

CURRICULUM VITAE

NAME: Charles Karimi Maitai
NATIONALITY: Kenyan
MARITAL STATUS: Married
DATE OF BIRTH: 1943
QUALIFICATIONS: B. Pharm, M. Pharm (Otago, NZ) PhD (Nairobi)
Registered Pharmacist

EMPLOYMENT:

1970 -1974` Lecturer Pharmacology, Toxicology
1975 – 1978 Senior Lecturer/Chairman, Department of Pharmacy,
Faculty of Medicine, University of Nairobi.
1979 1983 Associate Professor/Chairman
1983 –To date Professor of Pharmacology
1984 – 1988 Associate Dean, (Pharmacy) Faculty of Pharmacy

INTERNATIONAL RECOGNITION

- Consultant, United Nations Narcotic Laboratory, Geneva 1979.
- Member of OAU/STRC Committee on African Pharmacopoeia 1980.
- Who is Who in the World 5th Ed 1982 P 605.
- Men of Achievement 9th Ed 1982 P464.
- External Examiner, Pharmacology for several Universities in Africa (Uganda, Tanzania, Ethiopia).
- External Assessor for Professorial appointments in several African Universities (Uganda, Tanzania, Nigeria and Kenyan Universities).
- Fulbright Senior Scholar, University of Minnesota, 1979.
- World Health Consultant (Several Projects)
- GTZ Consultant.

NON-ACADEMIC POSITIONS IN KENYA

- 2008 TO DATE – Member, Pest Control Products Board (PCPB).
- 2008 to date - Chairman, Technical Committee (PCPB).
- Chairman, Drug Registration Committee, Ministry of Health, Kenya 1980 – 1986) and 2004 – 2009.
- Past Member, Medical Research and Ethical Committee, Ministry of Health Kenya 1978.
- Chairman/Member National Council of Science and Technology, Specialist Committee on Medical Research 1980 – 1986.
- Member, Staff Disciplinary Committee – Kenyatta National Hospital (1980 – 1984).
Member, Ministerial Tender Board, Technical Evaluation Committee on Drugs (1982 – 1986).

INTERNATIONAL CONFERENCES AND SYMPOSIA

Attended several International Conferences in several countries (Britain, France, Malagasy, Zimbabwe, Somalia, Tanzania etc) and made presentations.

POSTGRADUATES SUPERVISION

16 Masters and 8 PhD Theses in field of Pharmacology and Toxicology.

PUBLICATIONS:

1. **Mitai C.K., Njoroge D.K, Munenge R.W.**
Interaction between nifedipine and digoxin in rats. *East Afr Med J.* 1995 Jan;72 (1): 75-6.
2. **Muriru J.W., Kibwage I.O., Mitai C.K., Hoogmartens J.**
Evaluation of tetracycline raw materials and finished products found on the Kenyan market. *J Pharm Biomed Anal.* 1994 Dec; 12(12)1483-8.
3. **Kibwage I.O., Ogeto J.O., Mitai C.K., Rutere., Thurania J., Ochieng' A.**
Drug quality control work in DARU: observations during 1983-1986. *East Afr Med J.* 1992 Oct; 69 (10): 577-80.
4. **Kanja L.W., Skaare J.U., Ojwang S.B., Mitai C.K.**
A comparison of organochlorine pesticide residues in maternal adipose tissue, maternal blood, cord blood and human milk from mother/infant pairs. *Arch Environ Contam Toxicol.* 1992 Jan; 22 (1); 21-4.
5. **Mitai C.K., Dhadphale M.**
Khat-induced paranoid psychosis. *Br J Psychiatry.* 1988 Feb: 152:294.
6. **Mitai C.K.**
A review of dietary supplementation with trace minerals. *East Afr Med J.* 1988 Jan; 65 (1): 48-50.

7. **Kahunyo J.M., Froslic A, Maitai C.K.**
Organochlorine pesticide residues in chicken eggs: a survey J. Toxicol Environ Health. 1988; 24(4): 543-50.
8. **Kahunyo J.M., Maitai C.K., Froslic A.**
Organochlorine pesticide residues in chicken fat: a survey. Poult Sci. 1986 Jun; 65(6): 1084-9.
9. **Kanja L., Skare J.U., Nafstad I., Maitai C.K., Lokken P.**
Organochlorine pesticides in human milk from different areas of Kenya 1983-1985. J Toxicol Environ Health R.W., Ochieng A., G. 1986; 19(4):449-64.
10. **Maitai C.K. Njoroge D.K., Munenge R.W.**
A Comparative study of two antispasmodic products: Buscopan and NO-Spa. East Afr Med J. 1985 Jul: 62(7): 480-5.
11. **Maitai C.K.**
The craze for additional vitamin intake. East Afr Med J. 1984 Sep; 61(9):661-2.
12. **Maitai C.K., Ogeto J.O., Munenge R.W., Ochieng S., Juma F.D.**
A comparative study of the efficacy of seven brands of frusemide tablets. East Afr Med J. 1984 Jan; 61(1):6-10.
13. **Guantai A.N., Maitai C.K.**
Metabolism of cathinone to d- norpseudoephedrine in humans. J. Pharm Sci. 1983 Oct; 72(10): 1217-8.
14. **Ogeto J.O., Maitai C.K.**
The scientific basis for use of *Strychnos henningsii* (Gilg) plant material to stimulate appetite. East Afr Med J. 1983 Sep; 60(9):603-7. No abstract available.
15. **Maitai C.K.**
The need for a poison information centre in Kenya. East Afr Med J. 1983 Sep; 60(9): 597-8.
16. **Ogeto J., Maitai C.K., Wangia C., Mkoji M.L., Wakori E., Rutere G.K., Mithamo R.W., Ochieng A., Githiga I.M.**
Practical therapeutical drug quality control in Kenya-further observations. East Afr Med J. 1983 Jun;60(6): 438-43
17. **Maitai C.K.**
Bioavailability of drugs. East Afr Med J. 1982 Aug; 59(8):503-4.
18. **Maitai C.K., Tsekpo W.M., Wakori E., Wangia C., Mkoji L., Githiga I.M**
Drug quality control in Kenya –preliminary observations. East Afr Med J. 1982 Jun; 59(6):399-403
19. **Guantai A.N., Maitai C.K.**
Relative distribution of cathinone and D-norpseudoephedrine in *Catha edulis* (Miraa) growing in Kenya. East Afr Med J. 1982 Jun; 59(6): 394-8.

- 20. Maitai C.K., Guantai A., Mwangi J.M.**
Self medication in management of minor health problems in Kenya. East Afr Med J. 1981 Aug; 58(8):593-600.
- 21. Watkins W.M., Maitai C.K.**
A drug utilisation survey of dosage forms dispensed at Kenyatta National Hospital Nairobi. East Afr Med J. 1981 Apr; 58 (4) 284-7.
- 22. Maitai C.K.**
Effect of cathinone on chick embryo heart. J. Pharm Pharmacol. 1981 Mar; 33(3) 195.
- 23. Maitai C.K., Talalaj S., Talalaj D., Njoroge D.**
Smooth muscle stimulating substances in the stinging nettle tree *Obetia pinnatifida*. Toxicon. 1981; 19(1): 186-8.
- 24. Peterson D.W., Maitai C.K., Sparber S.B.**
Relative potencies of two phenylalkylamines found in the abused plant *Catha edulis*, khat. Life Sci. 1980 Dec 1; 27(22):2143-7.
- 25. Maitai C.K., Watkins W.M.**
A survey of outpatient prescriptions dispensed in Kenyatta National Hospital. East Afr Med J. 1980 Dec 1; 27 (22):2143-7.
- 26. Maitai C.K., Talalaj S., Njoroge D., Wamugunda R.**
Effect of extract of hairs from the herb *Urtica massaica*, on smooth muscle. Toxicon. 1980; 18(2):225-9.
- 27. Maitai C.K.**
The toxicity of the plant *Catha edulis* in rats. Toxicon. 1977; 15(4):363-6.
- 28. Maitai C.K.** D-norpseudoephedrine as an anti-asthmatic: comparison with L-ephedrine, d-pseudoephedrine. East Afr Med J. 1975 Jun; 52(6)330-2.
- 29. Maitai C.K, Mugeru G.M.**
Excretion of the active principle of *Catha edulis* (Miraa) in human urine. J Pharm Sci. 1975 Apr; 64(4): 702-3.
- 30. Maitai C.K., Kamau J.A., Gacuhi D.M., Njoroge S.**
An outbreak of arsenic and toxaphene poisoning in Kenyan cattle. Vet Rec. 1975 Feb 15; 96(7):151-2.
- 31. Maitai C.K., Gondwe A.T., Kamau J.A.**
Toxicity of *Adenia volkensii* (Kiliambiti). Bull Epizoot Dis Afr. 1974 Jun; 22(2): 157 – 60.
- 32. Maitai C.K.**
An investigation of a Masai medicinal herb *Sumeita* (*Momordica pretocarpa* Hoechst). bull Epizoot Dis Afr. 1974 Jun; 22(2): 152-5.
- 33. Maitai C.K., Muraguri N., Patel H.A.**
A survey on the use of poisoned arrows in Kenya during the period 1964-1971. East Afr Med j. 1973 Feb; 50(2):100-4.
- 34. C.K. Maitai and N.N. Mungai**
Human poisoning with plants in Kenya. East Cent. Afri J. Pharm . Sci. 8(1) 10-13, 2005.

35. **C.K. Maitai, D.K. Njoroge, K.O. Abuga, A.M. Mwaura, R.W. Munenge.**
Investigation of Possible Antidotal Effects of Activated Charcoal, Sodium Bicarbonate, Hydrogen peroxide and Potassium Permanganate in Zinc Phosphide Poisoning. *East Cent. Afri. J. Pharm. Sci.* 5(2) 38-41, 2002.
36. **F.A. Okalebo, H.A. Rabah, A.N. Guantai, C.K. Maitai, I.O. Kibwage, J.W. Mwangi, W. Masengo.**
The Antimalarial and Antimicrobial Activity and Brine Shrimp Toxicity of Clematis Brachiata Extracts. *Est Cent. Afri. J. Pharm. Sci.* 5(1) 18-18, 2002.
37. **Maitai C.K.**
The arrow poisons. A book of 98 pages, Published by E.A. Literature Bureau 1973.
38. **Kamau J.A., Maitai C.K.**
The toxicity of Mount Elgon Ragwort (*Senecio moorei*). Preliminary identification of active principle. *Bull Epiz. Diseases of Africa* 23 (1), 109-112 1975.
39. **Maitai C.K. Talalaj S.**
Thymus vulgaris cultivated in Kenya. *Kenya J. Sci and Tech* 2(1) 35-37, 1981.
40. **Maitai C.K. and Talalaj S.**
Local plants with known medicinal value proceedings of First Ann. Med. Scientific Conference, Kenya Medical Research Institute (KEMRI) 1080, P 122 – 128, Kenya Literature Bureau.
41. **Maitai C.K. and Talalaj S.**
Purgative Drugs in Primary Health Care. *Kenya J. Pharm.* P7-8, 1980.
42. **Talalaj S. and Maitai C.K.**
Ocimum kilimandscharicum - A potential source of camphor in Kenya. *Kenya Sci. and Tech.* 2(a) 137 -138, 1981.
43. **Talalaj S. and C.K. Maitai**
Some Aromatic plants of Kenya of proven medicinal value. *Proc. 2nd Ann. Conf. KEMRI,* 1981.P. 219
44. **Mwangi J.W., Talalaj S and Maitai C.K.**
Essential Oil from *Eucalyptus citriodora*. *Kenya j. Sci and Tech* 3(A) 55-56, 1982.
45. **Maitai C.K.**
Pharmacy – A profession with a crisis of identity. *Kenya. Pharm J.,* P24, 1978
46. **Maitai C.K.**
Training of Pharmacists, University of Nairobi Kenya *J. Pharm.* P19, 1978.
47. **Maitai C.K.**
Utilization of Drugs in Kenya in the 1980s, *Kenya J. Pharm.* P21-22, 1982.
48. **Maradufu A. and Maitai C.K.**
Ferula communis – a potential rodenticide. *Current Medical Research in East Africa Proc.* 3rd Ann. Sci. conference, P251, 1982 Ed. P.M. Tukei and A.R. Njogu.

- 49. Maitai C.K., Talalaj S.**
Aromatic Plants of East Africa. (A manual script – Approx 200 pages). Kenya National Sci & Tech. Council.
- 50. Maitai C.K., Ogeto J. and Juma F.**
A comparative study of 7 brands of Frusemide Product. E.A. Med. J. vol 61, 1984.
- 51. Maitai C.K.**
The health and Socioeconomic aspects of Khat use. Precedings of symposium on *Catha edulis*. Published by Internal Council on Alcohol and Addiction P.87-90, 1983.
- 52. Maitai C.K.**
Catha edulis. Epiemiological studies on chewing patterns and habits P178 – 180. International Council in Alcohol and Addition, Lausanne, Switzerland 1983.
- 53. Maitai C.K.**
Tropical Medicinal and Aromatic Plants of Kenya P. 63 – 69. Proceedings of a symposium convened by commonwealth Science Council, Harare, Zimbabwe, June 3-5, 1985.
- 54. Maitai C.K. and Munenge R.W**
New use of Indomethacin
East Cent. Afr J Pham Sci 14(1)2011,13-15
- 55. Maitai C.K.**
The dynamic interplay between Man, Health and Medicine – A historical perspective, 36 pages. Inaugural lecture July 18, 1996, University of Nairobi, Kenya.
- 56. Maitai C.K., Nyangeri J.B.**
Catha edulis – A detailed Review focusing on Chemistry, Health Implications, Economic, Legal, Social, Cultural, Religions and Moal aspects (58 pages). National Council for Science and Technology DOC. NCST. No. 40. June 1996.
- 57. Maitai C.K., A.T. Gondwe et Kamau, J.A.**
Toxicite D' *Adenia Vollensii* (Kiliambiti). Identification et evaluation du principe toxique. Bulletin Des Epizooties in Afrique vol XX!!(2) 165 -168, 1974.
- 58. Maitai C.K.**
New antimalarial Drugs – current Status and Future challenges from a Regulatory perspective 23 pages. World Health Organization Document (Restricted) WHO, Geneva. 2003.
- 59. Kimani S, Moterroso V, Morales P, Wagner J, Kipruto S, Bukachi F, Maitai C, Tshala-Katumbay D,** Crosss-species and tissue variations in cyanide detoxification rates in rodents and non-human primates on protein-restricted diet. Food Chem Toxicol. 2014;66: 203-9.
- 60. Kimani S, Sinei K, Bukachi F, Tshala-Katumbay D, Maitai C.** Memory deficits associated with sublethal cyanide poisoning relative to cyanate toxicity in rodents. Metabolic Brain Disease. 2014; 29: 105-112.

61. Samuel Kimani, Victor Moterroso, Mike Lasarev, Sinei Kipruto, Fred Bukachi, **Charles Maitai**, Larry David and Desire Tshala-Katumbay. Carbamoylation correlates of cyanate neuropathy and cyanide poisoning: relevance to the biomarkers of cassava cyanogenesis and motor system toxicity. SpringerPlus, 2013; 2:647, doi:10.1186/2193-1801-2-647.
62. **Maitai C.K. and Kokonya D.M.**
A brief Review of probiotic use East and Cent. Afr J. pharmSci (11) 2008, 82-84
63. C.K. Maitai, I.O. Kibwage, A.N. Guantai, J.N. Ombega and F.A. Ndemo. A retrospective study of childhood poisoning in Kenya. East Cent Afr. J. Pharm Sci 2(3) 63-71 1998
64. N.G. Nyamu, C.K. Maitai. Trends off acute poisoning cases occurring in Kenyatta National Hospital, Nairobi, Kenya. East Cent Afr. J. Pharm Sci. 2012 15 (2) 29-34.
65. I.O. Kibwage, C.K. Maitai and I.G. Mureithi. Alcohol content of traditional brews and Miti ni dawa ni Kenya. East Cent Afr J Pharm Sci 1(3) 54-57
66. Maitai C.K Plant poisoning in childhood Medicus 1 10-11 1983
67. Maitai C.K The Health and socioeconomic aspects of khat use. Proceeding of symposium on Catha edulis Published by International Council of Alcohol and Addiction P.87-90, 1988

Editorial articles in *Journal East Centr.Afr. J Pharm Sci.* <http://www.ajol.info> and the journals website at <http://www.uonbi.ac.ke/projects/ecajournal/>

68. **C K Maitai** Tropical parasitic diseases 13(3) 2010 ,68-69
69. **C K Maitai** Sexuality and contraceptive use 13 (2) 2010 33-34
70. **C K Maitai** Cosmetics –Quality and safety 13(1) 2010 1-2
71. **C K Maitai** Destruction of Aflatoxins 12(3) 2009, 46
72. **C K Maitai** Advancing the frontiers of Pharmacy profession to new horizons 12(2)2009 26-27.
73. **C K Maitai** Chemical residues in food of animal origin 12 (1) 2009 1-2
74. **C K Maitai** Probiotics for good health and longevity 11(3) 2008 55-56
75. **C K Maitai** Public concerns regarding efficacy and safety of medicines 11(2)2008 31-32
76. **C K Maitai** Dissemination of drug information to patients through drug product leaflets 11(1)2008 1-2
77. **C K Maitai** Medicinal properties of Neem tree (*Azadirachta indica*) 10 (3)2007 ,55

78. C K Maitai Neurotoxins from Conus musicus(family Conidae)10(2)2007 27
79. C K Maitai Novel drug delivery systems 10(1)20071-2
80. C K Maitai Bacterial sensitivity to antibiotics 9(3)2006 60-61
81. C K Maitai In vitro models for drug evaluation 9(2)2006 29-30
82. CK Maitai Social drugs –An overview 9(1)2006 1-2.
83. C K Maitai Biomedical research involving human subjects 8(3)2005 43-44.
84. C K Maitai Herbal medicine 8(2)2005 20-21
85. C K Maitai Circumventing the time warp in health professions 8(1)1-2
86. C K Maitai Non compliance The patient perspective 7(3)2004 46.
87. C K Maitai Drugs and antisocial behaviour 6(1) 2003 1-2
88. C K Maitai Bacterial resistance 5 (3)2002 ,43
89. CK Maitai Poisons and antidotes 5(2)2002,23
- 90 C K Maitai Self medication5(1),2002,1-2
- 91 C K Maitai Taming the HIV/AIDS pandemic4(3) 2001 48-49
92. C K Maitai Practitioners from the school of life 4(2) 2001 ,29
93. C K Maitai False positive false negative in diagnostic tests 4(1) 2001 ,1
- 94.C K Maitai In search of professional role models 3(3)2000 ,51.
95. C K Maitai Use of posters to communicate drug related messages3(2) 2000,25
96. C K Maitai Pharmacotherapeutic based decisions 3(1)2000,1
97. C K Maitai Introspection on HIV/AIDS debate 2(3)1999,,50

98. C K Maitai Use of traditional medicines 2(1)1999 ,1
99. C K Maitai A symbiotic interaction between pharmacology and nutrition 1(3)1998 ,46.
100. C K Maitai Drug abuse 1(2) 1998,27.
101. C K Maitai Rational use of drugs (RUD)1(1)1998 ,1
102. C K Maitai management of infectious diseases in closed and semi closed communities. 14(1)2011 1-2
103. C K Maitai Aetiology of cancer 14(2)2011 32-33
- 104 E.W. Karumi, C.K. Maitai, F.A. Okalebo, N.N. Mungai, S.N. Ndwigah, P.C. Mutai and N.A. Mukungu. Anthelmintic and Antibacterial activity of *Hagenia abyssinica* (Bruce) F.F. Gmel (Rosaceae).
105. C.K. Maitai – A cascade of biochemical and physiological markers in pathological disorders vol 15(1) p 1-2.
106. C.K. Maitai – Poisoning pattern vol 15 (2) P 27-28.
107. C.K. Maitai- Propolis a nature cure vol 15 (3) P 55-56.
108. C.K. Maitai – Adverse drug reaction.
109. C.K. Maitai – Public perception of health profession vol 16 (2) _ 31-32.
110. C.K. Maitai – The contentions interface between modern and traditional medicine practice vol 16 93) P 59-60.