



# Guidelines for Management of Menopause

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Department of Family & Community Health



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## **Abbreviations**

BID	Twice a Day
BMD	Bone Mineral Density
ВР	Blood Pressure
CBC	Complete Blood count
D.M	Diabetes Mellitus
FBC	Fasting Blood Sugar
HRT	Hormone Replacement Therapy
HTN	Hypertension
LFT	Liver Function Test
LMP	Last Menstrual Period
mcg	Microgram
OD	Once per Day
RFT	Renal Function Test
TID	Three Times a Day
TVS	Trans-vaginal Scan



In Oman the population pyramid in 2008 shows that 14.16% of females are in the ages of 40 years and above. This percentage is expected to increase, taking into account the current life expectancy, which is 75 years. It is well known that females in this age group usually enter a life cycle change due to peri-menopause and menopause, which usually affect their quality of life. Hence, the special health needs of this category of women have to be attended to.

To meet women's peri-menopausal and menopausal health needs and to improve their over all health, the program of menopausal health care has been included in the 7<sup>th</sup> five-year plan.

The objectives of this program are:

- 1. Screening of medical problems and malignancies common to menopausal age
- 2. Managing existing health conditions and symptoms related to estrogen reduction

Hence, in-order to build and strengthen the capacity of providers in giving standardized comprehensive health care to peri-menopausal, menopausal and postmenopausal women, the Dept. of Family and Community Health of Ministry of health - Oman developed practical clinical guidelines at different service level.

The guidelines are divided into six sections, these are:

- 1. Section One: Policy Guidelines
- 2. Section Two: Tasks of Menopausal Health Care
- 3. Section Three: Understanding Menopause
- Section Four: Management of common peri-menopause and menopausal symptoms & conditions
- 5. Section Five: Hormone Replacement Therapy
- 6. Section Six: Abnormal vaginal bleeding in post-menopausal women

These Guidelines are not meant to replace textbooks. Hence, when-ever detailed information is required, textbooks and other latest references should be used for gaining in-depth knowledge and understanding of the subject.



## Section One Policy Guidelines

## Section One: Policy Guidelines

Menopause is a major event in the women's life cycle where remarkable physiologic changes take place at both physical and psychological levels with occurrence of symptoms and conditions that affect the quality of life. In order to address these changes, the Ministry of Health is extending its services with the following goals:

- To improve woman's physical and psychological health
- To reduce mortality and morbidity of peri-menopausal and menopausal women

Hence, services for evaluation and management of common peri-menopausal and menopausal medical conditions will be provided as an essential and integral component of maternal and child health services through the Ministry of Health network of health centres and hospitals of all levels in all regions.

#### The Services will target

- Women of age 40 years and above who present with symptoms related to menopausal change.
- 2. Women with premature menopause (refer to annex –1 page 41).

#### These Services will include

- 1. **Clinical services:** clinical evaluation, investigation and management. The provision of these services will vary from the primary to referral health care level
- 2. **Counseling:** will be done at all levels by the providers trained in counseling skills.
- 3. **Health education:** through sessions and provision of educational material

### Who will provide these services

All health personnel who are trained on peri-menopausal and menopausal health change, its related symptoms and conditions and their management.

### **Services at different levels:**

#### □ <u>At Primary Health Care Level</u>

The staff at this health care level care will conduct initial evaluation, screening and preventive measures as well as first line management and referral of cases to secondary health care level whenever needed.

#### At Secondary & Tertiary Health Care Level

Gynecologist in menopause clinic will further evaluate and manage referred women, and might collaborate with other specialties in the facility if needed.

## Section Two Tasks of Menopausal Health Care

## Section Two: Tasks of Menopausal Health Care

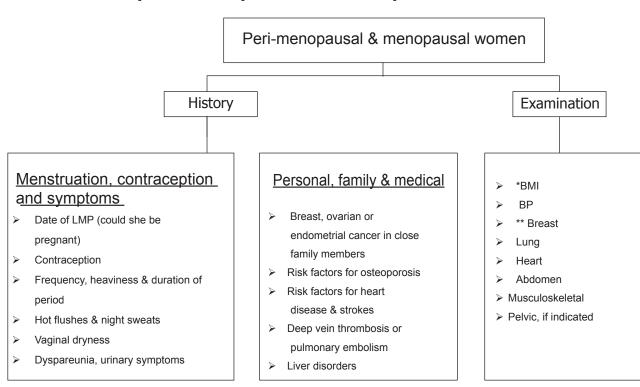
In order to achieve above-mentioned goals the following tasks must be carried out:

#### At primary health care level

The staff at primary health care level will perform the following tasks:

- History taken and physical examination including:
  - Evaluation of individual risk factors for conditions such as breast cancer,
     endometrial cancer, cardiovascular conditions and osteoporosis etc.
  - Perform investigation according to clinical findings
- Counsel on possible risk and necessary lifestyle modification
- Train on breast self examination (refer to screening for breast cancer- Operational guidelines)
- Refer to secondary care level for further management if needed

### Evaluation of peri-menopausal & menopausal women



<sup>\*</sup> Refer to annex- 3 for BMI page 42

<sup>\*\*(</sup>refer to screening for breast cancer- Operational guidelines)

## Section Two: Tasks of Menopausal Health Care

## At Secondary Health Care Level

Gynecologist at secondary health care level should perform the following:

- Further evaluate the referred women
- Management including Hormone Replacement Therapy (HRT), calcium and vitamin D according to clinical evaluation and individualized women's needs. These drugs should not be started without baseline workup.
- Consult other specialties like surgeon,...ect
- Refer women to tertiary health care if needed

#### At Tertiary Health Care Level

Referred women will be clinically re-evaluated, investigation previously done will be reviewed and further special tests required will be carried out like Bone Mineral Density (BMD) etc.

All along woman should be kept informed about the finding of clinical evaluation, investigation and management planned

## Section Three Understanding Menopause

## Section Three: Understanding Menopause

#### **Definition**

The word menopause means the cessation of menses due to failure of ovarian follicular development, and is commonly used instead of climacteric, a wider term for events leading up to and following the menopause (refer to annex-1 page 41). The median age at which the menopause occurs is 51 years, with a range of 41-55.

#### Diagnosis of menopause

Menopause is usually diagnosed by the presence of amenorrhea for a period of 6-12 months together with occurrence of hot flashes. Confirmation of menopause can be done if in doubt by hormonal assay of serum levels of LH, FSH and estradiol.

	FSH (U/liter)	LH (U/liters)	Oestradiol (p mol/l)
Pre-menopause	2-20	5-25	100-600
Post-menopause	40-70	50-70	60

The change in hormone levels, particularly the decline in estrogen levels that occurs during the climacteric phase, causes acute symptoms such as vasomotor symptoms and chronic conditions like osteoporosis.

Table 1: common symptoms & conditions of menopause

Vasomotor symptoms	**Psychological symptoms	Uro-genital tract symptoms	Skeletal	Cardio-vascular disease
<ul> <li>*Hot flushes</li> <li>Sweats         often         associated         with         palpitation</li> <li>Panic         attacks</li> <li>Insomnia</li> </ul>	<ul> <li>Emotional liability.</li> <li>Anxiety</li> <li>Depressed mood</li> <li>Poor memory concentration</li> <li>Irritability</li> <li>Decrease libido</li> </ul>	<ul> <li>Vaginal atrophy (dryness, burning)</li> <li>Dyspareunia</li> <li>Prolapse</li> <li>Urgency</li> <li>Frequency</li> <li>Dysuria</li> <li>Urinary incontinence</li> <li>Voiding difficulties</li> </ul>	***Osteoporosis     Vertebral crush fracture     Femoral neck fracture     backache	Ischemic heart disease     Cerebrovasuclar disease

- Hot flushes and night sweats are the most common symptoms of menopause, although
  they may begin before the cessation of menses. The prevalence of flushes is highest
  in the first year after the final menstrual period. Hot flushes have been reported in up to
  75 % of women undergoing natural menopause and in almost all women undergoing
  surgical menopause.
- Women with hot flushes have twice the rate of insomnia as women without hot flushes.
   It is important to note that there are many additional causes of insomnia; so attributing insomnia to menopause simply because of a woman's menopausal transition status is not advised.

Hot flushes → Disturbing normal sleep → insomnia, irritability and difficulty in concentration.

## Section Three: Understanding Menopause

## Note:

- \*\* These psychological problems are also likely to be associated with past problems and current life stresses such as lack of social support and previous history of depression including postpartum depression.
- \*\*\* Osteoporosis is defined as a reduction in bone mineral density by ≥ 2.5 S.D of the mean. It increases risk skeletal fragility and fractures.



## Vasomotor symptoms:

#### Evaluate risk factors

- Modifiable risk factors that increase the risk of hot flashes: cigarette smoking, spicy food, caffeine, alcohol, smoking, change in temperature, and body mass index > 30 kg/m<sup>2</sup>.
- Non –modifiable risk factors: menopause (natural and surgical)

#### Exclude other causes of hot flashes as clinically indicated.

These can be:

- Hyperthyroidism
- o Pancreatic mast cell disease
- Systemic mast cell disease
- Panic disorder
- Carcinoid syndrome
- o Pheochromocytoma
- **Counseling** (refer to annex-3 page 43)
- Pharmacological treatment: Alleviation of vasomotor symptoms after failure of general lifestyle modification measures.
  - o Hormonal Replacement Therapy (refer to section Five page 27). Short –term treatment should be continued for a minimum of 6 months up to longer period (4-5 years) if required.

 HRT alternatives (Fluoxetine 20mg orally daily) if in case of contraindications to HRT or if woman dose not wish to use hormone therapy.

## Urogenital tract symptoms:

#### Treat urinary tract infection if present

- o Simple versus complicated or according to urine culture
- Amoxicillin 500 mg TID for 5-7 days
- Counseling (refer to annex-3 page 43)

#### Hormonal treatment:

 Hormone replacement therapy: preferably topical vaginal preparation
 (Premarin vaginal cream, if HRT is being prescribed solely for uro-genital symptoms (refer to section Five page 27)

#### Conservative management

- Pelvic floor exercise
- o Pessary (if prolapse present & woman has risk for surgery

### Surgical management of

- Uterine prolapse
- Urinary incontinence

## Psychological symptoms

- Evaluate underlying contributing factors: past problems and current life stress such as lack of social support, economic status, emotional issues, and previous history of depression including postpartum depression.
- Counseling (refer to annex-3 page 43)
- Pharmacological treatment:
- Hormone replacement therapy appears to improve mood and sleep quality. Its
   use should be preceded with informed choice (refer to section Five page 27)
- Referred to psychiatrists if needed

## Osteoporosis:

It is defined as a reduction in bone mineral density by equal or more than - 2.5 S.D of the mean.

## Evaluate risk factors for osteoporosis:

The most important risk factors for osteoporosis in clinical practice are shown in table 2

**Table 2: Risk factors for osteoporosis** 

Risk factor	Examples		
Genetic	Family history of adult fracture (particularly in a first degree relative with hip fracture		
Occasión diseasi	Low body weight / low BMI		
<ul> <li>Constitutional</li> </ul>	■ Early menopause < 45		
	Personal history of fall / fracture		
	Low calcium intake/ vitamin D Deficiency, high protein diet		
<ul><li>Environmental</li></ul>	Cigarette smoking/ high caffeine intake		
	<ul> <li>Alcohol abuse</li> </ul>		
	Sedentarylifestyle/immobilization/ Poor sun exposure		
<ul><li>Drugs</li></ul>	<ul> <li>Use of Corticosteroids, &gt; 7.5 mg prednisolone or equivalent daily</li> <li>prolonged heparin therapy</li> </ul>		
<ul><li>Diseases</li></ul>	<ul> <li>Rheumatoid arthritis</li> <li>Hperparathyroidism</li> <li>Hypogonadism</li> <li>Cushing's disease</li> <li>Hypogonadism</li> <li>Diabetes Mellitus type I</li> </ul>		

### Perform Bone Mineral Density (BMD) if woman:

- Has primary amenorrhea or secondary amenorrhea including that resulting from oopherectomy + hysterectomy at age less than 45 years
- 2. Older than 50 years and suspected to be osteoporotic on x-ray or clinically through height loss or low impact fracture such as Colles' radial fracture or fracture of any peripheral bone excluding the digits3.
- 3. Has a medical condition that predisposes to osteoporosis such as metabolic bone disease, thyroid disease, liver disease, mal-absorption syndromes
- Has used or is using systemic corticosteroid with a daily dose > 7.5 mg prednisolone
   or equivalent for a projected duration of 3-6 months or longer.
- 5. Has a history of fracture, particularly hip fracture in a first degree relative
- **Counseling** (refer to annex-3 page 35)

#### Prevention:

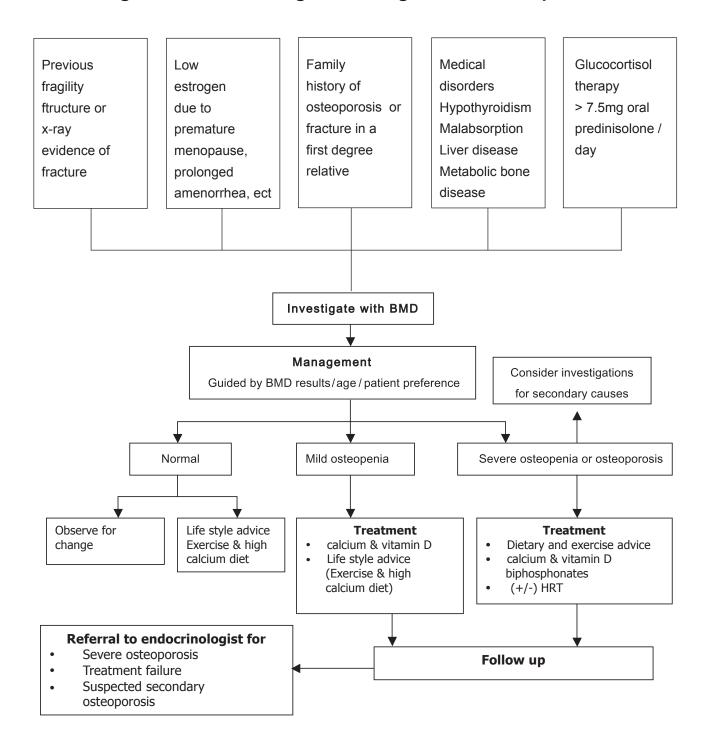
- o life style modification (smoking cessation, moderate exercise)
- Calcium supplementation 500 –800 mg / day
- o vitamin D 800 IU / day

## Pharmacological treatment:

- o calcium supplement: : 1000-1500 mg/ day
- vitamin D (Alfacalcidol) 0.25 mcg OD

- Bisphosphonates: alendronic acid 10 mg daily or 70 mg once a week for the treatment of osteoporosis and 5 mg daily or 35 mg once a week for prevention of osteoporosis. Woman should be counseled to swallow the tablets with full glass of water at least 30 minutes before breakfast (and any other medication) and not to lie down after swallowing the tablets for at least 30 minutes.
- o Calcitonin: Calcitrol 0.25mcg BID
- With or without Hormone replacement therapy: usual recommended dose at least
   0.625mg conjugated equine estrogen (Premarin) orally daily or equivalent (see section Five page 31)

**Algorithm 1: Screening and Management of osteoporosis** 



#### Cardiovascular disease:

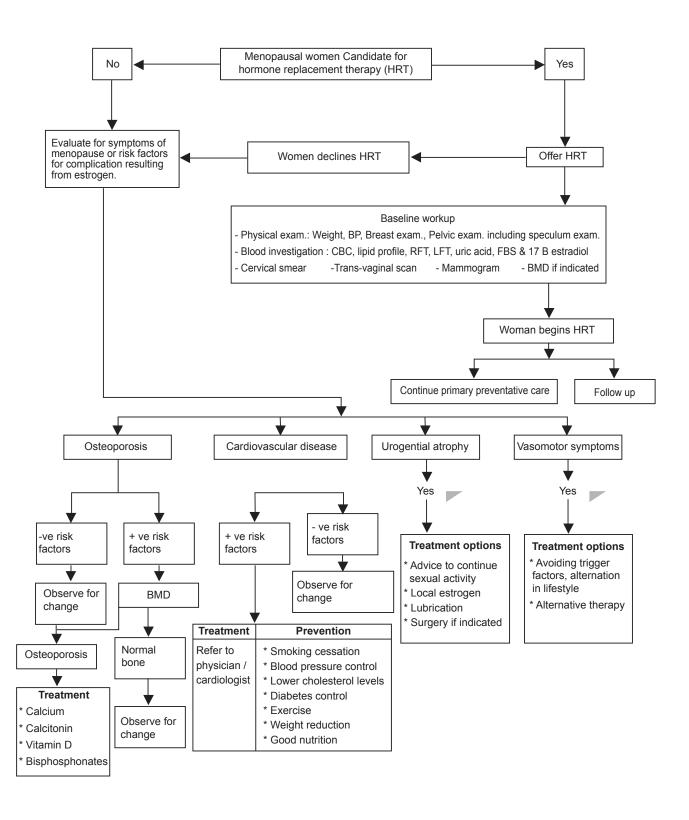
- Control risk factors for cardiovascular disease such as BP, diabetes, hyperlipedemia, lifestyle stressor...etc.
- Counsel on lifestyle modification
- Refer to physician if indicated
- HRT should not be used for treatment of primary cardiac lesion

HRT should not be used for primary or secondary prevention of cardiovascular diseases

Table: 2: Management of Common Peri-menopausal & Menopausal Symptoms and Conditions according to health care facilities levels

Conditions	Primary Health Care Level	Secondary Health Care Level	Tertiary Health Care Level
Vasomotor symptoms	<ul><li>Counseling</li><li>Health education</li></ul>	<ul> <li>HRT</li> <li>Alternative therapy to HRT</li> <li>Health education</li> <li>Counseling</li> </ul>	<ul> <li>HRT</li> <li>Alternative therapy to HRT</li> <li>Health education</li> <li>Counseling</li> </ul>
Urogenital atrophy	<ul> <li>Rx of urinary tract infection if present</li> <li>Counseling</li> <li>Health education</li> </ul>	<ul> <li>HRT (local)</li> <li>Management of uterine prolapse and urinary incontinence if resources available</li> </ul>	<ul> <li>HRT (local)</li> <li>Management of uterine prolapse and urinary incontinence</li> </ul>
Osteoporosis	<ul> <li>Evaluation of risk factors</li> <li>Health education</li> <li>Counseling</li> </ul>	<ul> <li>Calcium supplement/Vitamin D</li> <li>Bisphosphonates</li> <li>HRT</li> <li>Health education</li> <li>Counseling</li> </ul>	<ul> <li>Bone Mineral Density (BMD)</li> <li>Calcium supplement</li> <li>Bisphosphonates</li> <li>Vitamin D</li> <li>Calcitonin</li> <li>HRT</li> </ul>
Psychological symptoms	<ul> <li>Evaluation         of         underlying         contributing         factors</li> <li>Health         education</li> <li>Counseling</li> </ul>	<ul><li>HRT</li><li>Referral to psychiatrist if needed</li></ul>	
Cardiovascular symptoms	<ul> <li>Evaluation of risk factors</li> <li>Control of HTN, D.M, weight management</li> </ul>	<ul> <li>Management in collaboration with cardiologist/physician</li> </ul>	

## Algorithm 2: Summary of Management of the Menopause / use of hormone replacement therapy



# Section Five Hormone Replacement Therapy

### **Guiding Principles:**

- Hormone replacement therapy (HRT) is effective for symptomatic relief of menopausal symptoms and its use is justified when symptoms adversely affect quality of life. The lowest effective dose for a particular woman should be used for the shortest period necessary and treatment reappraised at least annually.
- 2. Alternatives to HRT should be discussed with women before starting HRT
- 3. HRT can be used in younger women who have experienced a premature menopause (younger than 40 years), unless contraindicated, for treating menopausal symptoms and preventing osteoporosis until the age of normal menopause, when the therapy should be reviewed.
- 4. Prior to commencing HRT, contraindication to HRT should be excluded through personal history and family history.
- 5. All women eligible for HRT should be counseled about its benefits and risks. It's use should be with informed choice and management should be individualized.
- 6. When estrogen is being prescribed solely for the treatment of symptoms of urogenital atrophy, topical vaginal preparations should be considered.
- 7. HRT can be used up to five years for relief of menopause symptoms in women in their early 50s. In some women, symptoms may persist considerably longer than this. If a decision is made to stop HRT, it should be phased out slowly in symptomatic women.
- 8. Local estrogen replacement may be required for the long term to reverse the symptoms of uro-genital atrophy. It is more effective than systemic therapy. Low dose vaginal estrogen can also be used in the management of postmenopausal women with recurrent urinary tract infection once underling pathology has been excluded.

**Table 3: Contraindication to HRT** 

Absolute contraindication	Relative contraindication
<ul> <li>Known or suspected breast cancer</li> <li>Known or suspected endometrial cancer</li> <li>Untreated endometerial hyperplasia</li> <li>Active liver disease</li> <li>Current venous thromboembolic disorder</li> <li>Active thrombophlebitis</li> <li>Active or recent arterial thromo-embolic disease (Angina, MI).</li> <li>*Uncontrolled hypertension</li> </ul>	<ul> <li>Undiagnosed genital bleeding</li> <li>Previous venous thromboembolic disorder</li> <li>Chronic hepatic dysfunction</li> <li>Proven coronary heart disease or recent MI</li> <li>Pancreatic disease</li> <li>Migraines aggravated by estrogen</li> <li>Family history of breast cancer/thromoembolism</li> <li>Familial hyperlipidemia</li> </ul>

\*Note: hypertension should be controlled before commencing HRT. Local preparation should be used.

### Base line workup prior to commencing HRT

- Physical examination:
  - o Weight
  - o BP
  - Breast examination
  - o Pelvic examination including speculum examination
- Pap smear
- Trans-vaginal scan
- Blood investigation: CBC, lipid profile, RFT,LFT,FBS and 17 ß estradiol
- Mammogram
- BMD if indicated (see page 21)

### The regimens of treatment

# Estrogen daily + Progesterone for the last 10-14 days of a cycle (every 4 weeks or month) (sequentially) monthly bleeds OR Estrogen daily for 3 months + Progesterone in 2<sup>nd</sup> half of 3<sup>rd</sup> month bleeds every 3<sup>rd</sup> month OR

Progesterone is added to estrogens to reduced the increased risk of endometrial hyperplasia and carcinoma

Note: The shift to the continuous combined regimen should take place after the bleed at

### □ For Hysterectomized women

the end of a cycle of sequential therapy.

Estrogen alone and there is no need for progesterone. Combined HRT may confer a greater risk of breast cancer than estrogen alone.

**Table 4: Doses of HRT** 

1.	Estrogen	Dose
1.	Conjugated equine estrogen (Premarin oral tablets	0.3-0.625 mg
2.	Estradiol gel	50 μ transdermal
3.	Estrogen vaginal cream (Premarin cream)	for 7 days for treatment of vaginitis otherwise as per requirement

2. Drawantrawan		Dose	Regimens	
2. Progestro	2. Progestrogen		Timing of dose	
Sequential				
1. Medrox (Prover	cyprogesterone acetate ra)	5-10 mg	for the last 12-14 days of a 28 days cycle	
,		20 mg	for the last 14 days of 3 months	
2. Dydrog	esterone oral			
(Dupha	ston)	10-20 mg	for Last 12-14 days of 28 days cycle	
			(dose can be doubled if women has bleeding)	
Continuous				
	rogesterone acetate	2.5 mg	Daily	
(Provera)	•		- 59	
2. Dydroges	terone oral (Duphaston)	5 mg	Daily	

### **Starting HRT**

- HRT is offered according to the need
- Symptomatic women should be offered HRT. It should be started after counseling regarding the risks and benefits and after baseline investigation.
- For Perimenopausal women continuous combined regimens should not be used because of the high risk of irregular bleeding. Sequential regime is preferred which produce regular withdrawal bleeding.

### Follow up

### Every six months for:

- Monitoring compliance
- > Relief of symptoms to adjust the doses
- > Blood pressure measurement
- Breast examination.

### Annually for:

- Blood investigation: CBC, lipid profile, RFT, LFT ,FBS
- > Trans-vaginal scan for endometrial thickness
- Pap smear
- Mammography ( after age 50)

### Three yearly for:

> Bone mineral Density (BMD) if normal (depends also on medical condition)

#### **Duration of treatment**

- For vasomotor symptoms → continue for 2-4 years and may continue for up to 5 years then stop to evaluate whatever or not they have recurred
- For prevention or treatment of osteoporosis continued for life (a minimum of 10 years) as bone mineral density (BMD) falls when treatment is stopped

### Management of side effects

- Some women may experience side effects of HRT. Side effects can be related to estrogen or progesterone or combination of both (refer to annex-4 page 45).
- It is essential to discuss side effects when prescribing HRT and explain that they usually resolve.

### Management startegies

- Side- effects are often transient and resolve without any change in treatment with increasing duration of use. Women should be encouraged to persist with therapy for about 12 weeks to await resolution.
- Give oral dose with food
- Start with low dose, gradually increase to therapeutic dose over few weeks
- In women with one year postmenopause, recommend continus regimen
- With persistant side effects the options include:
  - o Reduce dose: when doing this, the endpoints of treatment such as symptoms control and the prevention of osteoprosis must be born in mind in reducing oestrogen dose. Progesterone dose should not be reduced below the recommended levels for endometerial protection
  - Change type of estrogens or progesterone
  - o Change route of delivery- such as from oral to gel
  - o Reduce frequency for progesterone: using long cycle HRT that administers progesterone for 14 days every three months

## Section Six Abnormal Vaginal Bleeding

### Section Six: Abnormal vaginal bleeding

Postmenopausal bleeding and abnormal peri-menopausal bleeding such as a sudden change in menstrual pattern, inter-menstrual bleeding or post-coital bleeding requires evaluation.

### Vaginal bleeding demanding evaluation in women using HRT are:

- With sequential HRT, abnormal bleeding is denoted by a change in the pattern of withdrawal bleeds or breakthrough bleeding
- 2. In women who take continuous combined or long cycle regimens, breakthrough that persists for more than 4-6 months or does not lessen
- 3. Women on continues regimen who bleed after amenorrhea

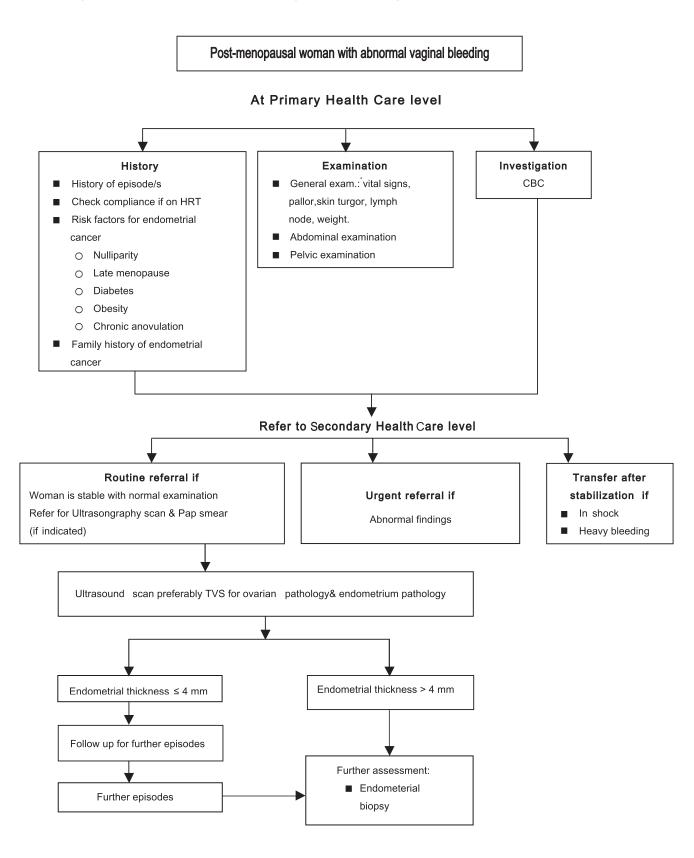
### **General management:**

- Perform a rapid evaluation of the general condition of the woman, including vital signs (pulse, blood pressure) and proper history taken (if possible)
- Check the severity of the bleeding
- If woman has \*heavy bleeding start an IV infusion and infuse IV fluid
- Check Hb level

### Diagnosis

- It is essential to exclude carcinoma of the endometrium or cervix and pre-malignant endometrial hyperplasia
- For those who are on HRT determine:
  - When does the bleeding occur with respect to the estrogen and progesterone phases
    of HRT
  - 2. Duration and type of flow (mild,heavy).
  - 3. Whether or not there was a period of amenorrhea before the HRT was commenced,
  - 4. Whether or not there is a problem suggesting poor compliance
  - \* Heavy bleeding: takes less than five minutes for a clean pad or cloth to be soaked

Algorithm 3: Evaluation of vaginal bleeding in postmenopausal woman







### Annex 1: Glossaries of Terms

Menopause: is defined as the permanent cessation of the menstruation resulting from the loss of ovarian follicular activity. Natural menopause is recognized after 12 months of amenorrhea that is not associated with any other pathologic / physiologic cause. Although the term is used to describe all the various symptoms that occur at this stage, the actual meaning of the word is just what it says 'stoppage of menstruation' with transitional phase lasting for 1-5 years. The time at which menopause occurs depends on race and family history. It does not depend on the age when menses first started or on the number of pregnancies a woman has had.

Technically, natural menopause is the transition between peri-menopause and post-menopause, the entire process culminating with the ceasing of the menses. This natural menopause process itself is usually identified retrospectively, when it has been a year since a last menses.

- Climacteric: is the phase encompassing the transition from the reproductive state to non- reproductive state. The menopause itself is thus a specific event during the climacteric- just as the menarche is a specific event that occurs during puberty.
- Perimenopause: the time immediately prior to the menopause and the first year during which menstrual cycle and endocrine changes are occurring, and ends 12 months after the last menstrual period.
- Premenopause: the time up to the beginning of the perimenopause, but is also used to define the time up to the last menstrual period.
- Postmenopause : begins at the time of the last period.
- Premature menopause: menopause below the age of 40 years. It could be due to premature ovarian failure, surgical menopause and medical menopause.
- Osteoporosis: is a skeletal disorder characterized by compromised bone strength predisposing to an increased risk of fracture.

### **Index and Analysis**

Body Mass Index	Weight (Analysis)
< 18.50	Underweight
18.50-24.99	Normal
≥ 25.00	Overweight
≥ 30.00	Obese

Body Mass Index= weight in kg/ (height in meters) <sup>2</sup>

### Goals of counseling:

- listen to woman problem and build trust with her
- Train woman on how to cope with signs and symptoms of menopause
- Explain to her the concept of healthy life style (healthy nutrition, exercise, emotion wellbeing,
- Make her understand the need for seeking medical help if symtoms persist.

Complaint (symptoms)				
Vasomotor symptoms	<ul> <li>Avoiding the trigger factors if possible such as hot drinks, caffeine, spicy food, alcohol, stress, hot weather.</li> <li>Use of fans, air conditioning, and light cotton clothing and layered cloths.</li> <li>Dietary intake of phytoestrogen supplementation (Soya product).</li> <li>Doing regular exercise.</li> <li>Increase intake of fluid (water &amp; juices) during the attack of hot flush</li> <li>Taking shower or washing face during the attack of hot flush</li> </ul>			
Urogenital atrophy	<ul> <li>Encourage regular sex activity which may help the vagina in maintaining its elasticity</li> <li>Using vaginal lubricants/Moisturizers</li> </ul>			
Psychological symptoms	<ul> <li>Possible causes of insomnia and trigger factors (e.g. drinking tea and coffee, especially in the afternoon and evening</li> <li>Regular exercise such as walking</li> <li>Provide women with skills and resources to modify her lifestyle and her environment to be less stressful and to practice positive thinking.</li> <li>Encourage woman to share her compliant with other women with similar experience.</li> </ul>			
Osteoporosis	<ul> <li>Risk factors for osteoprosis</li> <li>Obtaining an adequate intake of dietary calcium (at least 1,200-1,500 mg/day)</li> <li>Obtaining an adequate intake of vitamin D (400-800 IU / day&gt; most women will get their recommended allowance through diet and exposure to sunlight; other can use supplements</li> <li>Doing regular weight- bearing and muscle strengthening exercise. These exercises improve bone health strengthening muscles, and improve balance, which will help in preventing fall.</li> <li>Fall prevention precautions e.g. taping down rugs, using night-lights etc.</li> </ul>			

### Side effects

### Side effects cause by estrogen:

- Bloating
- Fluid retention
- Breast tenderness or enlargement
- Nausea
- Headache
- Leg cramps
- Dyspepsia
- Weight gain

### Side effects cause by progesterone:

- Fluid retention
- Breast tenderness
- Headches or migraine
- Mood swings
- Depression
- Acne
- Lower abdominal pain
- Backache
- Weight gain

### **Risks of HRT**

1. E	Endometrial cancer
	Unopposed estrogen replacement therapy increase risk of endometerial
	cancer. The relative risk is 2.3. It increase with prolonged duration of use.
2. <b>E</b>	Breast cancer:
	Overall HRT seems to confer a similar degree of risk to that associated with
	late natural menopause. For every year that menopause is delayed, the risk of
	breast cancer increases by 2.8 %. With HRT , the risk has been estimated to
	increase by 2.3 % per year (an extra 2 women developing breast cancer per
	1000 after 5 years of use).
	The risk of developing breast cancer with HRT is dependent on duration of
	treatment, but that this effect is not sustained once HRT is stopped, when the
	risk after five years is no greater than that in women who have never been
	exposed to HRT.
	Risk is greater with combined estrogen-progesterone replacement and less
	with unoppsed estrogen
	The increased risk of breast cancer with comined therapy has to be balanced
	againt the reduction in risk of endometerial cancer provided by this therapy
	compared to estrogen -alone- treatment.
3. <b>1</b>	hromboembolism disease
	Estrogen therpy has been associated with increase risk of venous thrombo-
	embolic disease with 1-2 years after initiation of therapy
	The incidince of venous thrombo-embolism and pulomanry embolism was 3.5
	per 1000 person year.
	The highest risk occurs in the first year of use.

### Annex 4: Side Effects & Risks of HRT

1	Gal	llh	lad	dor	die	ease
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HRT increase gallbladder disease

### Annex 5: International Statistical classification of diseases & Related Health Problems (ICD) -10 for menopause

ICD -10	Diagnosis
N81	Female genital prolapse  Excludes:
N95.1	Menopausal and female climacteric states Symptoms such as flushing, sleeplessness, headache, lack of concentration, associated with menopause Excludes: those associated with artificial menopause ( N95.3 )
M81.0	Postmenopausal osteoporosis
N95.2	Postmenopausal atrophic vaginitis Senile (atrophic) vaginitis Excludes: that associated with artificial menopause ( N95.3 )
N92.4	Excessive bleeding in the premenopausal period  Menorrhagia or metrorrhagia: climacteric menopausal preclimacteric premenopausal
N95.0	Postmenopausal bleeding  Excludes: that associated with artificial menopause ( N95.3 )





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