PRODUCT, C-MED-100, WAS USED.

UNCARIA TOMENTOSA BROWN VARIETY (RUBIACEAE) DRIED ROOT PERU

PHAGOCYTOSIS STIMULATION * ALKALOID FRACT * MOUSE * IP * DOSE 10.0 MG/KG * ACTIVE * M12822 *

VS.CLEARANCE OF COLLOIDAL CARBON.

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