



MINISTRY OF HEALTH

OPERATIONAL GUIDELINES FOR INTEGRATING
HERBAL MEDICINE
PRACTICE INTO HEALTH CARE INSTITUTIONS



.....INTRODUCTION

The Ministry of Health, for over three decades, has been debating and experimenting with the introduction of herbal medical practice into public health institution in Ghana. Recent public pronouncement in January 2011 formally launched the integration of herbal medical practice as a service option in public hospitals especially and in health facilities in general. The overall aim of the policy is to come out with a well-defined herbal medicine service delivery system and industry that is self-motivated for excellence and responds positively to the health needs of the population with unique products, services and approaches that are accessible, safe, efficacious, affordable and compatible with the modern science, technology and healthcare practices.

To implement this policy, a health cadre called the Medical Herbalist have been trained and graduated by the Kwame Nkrumah University of Science and Technology from a four-year BSc. Herbal Medicine Degree. The graduates subsequently undertake practical training in herbal clinical science and practice and are deployed as Medical Herbalist. Medical herbalist provides health care using approved herbal medicines.

The aim of this document is to provide general guidelines for the deployment and integration of Medical Herbalist into the health system in general and to health care delivery institutions in particular.

1. Facility Recruitment Requirement

Prior to the recruitment of the Medical Herbalist into health institutions, the Medical Herbalist should present the following document to the Human Resource Directorate or the appointing institution:

- a. BSc. Herbal Medicine certificate or its equivalent
- b. National Service Certificate
- c. Assessment Report of Internship
- d. Traditional Medicine Practice Councils License of Practice
- e. PSF II employment and screening.

The recruitment of Medical Herbalist shall be done in accordance with the existing recruitment processes of public and private service providers (i.e. by appointment and posting covered by financial clearance from the Ministry of Finance and Economic Planning.

2. Facility Preparedness Requirements

Health facilities will have to prepare themselves to receive the Medical Herbalists. These preparations are to enable effective, efficient and safe deployment of this cadre of health professionals. Salaries would be established only upon assumption of duty letter is issued for the cadre by the Facility or the Regional Administration.

The requirements are as follows:

- a. Herbal Medicine units can be established in District and Regional level Hospitals as well as Private Hospitals registered by the Private Hospital and Maternity Homes Board.
- b. Medical Herbalist with at least five years continuous working experience under supervision can be recruited into facilities manned by Medical Assistants.
- c. Hospitals must have;
 - I. A physician of a grade not less than a senior medical officer or above with an orientation in Herbal Medical Practice who is available to provide 24 hr clinical supervision
 - II. Pharmacist (s) with an orientation in Herbal Medical Practice available to provide 24 hour assistance in drug dispensing.
 - III. A designated area for herbal medicine services
 - IV. Directional signs to the herbal medicine service area
 - V. Announcement on commencement can be made through local media and OPD patient education as done for other new public health programmes.

3. Management arrangements

3.1 Placement

- a. The Medical Herbalist operates under the medical department of the facility.

3.2 Supervision

- a. The Medical Herbalist shall work under the direct supervision of a physician of a grade not less than a senior medical officer with a required orientation in Herbal Medical Practice.
- b. When medical herbalist progress to higher grades (Senior, Principal, Director, Chief), they may assume supervisory roles.
- c. Practical supervision will be carried out as done for other cadre of prescribers to include regular case review case reviews and audits, real time joint consultation on cases, etc.

3.3 Monitoring

- a. Service output data from Herbal Medical Practice should be integrated and included in the facilities routine service output data as service from skilled labor in the related disease area.
- b. Indicators for reporting, performance, monitoring and accreditation are to be developed.
- c. Capacity would be built through training and consultancies within the shortest possible time to monitor rational herbal medicine use and quality assurance.

4. Patient management

4.1 Patient selection

- a. Clients/ Patients can self-select herbal medicine services or allopathic medicine services where they have been sufficiently sensitized and informed.
- b. Clients/ Patients upon first attendance can be directed to, either herbal medicine services or allopathic medicine services, at the professional discretion of the receiving nurse based on complaints or other clinical signs presented.

4.2 Diagnosis

a. Diagnosis will be made by the Medical Herbalist under the supervision of the supervising physician.

4.3 Diagnostic Investigations

a. Herbal Medical Practitioners will access the available diagnostic services at the facility as relevant for the confirmation of the diagnosis being made. Diagnostic services are to be covered by insurance as is routine for all other services.

4.4 Treatment

The Medical Herbalist is capable of treating a defined number of conditions with herbal preparations. As the practice develops the number of conditions will be increased. A yearly revised list of conditions and recommended herbal medicines shall be prepared and can be accessed from the Traditional Medicine Practice Council or the National Health Insurance Authority or The Ghana National Drug Programme (GNDP) as is routine for Essential Medicines.

- a. The Medical Herbalist can prescribe herbal treatment for conditions that are within the recommended list of conditions amenable to herbal treatment.
- b. The Medical Herbalist may prescribe only over-the-counter allopathic medicine as part of treatment when necessary and in consultation with their physician supervisor. (Refer to the FDB website for OTC drug list and GNDP website for the STG-Primary level)
- c. The Medical Herbalist can issue excuse duties with the authorization of the supervising physician.

4.5 Referrals

a. Clients/ Patients may be referred, internally, to either herbal medicine services or allopathic medicine services by the respective practitioner based on complaints and symptoms presented, for the best care to be provided.

b. All internal referrals should be accompanied by documentation which provide information on case management to date (history including medication history, investigations, working diagnosis, pre-referral procedures and treatment and reason for referral).

c. Feedback should be given following all internal referrals.

d. In a facility with a physician, the Medical Herbalist cannot make direct referrals of patients out of the facility. All external referrals will be made by the supervising physician

e. In a facility with no physician, the Medical Herbalist can make direct referrals to a higher level of care.

f. All conditions outside the approved list of disease conditions seen by the Medical Herbalist must be referred to a physician in the facility.

g. All emergency and or life-threatening presentations should be referred to the physician for management.

4.6 Quality Assurance

a. The Facility Services Delivery and Production quality assurance protocols must be applied in consultation with the Regional DDPS/DDCC and the relevant Regulatory Agencies.

b. Medical Herbalists are to keep a prescribed log book (develop log book) to capture treatment outcomes, adverse drug reactions etc.)

c. In general the quality assurance system of the employing institution must apply.

4.6.1 Continuous professional development of Medical Herbalist and other Practitioners

d. Medical Herbalist must undertake continuous professional development

e. As part of in-service training, Medical Herbalist will be part of regular hospital in-service training.

f. Herbal Medicine practice and areas of relevant specialization should be tenable post-graduate study programmes for grade progression in the health sector for eligible professionals.

4.6.2 Treatment audit

a. Treatment audits should be done in line with the case audit practices of the institutions.

4.6.3 Use of certified medication

The Chief Pharmacist is to write a short procedure on the use of medicines including documentation and management of revenue. Central and Facility procurement procedures, storage, ordering, dispensing procedures and rational use of medicines guild lines, including Documentation and Management of Revenue, should however, apply in all cases.

4.6.4 Pharmaco- vigilance

a. Treatment outcomes and adverse reactions and event related to herbal medicine use should be reported in the required format in accordance with recognized standards and practices to the National Pharmaco-vigilance Centre/ The Food and Drugs Board.

5. Medicines

a. All herbal medicines procured for use by the facility must meet minimum quality and regulatory requirements

I. Current Food and Drug Board certification of products

II. Report on procedures for batch-to-batch quality control from manufacturers

III. Current factory inspection certificate of the manufacturer

IV. Purchase should be made from only accredited manufacturers and wholesalers

V Products must be on the recommended herbal medicines list

b. Extemporaneous preparations can be prepared, in accordance with standard pharmacopoeia and given to clients by Medical Herbalist or Pharmacist in consultation with the supervising physician.

c. [All documents should be validated by and copied to the relevant regulatory body]

Appendix 1: List of Selected Hospitals for the Pilot Herbal Medicines Services; Client Services and Medico-legal Issues.

Appendix 2: Sample of Herbal Drugs, April 2012

Appendix 3: Generic Job Description and Job Specification for Medical Herbalist

Appendix 4: Matrix for the Strategy for Implementation 2011- 2014

Appendix 5: Addendum and Summary Report

Appendix 6: How to Start an Herbal Medicine Centre in your Hospital

Appendix 7: Documents Developed by Ministry of Health and Agencies on TM.

APPENDIX 1:

List of Selected Hospitals for the Herbal Medicine Services; Client Services Ad Medico-Legal Issues.

The Ministry of Health and the Ghana Health Service is piloting the use of approved herbal medicines in selected hospitals in Ghana.

Since January 2012, Herbal Medicine services have been made available in the following eighteen hospitals.

At least there is one in each Region.

Greater Accra Region

1. Lekma Hospital, Teshie
2. Police Hospital

Eastern Region

1. Esatern Regional Hospital

Volta Region

1. Ho Municipal Hospital
2. Volta Regional Hospital

Ashanti Region

1. Obuasi Municipal Hospital
2. Suntreso Government Hospital
3. Kumasi South Hospital
4. Tafo Government Hospital

Western region

1. Tarkwa Municipal Hospital

Central Region

1. Cape coast Metropolitan Hospital

Brong Ahafo Region

1. BA Regional Hospital

Northern Region

1. Tamale Central Hospital

2. Salaga Government Hospital

Upper West Region

1. Upper West Regional Hospital

Upper East Region

1. Upper East Regional Hospital

CHAG Hospitals

1. Agogo Presbyterian Hospital
2. St. Dominic Hospital
3. Fosu Government Hospital

Client Services

A client can choose to visit one of these centers all by themselves or by referral from their Physician or through the advice of the OPD receiving nurses. All complaints should be directed to the PPMED-Ghana Health Service; or the Traditional and Alternate Medicine Directorate of the Ministry of Health through the website www.tm-moh.gov.gh

Medico-legal Issues

- In case of adverse events and reports the employer and the direct offender should be held directly liable.
- Whilst clients may initiate the action of complaining, ADR reporting per se should not be held as an indictment on the practitioner/ reporting officer.

APPENDIX 2:

Sample of Herbal Drugs

SAMPLE OF HERBAL DRUGS

DISCLAIMER

This drug list initially reviewed by an MOH technical team is pasted here for educational purpose and for guidance and does not legitimize their continuing use. The official registration of each item is fully the responsibility of the proprietary owners. Their continuing use is subject to review and accreditation by the regulators based on evidence.

MOH/GHS/CHAG, OCTOBER, 2011

The Herbal Drug List (86 Recommended Proprietary Preparations with Summary of Clinical Uses and Expected Toxicological Effects)

PDT Code ANAEMIA		Name of Company &Address	Ingredients	Comments
1. A308	Afa Tonic	Afa &Rich Co. Ltd. Box 23, Gomoa-Eshiem Mob. 0244360470, 0276302811, 02486551459	<i>Khaya senegalensis</i> , <i>Monodora myristica</i> , <i>Xylopi aethiopica</i>	Iron-protien present, Antifeedant, Antisickling, Antimicrobial Toxicological profile: None available
2. A1008	Tonica	CPMR, P. O. BOX 73, Mampong-Akwapem	<i>Khaya senegalensis</i> , <i>Kigelia Africana</i> , <i>Mitragyna stipulosa</i>	Iron-protein present, Antioxidant, Antimicrobial, Antisickling Toxicology profile: No data available
3. A1208	Crown Mogya Duro	Crown Pharmacy, BOX 1582, Mamprobi-Accra Tel. 0302-306872, 0244767782	<i>Khaya spp.</i> , <i>Mondia whittei</i>	Iron-protein present, Antisickling, Antimicrobial, Vit A, D, E and K Toxicological profile: None available
4. A1808	DamfoGyae Herbal Tonic	Odoi Alex S. N BOX 1773, Sunyani. Tel. 03520-23549, 23997, 0208162155	<i>Carica papaya</i> , <i>Musa sapientum</i> , <i>Mentha infusion</i> , <i>Glycine</i> , <i>Molasses</i> , <i>Sucrose</i>	Immunostimulating, Antisickling, Anthelmintic, Antioxidant, Antimicrobial, Antifertility Toxicological profile: Excessive dose may cause irreversible uterine tocolysis
5. A1908	DMA PANC Tonic	Emmanuel Amoh Addai, Dua Ma Ayaresa Herbal Clinic. P. O. BOX MP 688, Mamprobi. Mob. 0244622897, 0277671298	<i>Zanthoxylum xanthoxyloides</i> , <i>Khaya senegalensis</i> , <i>Scorporia dulcis</i> , <i>Clausita anisata</i>	Iron-protein & Amino acid present, Antisickling, Antimicrobial, and Antidepressant. Toxicology profile: Hepatotoxicity, Avoid in pregnancy and lactation
6. A2108	Agbeve Tonic	Mohammed Agbeve P. O. BOX DK 140 Darkuman-Accra	<i>Rauwolfia vomitiria</i> , <i>Xylopi aethiopica</i> , <i>Trichilia monodelpha</i> , <i>Triplotaxis stellulifera</i> , <i>Garcina kola</i> , <i>Grosseria vignei</i> ,	Protein and minerals present, Tranquilizing, Antimicrobial. Toxicology profile: Generally circulatory and central body stimulants therefore avoid excessive dose in hypertensive.

			<i>Anthocleista nobilis, Spathoda campanulata</i>	
COUGH				
7. CH0108	Save Cough Syrup	Grace Semevor, Salvation Herbal Center, BOX GP 4872, Accra. Mob. 024-4174896	<i>Zingiber officinale, Allium sativum, Citrus aurantifolia</i>	Presence of Vit B &C, Folic acid and minerals, Anti-inflammatory, Antioxidant, Antimicrobial, Circulatory, Digestive and CNS stimulating actions. Toxicology profile: Mutagenic activity, Avoid excessive dose in pregnancy and lactation.
8. CH0609	CSRPM Cough mixture	CPMR, P. O. BOX 73, Mampong-Akwapem	<i>Cnestic ferruginea, Pochypodanthium standtii, Paullina pinnata</i>	Antimicrobial, Haemostatic, Cardio tonic, Radical scavenging Toxicology profile: Decreased locomotor activity, Clonic and Tonic convulsion
9. CH0208	Kwasu Cough Syrup	G. K Gosu BOX GP 4872, Accra Mob. 0208127408	<i>Zingiber officinale, Allium sativum, Citrus aurantifolia</i>	Presence of Vit B &C, Folic acid and minerals, Anti-inflammatory, Antioxidant, Antimicrobial, Circulatory, Digestive and CNS stimulating actions. Toxicology profile: Mutagenic activity, Avoid excessive dose in pregnancy and lactation.
10. CH0308	Alea Mixture	Alea Herbal Productions BOX 7477, Accra-North Tel. 0244634773	<i>Allium sativum, Monodora myristica, Xylopia aethiopica, Beewax</i>	Presence of Vit B1, B2, B6, C and E, Biotin, Nicotinic acid and Minerals, Anti-inflammatory, Antimicrobial. Toxicology profile: Excessive consumption especially on an empty stomach can cause Gastrointestinal upset and changes in the intestinal flora.

DIABETES				
11. DT0308	Dinsu Mixture	APAAK, BOX 274 Koforidua. Tel.021220539, 0244139284, 0261693700	<i>Anthoclesia nobilis</i> , <i>Dissotis rotundifolia</i> , <i>Desmodium adscendens</i> , <i>Vernonia amygdalina</i>	Amino acid and Calcium present, Antioxidant, Antitumor, Analgesic, Antidiabetic, Neurotropic, Anti-inflammatory. Toxicology profile: No report contacted
12. DT0508	Promise Special Mixture	Margeret Anderson, BOX MC 3005, Saema, Tarkoradi. Mob. 0244871556, 020940977	<i>Terminalia ivorensis</i> , <i>Allium cepa</i> , <i>Nauclea latifolia</i>	Anti-inflammatory, Hepatoprotective, Hypoglycemic Toxicology profile: None available.
13. DT0708	Top Naatah Mixture	A Nkrumah, BOX LG 494, Legon-Accra. Mob. 0244361287	<i>Catharantus roseus</i>	Antidiabetic, Antitumor, Vulnerary Toxicology profile: None available
14. DT0608	Remedy Bitters	John K Dzatah BOX MC 3005, Tarkoradi. Mob. 0277206682	<i>Khaya senegalensis</i> , <i>Magnifera indica</i> , <i>Tetrapleura tetraptera</i> , <i>Parkia clappertoniava</i> , <i>Agava sisalana</i>	Vit E & C present, Anti-inflammatory, Antioxidant, Antidiabetic, Immunostimulant, Antiatherogenic. Toxicology profile: No data available
15. DT0808	Heredit Mixture	A. G Koomsons Herbal Center, BOX 85, Prestea	<i>Anthoclesia nobilis</i>	Neurotropic, Inhibition of noradrenergic effects, Antispasmodic. Toxicology profile: None known
DIARRHOEA				
16. DR0408	Diagellates Elixir	Pharm. Lewis Crabbs, KIS Health Industries Ltd. BOX DS 660, Dansoman Estate, Accra. Mob. 0302-301423, 0302-307535, 0208237955. kishealth@yahoo.com	<i>Psidium guajava</i>	Antimicrobial, Hypoglycemic, Antioxidant, Hepaprotective, Anti-inflammatory, Antitumor, Immunomodulator. Toxicology profile: None known
HYPERTENSION				
17. BP1307	Afa Mixture	Afa & Rich Co. Ltd. Box 23, Gomoa-Eshiem 02486551459	<i>Rauwolfia vomitoria</i> , <i>Alstonia boonie</i> , <i>Cryptolepis sanguinolenta</i>	Indole alkaloids present, Hypotensive, Sedative, Tranquilising, Antiarrhythmic, and Anti-inflammatory. Toxicology profile: DNA intercalator

18. BP1380	Phyllantus Tea	Africa Health Products Ltd, 26 Kinsby Road Achimota Tel. 0277813696	<i>Phyllantus niruri</i>	Alkaloids present, Hypotensive, Antispasmodic. Toxicology profile: Not available
19. BP0908	Agiben Herbal Tea	Agnes Addai, BOX 4761, Accra. Mob. 0277092301	<i>Avocado, Dandelion, Phyllantus niruri</i>	Alkaloids present, Hypotensive, Antilithic, Antispasmodic Toxicology profile: Not available
20. BP1108	Trinity Herbal Mixture	Trinity Herbal Products, BOX 8, Kwamekrom-VR	<i>Catharantus roseus, Sida acuta</i>	Alkaloids present, Antitumor, Antimicrobial, Anticancer, Antihypertensive, Antidiabetic, Antispasmodic, Antisnake, Analgesic. Toxicology profile: Ataxia, Hypermetria, Hyperesthesia and Muscle tremor in high doses
21. BP0608	Denden Garlic Bitters	George Atta sasu, BOX 175, DK Mob. 0208828172	<i>Aloe bitters, Cassia podocarpa, Azadirachta indica, Allium sativum, Rauwolfia vomitoria</i>	Alkaloids, Tannins and Proteins present, Antihypertensive, Hypocholesterolemic, Hypolipidemic, Antithrombotic, Hypotensive, Anti-inflammatory Toxicology profile: Excessive consumption especially on an empty stomach can cause Gastrointestinal upset and changes in the intestinal flora.
22. BP0508	Medi-Moses Beverage	Doganco Ltd. BOX TF 324, ACCRA Tel. 0244541119, 0244068447	<i>Cassia occidentalis, adjuvants.</i>	Tannins present, Anti-inflammatory, antimutagenic, Antibiotic. Toxicology profile: Fresh fruit is toxic to cattle and pigs. Stem frying is tested to destroy the phytotoxins.
MALARIA				

23. ML0208	Class Malacure	Class Herbal Center, BOX 7889, Accra-North Tel. 021-850640, 663693, 850640	<i>Cryptolepis sanguinolenta</i> (stem bark & roots), <i>Preservatives</i>	Antimicrobial, Antipyretic, Anti-inflammatory, Cytotoxic to CA cells Toxicology profile: DNA intercalation in high dose is related to cryptolepine.
24. ML0408	Amen Fevermix	Amen Scientific Herbal Hos., BOX SE 1952, Kumasi. Tel. 03220-50337, 0244412469, 0244227192, 0543201454	<i>Morinda lucida</i> , <i>Parinari robusta</i>	Antimalarial, Purgative, Mulluuscicidal, Effective against Samolena Toxicology profile: Not available
25. ML0508	Krobo fever Eduro	Krobo Natural Health Center, BOX MC 424, Tarkoradi. Tel. 0208150014, 0266541862, 0244989342	<i>Cryptolepis sanguinolenta</i> (roots), <i>Vernonia amygdalina</i> (leaves), <i>Mormordica charantia</i> (leaves), <i>Nauclea latifolia</i> (roots)	Vit C and Carbohydrate present, Antiplasmodial, Antiparasitic, Antimicrobial, Antipyretic, Anti-inflammatory, Analgesic, Vasodilator. Toxicology profile: DNA intercalation related to cryptolepine
26. ML0608	Millennium Fever Remedy	New Millennium Herbal Center, BOX 14166, Accra	<i>Alstonia boonie</i> , <i>Azadirachta indica</i> , <i>Cryptolepis sanguinolenta</i> , <i>Hydratis canadensis</i> , <i>Morinda lucida</i>	Vit C and sugars present, Antimalarial, Antipyretic, Anti-inflammatory, analgesic. Toxicology profile: Cryptolepine is a DNA intercalator.
27. ML0808	Yafo Fever Mixture	Frankplus Herbal Center, BOX 2511, Accra. Mob. 0244891465	<i>Cryptolepis sanguinolenta</i> , <i>Azadirachta indica</i>	Sugars and proteins present, Antimalarial, Antimicrobial, Antipyretic, Analgesic. Toxicology profile: Cryptolepine is a DNA intercalator
28. ML1708	Freedom Herbal Mixture	P. O. BOX AD 755, Accra	<i>Cryptolepis sanguinolenta</i> , <i>Nauclea latifolia</i> , <i>Phyllanthus niruri</i>	Antiplasmodial, Antiparasitic, Antimicrobial, Antipyretic, anti-inflammatory, Vasoactive. Toxicology profile: Cryptolepine is a DNA intercalator
29. ML1808	Alafia Malaria Fever	Ransford Atiako, Alafia Herbal Center, P. O. BOX 389, Madina, Accra.	<i>Nauclea latifolia</i> , <i>Cryptolepis sanguinolenta</i>	Antiplasmodial, Antiparasitic, Antimicrobial, Antipyretic,

		Mob. 0244544279, 0207692990		anti-inflammatory, Vasoactive. Toxicology profile: Cryptolepine is a DNA intercalator
30.ML1908	Nyame Ndea Bitters	Mary Appiah, BOX 3041, MC Takoradi. Mob. 0244544279, 0207692990	<i>Carica papaya</i> , <i>Cassia siamea</i> , <i>Persea americana</i> , <i>Psidium guajava</i> , <i>Alchornea cordifolia</i> , <i>Magnifera indica</i> (leaves)	Vit B, C, E and carbohydrates present. Antimalarial, Antipyretic, Antiplasmodial, Immunostimulating, antimicrobial, Purgative, Anxiolytic, Vulnerary Toxicology profile: Not available
31. ML2008	Golden Malacure	Harry S. Die, BOX CT 206, Dansoman-accra Tel. 0302-325600, 0208113243, 0244458464, 0264458464	<i>Cryptolepis sanguinolenta</i> (roots), <i>Alstonia</i> <i>boonie</i> (stem bark), <i>Vernonia</i> <i>amygdalina</i> (leaves), <i>Trema</i> <i>orientalis</i> (leaves), <i>Azadirachta indica</i> (leaves), <i>Hoslundia</i> <i>opposite</i> (leaves)	Antiplasmodial, Antiparasitic, Antimicrobial, Antipyretic, anti-inflammatory, Vasoactive. Toxicology profile: Cryptolepine is a DNA intercalator, Steve Johnsons syndrome is possible at excessive doses related to Alstonia boonie
32. ML1108	Malaphooid Mixture	GNATH BOX 402, Arts Center, Accra. Tel. 021-676900, 024- 4786962, 0277-587387	<i>Nauclea latifolia</i> , <i>Cryptolepis</i> <i>sanguinolenta</i> , <i>Alstonia boonie</i> , <i>Cassia siamea</i>	Antiplasmodial, Antiparasitic, Antimicrobial, Antipyretic, anti-inflammatory, Vasoactive. Toxicology profile: Cryptolepine is a DNA intercalator, Liver, Kidney and Spleen toxicity indicated
33. ML1208	Suizys Fever Cure	Onyame Ye odo Ent. BOX 387, Kumasi Mob. 0277883726	<i>Newbouldia laevis</i> , <i>Pycnanthus</i> <i>angolensis</i> , <i>Morinda lucida</i> .	Antimalarial, Antibacterial, Antifungal, Antidrepanocytary. Toxicology profile: None available
34. ML1508	Yaakson Mixture	P. O. BOX AJ5, Alajo-Accra	<i>Khaya</i> <i>senegalensis</i> , <i>Magnifera indica</i> , <i>Paullinia pinnata</i> , <i>Rauwolfia</i> <i>vomitoria</i> ,	Vit C & E present, Antimalarial, Antisickling, Immunostimulating, Sedative, Antimicrobial, Antiparasitic.

			<i>Pycnanthus angolensis</i>	Toxicology profile: None available
MOUTHWASH				
35.UM0108	DMA Mouth Wash	Emmanuel AmohAddae, Dua MAyaresa Herbal Clinic, BOX AC 402, Art Center-Accra Mob. 0244622897, 0277671298, info@duamayaresaherbal.com	<i>Clausena anisata, Zanthoxylum xanthoxyloides</i>	Essential oil present, Antimicrobial, Radical scavenging Toxicology profile: Hepatotoxicity indicated.
36. UM0208	Kassa Mouthwash	Edward Asante, BOX 676, Accra Mob. 0244450302	<i>Eucalyptus, Garlic (leaves)</i>	Essential oils present, Analgesic, Antiseptic, Antineuralgic, Decongestant and increases blood circulation Toxicology profile: Can cause poisoning in babies and young children
37. UM0308	Mouthwash Neemfresh	Natural Scientific Pharmaceuticals Ltd. P. O. BOX MD 1172 Madina-Accra	<i>Azadirachta indica (leaves), Clove bark extract</i>	Essential oils and tannins present. Anti-inflammatory, Analgesic, Antiviral, Antifungal, Antibacterial. Toxicology profile: High dose should not be used over prolonged periods.
PAIN/ ARTHRITIS				
38. PA0208	Obiri Herbal Bitters	Obiri Herbal Research Center, BOX 5227, Accra Mob. 0277587387	<i>Rauwolfia vomitoria, Cassia occidentalis, Khaya senegalensis</i>	Anti-inflammatory, Antibiotic, Antiarthritic, Tranquilising, Sedative, Antisickling Toxicology profile: May be toxic
39. PA0308	Krobo Herbal Mixture	Krobo Natural Health Center, BOX MC 424, Tarkoradi Mob. 0208150014, 0244989342, 0266541862	<i>Terminalia ivorensis</i>	Antiarthritic, Anti-inflammatory, Astringent. Toxicology profile: None available
40. PA1708	Hayaat Tablet	Tawheed Lab & Clinic P. O. BOX 381, Kumasi Mob. 0208112536, 0277867399, 051-60110	<i>Khaya ivorensis, Pycnanthus angolensis</i>	Anti-inflammatory, Antisickling, Antibacterial, Sedative, Antifungal, Antidiabetic. Toxicology profile: None available
41. PA1708	Ebetoda Bitters	Kofi Attah, BOX SN 97, Anyinam-Santasi. Mob. 0244416008	<i>Khaya senegalensis, Anthoclesia nobilis, Rauwolfia</i>	Antiarthritic, Analgesic, Antimicrobial, Neurotropic, Sedative, Antiarrhythmic.

			vomitoria, Ureva obovata	Toxicology profile: None Known
42. PA1608	Akobalm ointment	AkobalmEnt, BOX UP 83, KNUST, Kumasi Tel. 051-27430, 020-8124528, 0243502733	<i>Piper guinensis</i> , <i>Strophanthus hispidus</i> , <i>Zingiber officinale</i> , <i>Allium sativum</i>	Vit. B group and volatile oil present. Anti-inflammatory, Antimicrobial, Antioxidant, Diuretic, Toxicology profile: Mutagenic activity, abortifacient and uterotoxicity is possible in high doses
43. PA1808	Odo Pee Ointment	Odo Pee Ent, BOX MK 284 Mankesim C/R Mob. 0244489946, 0246562478	<i>Paullina pinnata</i> , <i>Jatropha curcas</i> , <i>Cassia alata</i> , <i>petroleum jelly</i>	Essential fatty acids, proteins and minerals present. Muscle relaxant, gout, Paralysis, Analgesic and Rheumatoid conditions. Toxicology profile: Phytotoxins (toxoalbumins) act as proteolytic enzymes, owing their toxicity to the breakdown of critical proteins and the accumulation of ammonia
44. PA1908	Dkeenis Powder	BOX 913, Madina- Accra	<i>Nauclea lantifolia</i> , <i>Rauwolfia vomitoria</i>	Spasmolytic, Sedative, Tranquilising, Antiarrhythmic Toxicology profile: None available
HEMMORRHOIDS/ LAXATIVE				
45. HE0108	Haemocaps	Golden Towers Products, BOX 2720, Accra goltwer@africaonline.com.gh Tel. 021-231529, 020-8131644, 020-8174056	<i>Neem panchang</i> (200mg), <i>Ajimodi</i> (50mg), <i>Bakul</i> (25mg), <i>Haritaki</i> (25mg)	Proteins and sugars. Antiinflammatory, Analgesic, Antitumor, Antifungal, Anxiolytic, Anticancer, Antioxidant. Toxicology profile: High dose should not be used over prolonged periods
46. HE0408	Living Bitters Tonic	Capital O2 Natural Health Products Ltd, BOX AN 10744, Accra Mob. 0302-24889, 240776	<i>Bitter aloes</i> , <i>Golden seal</i> , <i>Echinacea</i>	Volatile oils present, Antibacterial, Antiviral, Antifungal, Antiinflammatory. Toxicology profile: None known

47. HE0508	Living Bitters Capsules	Capital O2 Natural Health Products Ltd, BOX AN 10744, Accra Mob. 0302-24889, 240776	<i>Rauwolfia vomitoria</i> , <i>Aloe ferox</i> , <i>Glycerrhiza glabra</i> , <i>Cinnamomum zylanicum</i>	Amino acids, essential oils and fatty acids present. Treatment of hemmorriods, melanoma and gastric ulcers. Antiarrythmic, Anti-inflammatory, Antiallergic, Antinociceptive. Toxicology profile: None known
48. HE0608	Adutwumwaa Bitters	Adutwumwaa Co. Ltd. BOX RY 253, Kumasi Mob. 024665154, 03220-95297, 0208161800	<i>Rauwolfia vomitoria</i> , <i>Aloe ferox</i> , <i>Glycerrhiza glabra</i> , <i>Cinnamomum zylanicum</i>	Amino acids, essential oils and fatty acids present. Treatment of hemmorriods, melanoma and gastric ulcers. Antiarrythmic, Anti-inflammatory, Antiallergic, Antinociceptive. Toxicology profile: None known
49. HE0708	Adutwumwaa Capsules	Adutwumwaa Co. Ltd. BOX RY 253, Kumasi Mob. 024665154, 03220-95297, 0208161800	<i>Rauwolfia vomitoria</i> , <i>Aloe ferox</i> , <i>Glycerrhiza glabra</i> , <i>Cinnamomum zylanicum</i>	Amino acids, essential oils and fatty acids present. Treatment of hemmorriods, melanoma and gastric ulcers. Antiarrythmic, Anti-inflammatory, Antiallergic, Antinociceptive. Toxicology profile: None known
50. HE1608	Kwasu Kooko Aduro	G. K. Gosu, BOX GP 4872, Accra. Tel. 021-301416, 020-8127408	<i>Kigelia Africana</i> , <i>Maraya spicata</i> , <i>Picralina nitida</i> , <i>Vernonia amygdalina</i>	Amino acids present, antioxidant, Anti-inflammatory, Antomicrobial, Analgesic, Antitumor, Anaesthetic, Sympatholytic, Antitussive, Gastrointestinal disorders. Toxicology profile: No report contacted
51. HE0808	Ben T Herbal Powder	Anthony Bentil, BOX 45, Tarkoradi	<i>Khaya senegalensis</i> , <i>Terminia ivorensis</i> , <i>Allium sativum</i> , <i>Monodora myristica</i> , <i>Eugenia caryophyllata</i> , <i>Tetrapluera teraptra</i> , <i>Xylopia aethiopica</i> (dry	Prostaglandins, volatile oil, vitamins B1, B2, B6, C and biotins, Iron protein, minerals and tannins present. Anti-inflammatory, Antimicrobial, Antitumor, Anticarcinogenic. Toxicology profile: Volatile oil may cause membrane and dermal irritation.

			tree powder and dry leaves)	
SKIN DISEASES				
52. SK0108	Chocho cream	Chocho Ind. & Co. Ltd, BOX SU 439, Suhum Mob. 0244727348, 02768232031	<i>Carica papaya</i> , <i>Cassia alata</i> , <i>Alchornea cordifolia</i>	Proteins and minerals present. Antifungal, Antibacterial, Anthelmintic, Antiamoebic, Antiprotozoal Toxicology profile: excessive dose cause irreversible uterine tocolysis
53. SK0908	Joy ointment	Joy Herbal centre, BOX Su 355, Suhum, E/R	<i>Cassia alata</i> , <i>Gossypium arboreum</i> , <i>Daucus carota</i> , <i>Carica papaya</i>	Proteins, minerals and fatty acids present. Anti-inflammatory, Antimicrobial, Antitumor, Anticarcinogenic. Toxicology profile: Volatile oil may cause membrane and dermal irritation.
54. SK1309	ASMISOL OINTMENT (Prof. Owusus Wound Healing extract)	Excel Phyto Pahrma Products, East Legon, Accra Tel. 0302501547 Mob. 027425588 Kumasi. 02447425390, 0208168602	<i>Chalcas exotic</i>	Tested and found to be active against <i>S. aureus</i> , <i>P. aeruginosa</i> , <i>P. mirabilis</i> , <i>E. coli</i> by S. K Owusu Amponsah Twumasi (KBTH)
55.	ASMISOL SOLUTION(Prof. Owusus Wound Healing extract)	Excel Phyto Pahrma Products, East Legon, Accra Tel. 0302501547 Mob. 027425588 Kumasi. 02447425390, 0208168602	<i>Chalcas exotic</i>	Useful in ulceration in sickle cell patients, old dirty wounds, superficial surgical wounds, diabetic wounds. Useful for desloughing and re-epithilization
56. SK1409	Nobi Cream	Tawheed Lab & Clinic, P. O. BOX 381, Kumasi Tel. 0208112536, 0277867399	<i>Cassia alata</i> , <i>Occimum vera</i> , <i>Aloe vera</i> , Honey, <i>Petrolleum jelly</i>	Anti-inflammatory and counter irritant effect of capsaicin, Antimicrobial, UV protective, Antiprotozoal, Burns healing
PEPTIC ULCER				
57. US0108	Ursus 1 Mixture	Apaak Trad. Medicine, BOX 14088, Accra	<i>Piper guinensis</i> , <i>Spathodia campanulata</i>	Wound healing, Antimicrobial, Antioxidant. Toxicology profile: None reported
58. USM298	Ulcerplex Oral	Noamesi Laboratories, Hohoe	To be supplied	

59. US0108	Tinattet Tomac Mixture	Tinattet Herbal Centre, BOX CO 2699, Tema Mob. 0208127408	<i>Alstonia boonie</i> , <i>Cryptolepis Sanguinolenta</i> , <i>Zingiber officinale</i>	Vit. B group, Vit C, folic acid and phosphatidic acid present. Anti-inflammatory, Antimicrobial, Immunoactivity Toxicology profile: Liver, Kidney and spleen toxicity, DNA intercalation and mutagenic activity in excessive doses
TYPHOID				
60. TY0208	Obiri Mixture	Obiri Herbal Research Center, BOX 5227, Accra Mob. 0277587387	<i>Nauclea lantifolia</i> , <i>Phyllanthus fraternus</i>	Spasmolytic, Antiparasitic, Antibacterial, Antiviral, Analgesic. Toxicology profile: None available
61. TY1008	Taifoid Strong	Abraham Laryea Konney, Bright Alk Herbal Products , P. O. BOX 770, Accra Tel. 021-761372	<i>Psidium guajava</i> , <i>Citrus aurantifolia</i> , <i>Vernonia amygdalina</i> , H ₂ O and preservatives	Ascorbic acid, minerals and essential oil present. Broad spectrum Antimicrobial, Antiscorbutic, Antispasmodic, Antidiarrhoeal, Immunomodulatory, Analgesic. Toxicology profile: None available.
62. TY0408	Mist Enterica	CPMR, P. O. BOX 73, Mampong-Akwapem	<i>Spondias mombin</i> , <i>Persea Americana</i> , <i>Psidium guajava</i> , <i>Trema orientalis</i> , <i>Cnestia ferruginea</i> , <i>Momordica charantia</i> , <i>Vernonia amygdalina</i> , <i>Lantana camara</i> , <i>Paullina pinnata</i> , <i>Citrus aurantifolia</i> , <i>Morinda lucida</i> , <i>Bidens pilosa</i>	Vit. B, C & E, minerals and essential oils present. Broad spectrum antimicrobial, antiscorbutic, antispasmodic, antidiarrhoeal, analgesic, immunomodulatory. Toxicology profile: Decreased locomotor activity, clonic and tonic convulsions, irritability, hepatotoxicity and embryotoxicity have been documented.

63. TY0108	Fralena Tafoss Capsule	Fralena Health Products Ltd. BOX 10916, Kumasi Tel. 0244562734, 05136717	<i>Jatropha curcas</i> , <i>Nauclea latifolia</i> , <i>Hoslundia opposita</i>	Spasmolytic, Antiparasitic, Antibacterial, Antiviral, Analgesic. Toxicology profile: Phytotoxins (toxalbumins), acts as proteolytic enzymes, owing their toxicity to the breakdown of critical proteins and the accumulation of ammonia
64. TY0808	Maame Frema Taif Medicine	Al Qudus Herbal Centre, BOX 13741, Accra Tel. 027-7646832	<i>Morinda lucida</i> , <i>Lannea kerstingii</i> , <i>Nauclea lantifolia</i>	Antibacterial, Antiparasitic, Antibacterial, Molluscicidal, Spasmolytic, Vasorelaxation Toxicology profile: None known
65. TY1108	Anidaso Taifaplex	Dependable Ent. BOX 9019, Airport- Accra	<i>Cassia siamea</i> , <i>Terminalia ivorensis</i>	Anti-inflammatory, Antioxidant, purgative. Toxicology profile: None available
MISCELLANEOUS				
66. FCM308	Dua Ma Aduro Tonic	Stephen Otchere, BOX CO 1698, Tema Mob. 0277570615	<i>Ipomea spp.</i> , <i>Witheria indica</i> , <i>Sorghum bicolor</i> , <i>Sucrose</i>	Proteins, minrals, fibre, saturated and unsaturated fatty acid, complex carbohydrates and sugar present. Anticholestrolemic, Antiviral, Antianaemic, Antioxidant, Anticarcinogenic, Antiobesity, Anticoagulant. Toxicology profile: None available
67. FCM308	Appomens Ointment	John Appoh Mensah Church of Pentecost Mercedonia Assembly, BOX 133 Agona Swedru. Tel. 0243288542	<i>Spiropetalum heterophyllum</i> , <i>Kigelia Africana</i> , <i>Petroleum jelly</i>	Antioxidant, Anti-inflammatory, Antimicrobial, Antidiabetic, Hepatoprotective. Toxicology profile: No data available
68. SSM108	Vemkill (snakebite antidote)	Noamesi Laboratory Ltd. BOX 383, Hohoe, V/R Mob. 0285028373	<i>Spices</i>	Tested for 20yrs to be active against poisons of all African snakes and rattle snakes

69.MLM118	Mist Nibima	CPMR, P. O. BOX 73, Mampong-Akwapem	<i>Cryptolesis sanguinolenta</i>	Antimicrobial, Antipyretic, Anti-inflammatory. Toxicology profile: DNA intercalation
70.MLM128	Malaherb	Crown Pharmacy, P. O. BOX 1582, Mamprobi-Accra	<i>Cryptolepis sanguinolenta</i>	Antimicrobial, Antipyretic, Anti-inflammatory. Toxicology profile: DNA intercalation
71. MLM138	Cryptoquine	Apex Herbal Centre, P. O. BOX RY 673, Kumasi	<i>Khaya senegalensis</i> , <i>Cryptolepis sanguinolenta</i> , <i>Nauclea lantifolia</i>	Antimicrobial, Antipyretic, Anti-inflammatory, Hypoglycemic, Antifeedant, Antisickling, antihelminthic, Sedative, Spasmolytic, Antiplasmodial, Antiparasitic. Toxicology profile: DNA intercalation, possibly cytotoxic on C. A cells.
72.PAM158	Rheubalm Ointment	CPMR, P. O. BOX 73, Mampong-Akwapem	<i>Piper senegalensis</i> , <i>Eugenia caryophyllum</i> , <i>Xylopia aethiopica</i> , <i>Monodora</i>	Proteins, Vit C, carbohydrate, mineral and free fatty acids present. Antimicrobial, Antioxidant, Anti-inflammatory, Anticarcinogenic, Antimutagenic, Insecticidal, Analgesic, Thermonociceptive Toxicology profile: None available
73.HEM168	Pile Mixture	CPMR, P. O. BOX 73, Mampong-Akwapem	<i>Anthoclesia nobilis</i> , <i>Lecaniodiscus cupanioides</i> , <i>Dalium guinesis</i> , <i>Treculia africana</i>	Amino acids, minerals, riboflavin and beta carotene present. Antibacterial, Antifungal, Nutritive, Antispasmodic, Neurotropic, Marked hypotensive. Toxicology profile: Can increase body fat in dietary protein deficient animals related to <i>T. Africana</i>
74. SKM198	Garibe Ointment	CPMR, P. O. BOX 73, Mampong-Akwapem	Balanites	
75.TY0408	Mist Morazia	CPMR, P. O. BOX 73, Mampong-Akwapem	<i>Albezia ferruginea</i> , <i>Morinda lucida</i>	Inhibit polymerization of red cell haemoglobin and

			and three other plants	promote rounding of red cell.
76. SKM198	Nyankwa a Oye Body Cream	Elijah Otoo, P. O. BOX 181, Agona Swedru Mob. 0244779205	<i>Cassia occidentalis</i> , <i>Mormordica chrantia</i>	Fatty acids, Vit. C and carbohydrates present. Antibiotic, Anti-inflammatory, Antimutagenic, Antihelminthic, Antilipolytic, Analgesic, Abortifacient, Antiviral, Cytotoxic, Antitumor Toxicology profile: May be toxic
77. SKM208	Megyefo Cream	Samuel Ofori, P. O. BOX 2, Akim Akroso, E/R Mob. 0249223132	<i>Cassia alata</i> , <i>Tauwolfia vomitoria</i> , <i>Petroleum jelly</i>	Essential fatty acids, proteins and minerals present. Antidiabetic, Antifungal, Antibacterial, Analgesic, Laxative, Sedative, Tranquilising, hypotensive, Antiarrhythmic, Antiparasitic. Toxicology profile: May induce sedation, loss of electrolyte and pigmentation of intestinal mucosa.
78. SKM218	Tiger Cream	African Herbal Medicine Team Mob. 0243950000, 0275132732	<i>Theobroma cacao</i> , <i>Persea itrates</i> , <i>Olea europoea</i> , <i>Petroleum jelly</i> , <i>Perfume</i>	Minerals, Antioxidant, Antihypertensive, decreased platelet activation and function and modulation of immune function and inflammation, improvement in endothelial function. Toxicology profile: None available
79. SKM228	Kantika Herbaltics	Adom Herbal Products Mob. 0244383694, 0208183455	<i>Spathodea campanulenta</i> , <i>Magnifera indica</i> , <i>Alstonia boonei</i>	Vit. C & E present. Wound healing, Antimicrobial, Antiarthritic, Anti-inflammatory, Antipyretic, Immunostimulating, Ulcer healing, Gastroprotective, Antiatherogenic, Antihyperlipidemic.

				Toxicology profile: Kidney, liver and spleen toxicity have been documented.
80. CAM278	Amen Camix (now Wormix)	Amen Scientific Tel. 051-50337, 0244227192	<i>Corynanthe pachycras</i> , <i>Anthoclesia nobilis</i> , <i>Parinari robusta</i>	Antispasmodic, Neurotropic and a marked Hypotensive. Toxicology profile: None available.
81. TYM308	Mist Alomal	KAYUS Ltd. BOX WJ 153, Weija, Accra	<i>Morinda lucida</i> , <i>Cryptolepis snaguinolenta</i> , <i>Mormordica charantia</i> , <i>Nauclea lantifolia</i>	Vit. C, Fatty acid, Carbohydrates and volatile oils present. Schistosomicidal, Trypanosomicidal, Diuretic, Antimalarial, Hypotensive, Antiparasitic, Antilipolytic, Antimicrobial, Anti-inflammatory. Toxicology profile: DNA intercalation
82. MLM139	Almorin Tea	KAYUS Ltd. BOX WJ 153, Weija, Accra	<i>Moringa oleifera</i>	Antibiotic principle in roots and hypotensive principle in fresh leaves. Anti-inflammatory, Antibacterial, Anticholeric, Antiviral, Antispasmodic, Diuretic. Toxicology profile: Lower concentration (0.1 – 1 microgram) produce positive inotropic effect and at higher concentrations (1.0 – 10 micrograms) may produce a dose dependent negative inotropic effect. Root bark is toxic to tissue,
83. MLM168	Corpus Immune Booster	Plant Medicine Company, P. O. BOX NG 238, Nungua	<i>Moringa oleifera</i>	Same as above
TRAIL USES	84. Moringa + Garlic Capsules	Expert Herbal Clinic, P. O. BOX NB 544 Tabora, Accra-Ghana Mob. 0203174143, 024920962	<i>Moringa oleifera</i> <i>Moringa oleifera</i>	Same as above Same as above

	85. Moringa leaves (Powered) 86. Natulax Medicinal Tea	expertherbalclinic@yahoo.com same as above BOX SR 438, Spintex Road, Accra. Tel. 0303410827, 0244977029	<i>Lippia Multiflora</i>	Volatile oils present. Antihypertensive, Antimicrobial, Antispasmodic, Anxiolytic, Cytotoxic effects related to <i>Lippia multiflora</i> and <i>Morinda lucida</i> with LC50 values of 1.1 and 2.6mg/ml, respectively
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APPENDIX 3:
Generic Job Description and Job Specification for Medical Herbalist

ASSIGNMENT OF DUTY AND RESPONSIBILITIES TO MEDICAL HERBALIST IN RELATION
TO THEIR JOB DESCRIPTION AND WORKING AS LIASONS IN THE MONITORING OF
HERBAL AND ALTERNATIVE MEDICINE CLINICS

Job Title: Medical Herbalist

Grade: Medical Herbalist

Next Grade and Period Left: Five Years (4 remaining for the first group)

Responsible to: Senior Medical Officer/ Consulting Herbalist/Director

Accountable to: Medical Director of Facility or DHMT/Metro- Health Services Directorate

Job Purpose: to provide to clients and the general public, primary healthcare services based
on modern Medical Science and validated natural and Herbal therapeutics

Job description and work schedule for the Medical Herbalist deployed into a Facility or Sub-Metro/District

Main Duties	Detailed Responsibilities	Frequency	Persons Specification
1). Work under supervision to provide primary healthcare services to patients/Clients and community based on natural and herbal medicine	○ Undertake outpatients consultation ○ Participate in the provision of inpatient services as required. ○ Participate in community health services in collaboration with other health workers	2 days in a week(8hrs) 2 days in a week in a herbal clinic/ facility in the catchment area(4hrs) Monthly as required(6hrs)	• Degree in herbal medicine (clinical option) • Completion of internship and registration with TMPC • At least one in-service training
2). Provide counseling services to patients as may be required	○ Provide education on healthy lifestyle and disease prevention. ○ Provide education on rational use of herbal medicines. ○ Assist clients to assess treatment outcomes and facilitate early referrals ○ Provide preliminary diagnostic services where available	Weekly Using a multi-media approach wherever assigned. (4hrs) Daily On routine visits (4hrs) Daily (where facilities are available. (4hrs)	• Practical experience with primary health care. • Training in counseling and regenerative health and nutrition. • Good communication skills. • Fluency in English and one local language spoken by the community.

			Knowledge and practical experience in diagnostic skills.
3). Participate in monitoring and evaluation of health outcomes of traditional medicine services based on agreed norms.	- Undertake home visit to follow up clients. - Participate in disease surveillance. - Encourage clinic attendance and early referrals - Establish/Review documentation and clinical records management	Fortnightly (4hrs) Monthly (6hrs) As required during visits. Weekly in a herbal facility (8hrs)	- Knowledge in work ethics and patient charter. - Knowledge in the sub-district and district public health activities and referral system. - Competency in clinical records management.
4). Prepare and submit routine reports as may be required.	- Complete reports and clinical records in the facility. - Analyze data to assess performance. - Return reports to facility heads as may be required. - Acts as liaison between the herbal clinics nearest to the health centers/ district hospital and the DHMT.	Monthly (12hrs) Monthly (8hrs) Monthly (4hrs) Weekly (8hrs)	- Understand district reporting system. - Ability to function or relate to a team (DHMT). - Basic knowledge in nation/ mutual health insurance system. - ICT skills. - Knows indicators and important targets in performance outputs.

5). Report adverse drug events related to herbal medicines use and take necessary action.	○ Ensure adequate references in the facility on recommended herbal medicines in use. ○ Investigate reported cases of adverse drug events ○ Advice on necessary action to be taken based on evidence. ○ Report the event on the on the standard reporting format to the FDB and the Pharmacovigilance Centre. ○ Update knowledge in toxicology related to herbal medicine use.	Weekly (2hrs) As required (4hrs) As required (4hrs) As required (4hrs) As required (2hrs)	• Competency in toxic effects of herbal medicines and emergency response to ingestion of poisons. • Familiarity with the use of the recommended herbal medicines list and formulary. • Knowledge in procedures for reporting adverse drug events. • Knowledge about the use of the handbook of scientific monographs on Herbal Medicine use.
6). Promote and participate in the formulation and preparation of herbal medicines based on approved formulary	○ Prepare tinctures and mixtures for dispensing based on recommended formulary ○ Facilitates procurement of raw materials for production	Weekly (6hrs) Weekly (4hrs)	• Understand and use the recommended herbal medicines formulary and Pharmacopoeia. • Understand herbal pharmacy and operations in a mini-production center including quality control procedures.
7). Undertake health promotion and	○ Participate in seminars used to	Monthly (4hrs)	• Good communication skills.

education on herbal and traditional medicines to practitioners and the general public	educate the public and THPs on safe use of herbal medicines. ○ Educate patients at OPD on facilities for medical herbalist. ○ Participate in health promotion activities e.g. immunization campaigns, epidemiological surveys, emergency and disaster management services where necessary.	Weekly (2hrs) When necessary but at least 2x annually (12hrs)	• Good presentation skills. • Skill and experience in community health. • Post-graduate in Public Health is an advantage,
8). Maintain Q & A and Standards of Practice	○ Participate in Q & A Training & Clinical Audits. ○ Understand and apply standards of practice, SOPs and the quality policies of the MOH/GHS. ○ Maintain Q & A in own work area. ○ Update knowledge in quality development. ○ Update knowledge on general health matters related to own work.	Quarterly (6hrs) Annually (4hrs) Daily (8hrs) Quarterly (6hrs)	• Ability to participate in and conduct clinical audits. • Knowledge and understanding of quality assurance procedures. • Knowledge of MOH/GHS, Q & A policies, POWs and SOPs. • Personal initiative and proactiveness.

			Self-motivated and upholds code of ethics.
9). Participate in public health and clinical training workshop and consultative seminars and meetings	- Keep a log on performance, training needs and in-service training. - Assist in clinical trials of herbal medicine and investigate treatment outcomes scientifically. - Develop report for seminars where required.	Quarterly (6hrs) Quarterly (2hrs) Monthly (8hrs) Quarterly (8hrs)	- Good presentation and writing skills. - Ability to participate in clinical trials, conduct sector-wide surveys, based on established protocols. - Good ICT skills.
10). Report and refer to the nearest higher facility or administration and participate in clinical studies.	- Participate in periodic performance reviews. - Participates in continuing professional development. - Participate in case studies, clinical trials of new medicines.	At least ½ yearly & annually (8hrs) At least ½ yearly & annually(8hrs) Annually	- Knowledge of reporting and referrals procedures and relationship with the center. - Good analytic skills. - Knowledge of research methodology (clinical and operational)

APPENDIX 4:

Matrix for the Strategy for Implementation 2011-2014

9.0 MATRIX AND SUMMARY OF THE STRATEGY 2010-2014

Strategic Outputs	Activity Inputs	Stakeholder Institutions Responsible	Costing	Sponsors	Comments
1). Redirecting TM research to product development and clinical studies/trials to the level of patents and design of modern solid dosage forms of high commercial potential.	○ Partnership for technology transfer ○ Clinical trials in hospitals ○ Steering committee on research and TM industry ○ Forging collaborative research and partnership for FDI ○ Forging cooperative support to SMEs	British Council/ African Knowledge Transfer Partnership (AKTP), Noguchi, AGI. Teaching and Regional Hospitals, CSRPM, Noguchi. Noguchi, KNUST, UDS, UG-Legon MTI, MSTE, MOFEP			

		NBSSI, MLGRD, WAHO/ECOWA S Sec.			
2). Facilitation of the establishment, posting and professional progression of Medical Herbalist in the Health Service	○ Standard operating procedures established ○ Accreditation of facilities for the pilot implemented. ○ Approved herbal medicines procured. ○ Space, furniture and equipment provided. ○ Reporting format and indicators for monitoring established. ○ P.E and other service conditions established for deployed Medical Herbalist.	ICD- GHS, TAMD- MOH NHIA, TMPC,TAMD NHIA, GNDP, TAMD ICD- GHS, PPMED- GHS, Public Health – GHS, PPMED- MOH HRD- MOH, HRD- GHS, CD- MOH			

3). Fast tracking the functional operations of the regulatory council by establishing zonal/regional and district offices for the implementing policy guidelines for nationwide training and registration exercises.	○ Supervising Physicians appointed and oriented in TM/CAM. management ○ Registration of Herbal Medicine shops made operational. ○ Registration and accreditation of service facilities up-scaled. ○ The electronic database of registered practitioners made operational. ○ Zonal and district inspectorate and regulatory inspectors/ officers established.	Medical superintendent, MOH TMPC, Pharmacy Council, FDB TMPC, NHIA, PHMHB TMPC, WAHO, GHAFTRAM TMPC/ FDB, GHS, Pharmacy Council			
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	○ Sub-committees for registration, discipline and Complementary/ Alternate Medicine established.				
4). Building a structure for effective monitoring and supervision of the practice of scientific medical herbalism in the public sector through sensitization and orientation of allopathic health providers and managers	○ Indicators for performance monitoring established ○ Training workshop for management and staff established through monthly meetings. ○ Therapeutic audits and quality assurance meetings established ○ Foreign and local partnerships for research	TMPC, GHAMPA DHMT/ Metro-Health Directorate TAMD, PPMED-GHS/MOH, Hospital Management, Overseas Courses Hospital/ Facility Management, ICD- GHS British Council, Chinese Embassy			

	and service forged ○ Protocols for research and documentation of patient and clinical data established.	TAMD, CSRPM, Noguchi, KNUST, UCC, UDS			
5). Collaboration with WHO, WAHO, for strengthening standards monitoring, patients safety, adverse drug reporting, Pharmacovigilance and Pharmacopoeia development	○ Training in adverse drug reporting ○ WAHO Pharmacopoeia completed for Q & A referencing ○ Feed-back workshops established for dissemination of reports from Pharmacovigilance centers	FDB, UG- KBTH WAHO, FDB, WHO FDB, UG- KBTH			
6).Building a data base to facilitate referencing during service delivery and networking of information and	○ Desk review of information sources ○ Visit to local sources of information to	TAMD, Consultant TAMD, Consultant			

research works on Traditional Medicine	facilitate access ○ Ordering of textbooks and publications ○ Registration for access to classified data-bases ○ Infrastructure for creating an information resource center ○ Pre-testing database and editing ○ Creating website and formalization ○ Installation of database ○ Pre-testing network ○ Training of users and IT administrators	TAMD, Consultant TAMD, Pilot facilities MOH/ GHS MOH/ GHS MOH, GHS, Consultant Consultant			
7). Encouraging technology transfer for cooperative medium-to-large	○ Forging partnership between	British Council, UG- Legon, MOFEP			

scale production of herbal medicinal products and production quality assurance training and implementation programmes	industry and research ○ Encouraging technology transfer from foreign and local enterprise champions and technology transfer centers, such as CSIR ○ Encouraging plantation development for medicinal plants to feed large-scale manufacturing production. ○ Institute quality assurance training programmes and a center for contract batch-by-batch quality	KNUST, Research institutions e.g. HRU-GHS, KCCR- KNUST, CSIR CSRPM, Botany-UG & UDS, MLNR, MLGRD & E, MOFA, Atomic Energy Commission FDB, Pharmacy Council, UG-Legon, Noguchi, CSRPM			
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protection (IPR) policies, and promoting funding and innovations and FDI.	technology transfer to be formed in institutions ○ Encourage linkages of patent offices and centers for aiding patent application e.g. CSIR ○ Promote collaborative R&D and funding. ○ Setting-up Research Funding Foundations with partners and stakeholders	Patent offices, Registrar General, CSIR MOFEP, Noguchi, CSRPM MOFEP, Noguchi, CSRPM, National Academy of Arts & Science			
10) Monitoring, Evaluation and Review of the Strategy.	○ Review reports ○ Donor/partners M&E ○ Stakeholders consultative meetings	TAMD, WHO/WAHO/A U etc. CSRPM, UD-Legon, KNUST, UCC, CSIR, FDB, TMPC, PC, MDC, NMC.			

APPENDIX 5: Addendum and Summary Report

A. Summary of Surveys on Receptivity of Health Staff to TM/CAM Products and Services

A popular remark amongst health workers was that co-location TM/CAM services and Western Medicine services would ensure good TM/CAM practice and identify and correct bad or wrong practices before they result in adverse events, although majority of Trainers of health professionals say that, the Health Service is not ready for receptivity of TM/CAM, until Post-graduate clinical studies in TM/CAM have been established for medical doctors. This would require time, massive information, curriculum design and collaboration. Regulators, clients and providers are rather more concerned about product and service safety.

The consensus among policy makers and directors is that, it would be more prudent to pursue all the three options/challenges at the same time. Clinical studies and long-term safety and monitoring would involve rational and ethical utilization of herbal medicine under structured supervision. Post-graduate clinical studies cannot also occur in a vacuum. Hospital practice of TM/CAM is required for post-graduate clinical research and studies.

The survey finding shows that 71% of patients, 50% of health workers use herbal medicine at least once within a year. Administrators do not care about co-location if law allow the practice of TM/CAM and adequate professional training, protocols, guidelines and budgets are earmarked for its inception and operations. 25% of health workers would however not be happy with co-location with TM/CAM services even if the need for information and protocols for safety, quality, efficacy and professionalism are seen to be created for.

The 2009 National Budget Statement, however, stated that 15 Medical Herbalist are to be deployed into accredited traditional and complementary medicine health service centers. MOFEP made available HIPC facilities to fund clinical studies into finding Alternative Herbal anti-malarias in 2009. This trend is expected to continue.

In April 2012, a rapid assessment of the status of implementation of the planned strategy of co-location of approved herbal medicine services in hospitals was conducted by a monitoring team from the PPMED Ghana Health Service. The results which were published , presented and discussed at the April Health Summit is advising the strengthening of management and logistic supply structures in

order to ensure a smooth implementation and operation of the program of institutionalizing herbal medicine services.

APPENDIX 6:

HOW TO START A HERBAL CENTER IN YOUR HOSPITAL

1. Allocate a consulting room or a designated area for consultations and dedicated time period or day as specified by the work schedule for the Medical Herbalist and provide a nursing assistant (*See Appendix 2 of the SOP document*).
2. Furnish the room with table, chairs, washing basin, stethoscope, BP apparatus, examination couch and screen.
3. Download SOPs from website www.tm-moh.gov.gh or call 0302681557.
4. Request for a Medical Herbalist- the herbal medicine Human Resource at the primary level from GHS-HRHD.
5. Request for available Herbal Medicines list from NHIA-Research or Clinical Audit or Operations Directorate, GHS, MOH or download from www.tm-moh.gov.gh
6. Make a request for specific herbal medicines required for the inception by the store keeper or Administrator to the Directorate, Procurement- MOH, or to the Chief Pharmacist or to the Director, TAMD/MOH with assistance of the Resident Medical Herbalist.
7. Set-up a supervisory team with the Physician specialist as lead.
8. Begin to establish the remuneration of the Medical Herbalists with assumption of duty, posting and appointment letters.
9. Ask for the support from MOH-TAMD and GHS-PPMED for training and sensitization of supervisors and installation of data-base software
10. Do a test run and monitor work flow, documentation of clinical data and report to Director General- GHS/PPMED/HRHD and TAMD/MOH
11. Educate staff by relevant presentations from Director of the Hospital, Medical Herbalist, GHS or MOH headquarters staff/facilitators.
12. Make a communication plan to inform the clients at the OPD and the Public by radio announcements and media interviews.

APPENDIX 7:

DOCUMENTS Developed by Ministry of Health and Agencies on TM

The following are reference documents developed by MOH, Ghana and its stakeholders in traditional Medicine Development within the strategic period, 2001-2010;

1. A baseline study into traditional Medicine Practice in Ghana, 2001.
2. Ethno-Botanical and Floristic Studies in Medicinal Plants in Ghana, 2001.
3. Census of Traditional Medicine Practitioners, 2002.
4. Training Manual for Traditional Health Practitioners, 2003 and revised in 2005.
5. Policy on Traditional Medicine Development, 2003
6. Policy on Traditional Medicine Development, Revised in 2005.
7. Food and Drug Board Register 2002-2004 (including registered herbal medicine products).
8. Harmonized Procedures for Evaluation of Herbal Medicine in Ghana, 2004.
9. Strategic Plan Document for the Development of Traditional Medicine, 2002-2004.
10. A Baseline Survey of Herbal Medicines Circulating in the Market, 2005.
11. A Survey of Medicinal Plants Commercial Importance, 2005.
12. A Survey of Abstracts and Research Works on Medicinal Plants, 2005.
13. Strategic Plan Document for the Development of Traditional Medicine, 2005-2009.
14. Code of Ethics and Standards for Practice Document developed and translated into three (3) local languages, 2006.
15. Ghana Herbal Pharmacopoeia, Revised, 2007.
16. List of Recommended Herbal Medicines Essential for Primary Healthcare Services, 2008.
17. Guideline for Intellectual Property Rights Protection framework for Indigenous Knowledge Related to Health and Medicinal Plant Resources, 2008.
18. Tools for Accreditation of Traditional and Complementary Health Practitioners, 2008.
19. Policy and Administrative Guidelines for Complementary Alternative Medicine, 2008.
20. Handbook of Scientific Monographs on Selected (250) Medicinal Plants, 2010.

