The Knowledge and Practice of Peri and Post Menopausal Women attending Private General Practices in the Southern Suburbs of Johannesburg, regarding Hormone Therapy.

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A Masters Dissertation submitted to the Faculty of Health Sciences, University of the Witwatersrand, in partial fulfillment of the requirements for the degree of Master of Family Medicine.

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#### **Declaration**

examination at this or any other university. Witwatersrand, Johannesburg. It has not been submitted before for any degree or submitted for the degree of Masters in Family Medicine in the University of the I, Dr Christine Margaret Plant declare that this thesis is my own work. It is being

Al A

Signature

30 of Va 2010

#### **Dedication**

would not have completed this research. throughout this whole process, and without whose help and encouragement I To my family, Angus, Sarah and Daniel who have been extremely supportive

#### Abstract

peri and post-menopausal women in the southern suburbs of Johannesburg attending private general practitioners. Objective: To determine the knowledge and practice (usage) of hormone therapy (HT) amongst

well as HT usage was obtained using a 23- item structured questionnaire history, source of knowledge, along with actual knowledge about benefits and side effects as Design: A descriptive cross sectional study was conducted among 14 GPs' practices' patients December 2009 to February 2010. Sociodemographic characteristics, gynecological

majority of the respondents were married. 59% had a Grade twelve education, and 40% had further education. 73% had health insurance Results: 337 questionnaires were analyzed. The mean age of respondents was 54 years.

those using HT were using it to treat hot flushes, and for those not using HT, the reason given menopausal symptoms. 59.8% of the respondents had undergone a hysterectomy was that they were asymptomatic. 24% had used alternative medicine for the treatment of 44% had used HT to treat menopausal symptoms, with a current usage of 24%. The majority of

some knowledge about the benefits and side effects of HT, with the majority being aware that yet only 45% had talked to their GP and 41% to a gynecologist about HT. Respondents' and breast cancer. Respondents found doctors and nurses to be the most helpful source of information about HT, HT helps in the prevention of hot flushes. Many respondents felt that HT caused weight gain

patients who have discussed HT with their doctors know significantly more about HT than those remedies. Communication between doctors and their patients regarding HT needs to improve in respondents using HT for treatment of menopausal symptoms, is similar to those using natural concerning menopause Conclusions: Although information imparted by doctors is highly valued by their patients and have not, only 40% of respondents are discussing HT with doctors. The number of assist women ಠ make informed decisions when deciding on treatment options.

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# Definitions and abbreviations

### 1) Hormone Therapy: HT

women. This can be estrogen alone or estrogen with progesterone. This refers to the use of the female hormones for the treatment of menopausal symptoms in

Replacement Therapy. (HRT). Throughout this document the term Hormone Therapy is used and it refers to the above definition. The more recent literature uses the term Hormone Therapy (HT) instead of Hormone

2) Women's Health Initiative: WHI

# 3) Million Women Study: MWS

# 4) Complementary and Alternative Medicine: CAM

example, black coshosh, red clover and soy products. that generally lie outside the dominant healthcare system. Popular CAM treatments include for This is a broad term encompassing a range of diverse modalities and diagnostic approaches

## 5) Cardiovascular disease: CVD

# CHAPTER ONE INTRODUCTION

between the ages of 50 and 51, there is a wide range of both the timing and the presentation of (menopause is a single point in time). Although, on average, the onset of menopause occurs end of the reproductive years<sup>2</sup>. The menopause is defined as the cessation of menstruation. menopause The climacteric is the phase in a woman's life associated with physical changes that signal the

increased after the onset of menopause. the longer term there is a higher risk of osteoporosis and cognitive decline. Heart disease is also depression, insomnia, hot flushes, night sweats, genitourinary symptoms, and skin changes. In symptoms<sup>3,4</sup>. The typical short term symptoms range from irritability, anxiety, headaches, Approximately 75% of all women aged 45 years and older will experience menopausal

will increase by 4,7 million a year.<sup>2</sup> The average woman in the developed world can now expect health problem. physicians need to realize that menopause is not a negligible phenomenon but a major public to spend approximately one third of her life in the post menopausal state. According to Malik, It is estimated that in the year 2030, 1,2 billion women will be peri or post-menopausal and this

checkups which include pap smears, blood pressure, glucose and cholesterol tests, as well as a mammogram and bone density scans.<sup>5</sup> recommendations concerning diet, Maximizing the health potential of post-menopausal women is multi-factorial. It includes lifestyle smoking and alcohol, as well as regular gynecological

sexual dysfunction and reduced libido associated with menopause. urogenital symptoms. HT has also been used to treat mood swings, joint and muscle pains, Hormone Therapy remains the most effective therapy for vasomotor and estrogen deficient

considerably the quality of life of women suffering from menopausal symptoms. 4 In the 1980s and 1990s HT was shown to have a good symptomatic effect and to improve

Germany was 26%., was a sharp decline in the use of HT.7,8 treatment. This was not uniform throughout though, for example, the corresponding decline in However, following the release of the Women's Health Initiative Study (WHI)<sup>6</sup> in July 2002, there 63% of American women reported discontinuation of

taking HT for mild menopausal symptoms breast cancer. The WHI study also found higher risks of heart attack, stroke and thrombosis. (MRC) and Cancer Research UK, both found that HT significantly increased the risk of invasive and the UK's Million Women study (MWS)11, sponsored by the British Medical Research Council The NIH took the unusual step of halting the WHI trail and recommended that women stop The Women's Health Initiative<sup>6</sup> (WHI), sponsored by the US National Institute of Health, (NIH)

educational factors and socioeconomic status.9 HT usage including the belief that HT is no longer needed, ethnic origins, religious bleeding, weight gain, and breast engorgement. Many other factors have also had an effect on Usage of HT as a treatment for menopausal symptoms was problematic before the studies<sup>9</sup> and is related to many factors, including adverse side effects such as vaginal

trusting of medical recommendations and less likely to take drugs for cardiovascular disease HT after the WHI trial, given their experience with HT, and that some women are now decisions based on information that is of poor quality and biased. Doctors will have to take this become major determinants of drug use. 12 The problem with this is that women may be making rather than from their physicians. Information and opinions obtained from the media have women in the USA and German studies had learned about the WHI results from the media the patient is swayed by diverse sources of information and that no doctor today can ignore the fact that patients' source of medical information is no longer solely the physician.9 Almost all the Today, the electronic media and press have a profound influence on society. This means that account when advising patients. Schonberg, 13 also showed that many women discontinued

associated with inappropriate attitudes towards HT risks. 9,14 overwhelming. In the field of Hormone Therapy, some studies indicate that knowledge among profound effect on doctors' It is to be noted that the WHI and the MWS not only affected patients' attitudes, but also doctors about risks and benefits is poor.14 Hess also noted that pharmaceutical detailing was prescribing habits, making the confusion and distrust all the more

documented in the literature, which will be discussed in the Literature Review Chapter Patients' knowledge regarding HT, as well as the current usage of HT in different countries

use evidence-based-best-practice and clinical guidelines, which will be discussed later, doctors Despite the prominence of the evidence-based-practice-movement and a trend for doctors

dilemmas. 15 itself is provisional, emergent and incomplete. Patients themselves are faced with the same exists in the application of research evidence to individual patients, and also in that the evidence must appreciate that health decision making is fraught with inherent uncertainty. Uncertainty

management of menopausal symptoms.<sup>2</sup> Knowledge about HT has been shown to 8 an important factor in usage of HT for the

and the results obtained from this study would effect change in the researcher's care of patients Johannesburg. This population was decided upon because the researcher works in this area, The aim of this study was to explore peri and post-menopausal women's knowledge of and with regard to HT, attending private general practices in the southern suburbs of

#### 1.1 Objectives:

- ے education level, past gynecological history, marital status and medical insurance. To determine the demographics of the study population with respect ਰ
- $\overline{\mathcal{N}}$ To determine the respondents' knowledge about the benefits and side effects of Hormone Therapy in the study population.
- $\omega$ determine Ħe source of the respondents' knowledge about Hormone
- <u>4</u> To determine the extent of Hormone Therapy usage in the study population

# CHAPTER TWO LITERATURE REVIEW

#### 2.1 Introduction

This literature review is centered on the following issues:

- Overview of the current guidelines and indications for the usage of HT.
- Controversies surrounding the use of HT
- Studies relating to women's knowledge and perception of HT, as well as usage of HT.

# 2.2 HT in the Management of the Menopausal Woman

also been described. 16 infections as well as anxiety, irritability and depression. Vague muscle aches and joint pain have dizziness, palpitations and insomnia, menstrual changes, vaginal dryness, increased bladder symptoms.3 HT remains The typical short term symptoms are hot flushes, night sweats, headaches, the most effective therapy for vasomotor and estrogen deficient urogenital

HT has also been shown to have long term benefits in the following situations:

# 2.2.1 HT and Osteoporosis

have presented with menopause at an early age.<sup>5</sup> additionally for preventing bone loss in women experiencing menopausal symptoms, or who women presenting with an increased risk for fracture (particularly those younger than sixty) and vertebral and non-vertebral fractures. Osteoporosis is a major health problem in menopausal menopause, therefore decreasing the incidence of osteoporosis-related fractures including Bone loss is increased at menopause, and HT helps to prevent bone loss associated with 픅 is therefore appropriate evidence-based-first-line-therapy in post-menopausal

# 2.2.2 HT and Cardiovascular Disease

now suggests that HT may be cardio protective if started around the time of menopause. 17 despite recent evidence showing that; in general, this is not the case in all age groups. Evidence public and physicians are concerned that HT increases the risk of cardiovascular disease, reduction, glucose and lipid control, smoking cessation and moderate use of alcohol. Both the Cardiovascular Disease is the principal cause of morbidity and mortality in the post-menopausal The primary protective measures include weight loss, exercise, blood pressure

women with hypertension.5 women around the age of natural menopause without increasing the risk of coronary heart disease and may even decrease the risk in this age group. HT is also not contraindicated in The International Menopause Society Consensus Statement states that HT can be given to

HT is pulmonary embolism. not to be used in women who have had a history of myocardial infarction, stroke or

# 2.2.3 HT and Cognitive Function

that there was not a protective effect in the older age group. 18 against Alzheimer's disease, if started early after menopause, 5 Cache County Study and Mirage Study both demonstrated that HT may protect women however the WHI study showed

# 2.3 Potential Serious Side Effects of HT

thromboembolism and deep vein thrombosis, strokes and coronary events Studies on the risks of HT have mainly focused on breast and endometrial cancer, venous

uncommon<sup>19</sup>. If bleeding occurs while on HT, especially if it occurs after a period of six months Unopposed estrogen therapy causes endometrial hyperplasia and should not be used in women endometrial assessment through biopsy. amenorrhoea, it should be investigated. Assessment of these women entails ultrasound uterus. of the endometrium, hysteroscopy and diagnostic dilatation and curettage Endometrial cancer in users of continuous combined HT <u>w</u>

studies and six meta-analyses have examined the association between HT and breast cancer in The risk of breast cancer and HT is discussed more fully in 2.5.2. Over 50 epidemiological

risk, but only after five years of usage.20 This was further shown in the WHI study.6 effect on breast cancer risk, 13% reported a modest increase and 5% reported a reduced risk. the past 30 years.<sup>20</sup> Among the studies that have examined estrogen-only use, 82% found no The results of the studies with estrogen and progestogen preparations show a small increase in

In 2010 the guidelines for the management of the peri and post-menopause are as follows

# 2.4 Current Clinical Guidelines for the Management of Menopause and the use of

hypercoagulability states should only be undertaken in patients at risk (personal or family history supplemented by specific investigations. These may include a fasting lipogram, blood glucose, of venousthromboembolic disease) before instituting HT.<sup>5</sup> specific as well as general health related matters. Medical history and examination should be The menopausal transition should be utilized as a window of opportunity to assess and manage function, BMI, mammography, and ಖ DEXA bone scan. Investigations

body mass index, exercise and stress reduction should be discussed Lifestyle modifications such as smoking cessation, diet, and the maintenance of appropriate

optimal Treatment of dyslipideamias, hypertension, diabetes and other medical conditions should be

should be individualized according to each patient's needs. 5 HT should be initiated for specific indications, provided there are no contraindications and

### 2.4.1 Indications for HT

- Treatment of vasomotor symptoms and associated sleep disorders
- Symptomatic urogenital atrophy
- and women with osteopenia at risk for fracture. Prevention of bone loss in women with premature menopause, secondary amenorrhoea
- considered.5 prevention or treatment of osteoporosis, other proven bone specific therapies should be The treatment of osteoporosis in women in the age group 50-60 years at risk of fracture, with or without vasomotor symptoms. If HT is considered for the sole purpose of the

### 2.4.2 Contraindications

- Current, past or suspected breast cancer
- Known or suspected estrogen dependent malignant tumours
- Undiagnosed genital bleeding
- Untreated endometrial hyperplasia
- Previous idiopathic or current venousthromboembolic disease
- Known arterial Coronary Heart Disease.
- Active liver disease
- Porphria cutanea tarda (absolute contraindication)<sup>5</sup>

# 1.5 Issues that have caused confusion over the past decade regarding the use of

# 2.5.1 The Cardiovascular Risk Debate

an increased CVD risk and is therefore unsuitable for the relief of menopausal symptoms postmenopausal patients (ages 50-55), patients and doctors alike now believe that HT results in quality clinical outcome data on efficacy and safety when HT is begun for symptoms in early is the most effective way of treating menopausal symptoms but, despite extensive and good which this occurs<sup>17</sup> but the potential role of HT in CVD management remains controversial. HT After menopause the risk of cardiovascular disease (CVD) increases regardless of the age at

users of HT containing estrogens and a synthetic progesterone. suggested that there was an increased risk of coronary heart disease and breast cancer in Health initiative study(WHI)<sup>6</sup> in particular and the initial assessment of the data in 2002, which This is as a result of the concerns about HT safety following the publication of the Women's'

protective.<sup>21</sup> This re-analysis in younger women by the WHI authors has received little publicity. around the time of menopause, there is no significant risk and HT may even be cardio increase in risk of CVD is not statistically significant and, furthermore that when HT is started then, more detailed analyses of the WHI data have since shown that the apparent

# 2.5.2 The Breast Cancer Debate

disappears 5 years after cessation of therapy.<sup>20</sup> increase in any study. The effect is more pronounced in lean patients and the increased risk treatment if initiated after the age of 50 years. It is possible that this does not imply causality, but (e.g. WHI: 8/10 000 per year or less than 0.1% per year) but increases with the duration of five years. Although the relative risk is in the order of 1.35, the absolute increase in risk is small HT is associated with a small increase in the risk of invasive breast cancer if used for more than modification of pre-existing malignancy. Carcinoma in situ has not been shown to

Estrogen replacement on its own, does not increase the risk of breast cancer. 20

# 2.6 Factors affecting Usage of HT

socioeconomic status; education; influence of the media; perception of menopause utilized modality of treatment. The reason why a patient does or does not take medication is remedies/ CAM. (Complementary and Alternative Medicine). perceived adverse effects, advice from health care providers, as well as the use of natural based not only on the the management of the menopausal woman<sup>22</sup> and yet, as will be shown, HT remains an under-In 2010, as has been discussed, there is clinical evidence of the beneficial role that HT has in best clinical evidence, but on other factors such as culture, and

# **Demographics: Developed Countries versus Underdeveloped Countries**

However, there have also been studies in India, Asia, South America and South Africa the United usage of HT in different countries. The majority of these were in developed countries, especially In the past decade, there have been at least 23 studies about knowledge, attitudes toward and States and Europe. This was predominantly after the WHI and MWS studies

undertaken from January to April 2005. Of 102 post-menopausal women who were interviewed knowledge and attitude towards menopause and HT among post -menopausal women, based overall, usage rates of HT are low.2 Malik conducted a descriptive cross sectional study about In underdeveloped countries the results differ from the results of the developed world, although only 2, (1.96%) knew about HT. sample of convenience at outpatient services of a hospital in Karachi, India. The study was

only 50.1% of the women considered HT beneficial and current and former users were low who one would expect to know more, and yet the usage and knowledge of HT is very low (1.7% and 14.3% respectively). This is a small study, but the population was from nursing staff questionnaire in a cross sectional study. 349 women participated and the results showed regarding HT. Use, perception, level and source of knowledge was obtained using a structured In Equador, (an underdeveloped South American country) Leon-Leon<sup>23</sup> obtained information

interviewer was a registered nurse and spoke the local language that it was a small study and all the women were attending one private practice, which could their Caucasian counterparts, and in fact had a higher incidence of vasomotor symptoms. women, and found that they were unaware of the potential benefits of HT. 94% had never heard to lack of knowledge of treatment available, these women remain untreated. A limiting factor is of HT and usage was not measured, although their experience of menopause was similar to to describe the incidence and understanding of post-menopausal symptoms in a group of Xhosa In South Africa, in the rural area of Kwa-Zulu Natal, Frederichs 16 undertook a descriptive study bias. It was, however, an interview-based study, which is a strength in that the

influence of the results of the WHI study and will be discussed further in 6.3(Influence of the a postal survey in 2000, comparing results from a similar study completed in 1991. The aim of than in the underdeveloped world. In Scotland, which is a developed country, Rigby<sup>24</sup> conducted In the developed world, we find that patients are more aware of HT and usage rates are higher rate of 22%, this has also changed from a range of 43%-71%. 25 This is thought to be due to the Hoffman<sup>12</sup> showed in his study (conducted in Sweden) that the HT user rate changed from results of the study showed a current user rate of 17% with an ever user rate of study was to monitor changes in women's knowledge of and attitude towards ರ 23.3%, between the years of 1999 and 2003. Studies in the USA show an average

# 2.6.2 Knowledge about HT

Knowledge of benefits and side effects of HT studies have been undertaken in different parts of

Specific knowledge about menopause and HT was low (39% and 38% respectively). The menopause and HT (not usage) in 150 women who were from under-resourced backgrounds. Africa, Maharaj<sup>26</sup> utilized a structured questionnaire to assess knowledge 으

one only acquires knowledge about a subject once it applies to the individual women were in the age group 18-40 years, and specifically anyone who had used HT from the study. This age group would be expected to have low knowledge scores, as

women's knowledge of HT in Pakistan.<sup>27</sup> knowledge of HT affects usage of HT. believed that they had enough information regarding HT. Thus, in Ecuador<sup>21</sup> only 50% of women considered HT to This trend is reflected once more in Baig's study of be it appears of benefit and only evident that

knowledge on menopause and HT. sectional study, using interviews to obtain information, which yield better information than included relatives (35%), television (18%), neighbors (17%), friends (17%), and health menopausally to discuss the issue of menopause. This study was a population-based cross-Baig<sup>27</sup> showed in his study, in Pakistan, that the main source of information about menopause (14%), Malik<sup>2</sup> although 53% indicated that women should consult a showed that in Karachi the majority of women lacked physician

be due to the media playing a role as well the health care providers' apprehension toward the HT, whereas the attitudes towards menopause itself were stable. These results were thought to changed significantly from 1999 to 2003, after the recent reports on risks from long term use of and felt that women with severe symptoms should use HT. Women's attitudes towards HT had menopause, (ie that the menopause is a natural process due to aging and hormone deficiency) questionnaire in 1999 and 1239 in 2003. Most Swedish women had a largely biological view on used a tick box format and a 5 graded Likert scale. In this study 1180 women responded to the Sweden about attitudes regarding menopause and HT. This study utilized a questionnaire that questionnaire-based study asking all women aged 53 -54 years in the community of Linkoping, attitudes towards menopause seem to have remained stable. Lindt-Astrand 18 undertook a Research undertaken in Sweden reveals changing attitudes towards HT, although women's risk benefit balance of HT.

the evidence is also questionable issues are complex and affected by so many factors, including the impact of the media. Much of Thus it may be seen that lack of information about HT is an important reason for not using it, lack of knowledge being greatest in the less educated, older and poorer socioeconomic However, too much knowledge may also act as a hindrance to using HT, because the

# 2.6.3 Influence of the Media

the WHI study was described as a Primary Prevention study of normal healthy women was 50 or 79 years. The majority of women who were recruited were over sixty. 7.7% had a were analyzed and flaws recognized, e.g. a standard dose of HT was used whether the woman Britain in 2003 showed similar findings. 11 The results were given to the media before the studies uterus<sup>6</sup>. The trial was stopped early, based on the perception that the health risks exceeded the initial results for the trial of combined estrogen and progestin (progesterone) in women with a past history of cardiovascular disease and 35% were on anti-hypertensives or statins and yet benefits.(i.e. first analysis of the results.) The Million Women Study (MWS) undertaken in Great In July of 2002 the Writing Group for the Women's Health Initiative Investigators published their

fixed in the public memory.9 prevent the public from believing in the negative side effects of HT. This misperception was Unfortunately, even when the flaws of the original analysis were conveyed in print, it did not

that HT causes breast cancer and CVD. Even though there has been peer review of the data there is still the perception with the public

detailing was associated with inappropriate attitudes towards HT risks doctors about the risks and benefits of HT is poor. Hess<sup>14</sup> also noted that pharmaceutical the more overwhelming in the field of treatment of the menopausal woman. Knowledge among also had a profound effect on doctors' prescribing habits, making the confusion and distrust all The WHI in the United States and the MWS in the UK not only affected patient's attitudes but

be misinformed reading to keep abreast of current trends, can be misled, and this in turn will cause patients to or explain that these findings have been peer reviewed and shown to be incorrect. A busy GP heart disease, thromboembolic disease and breast cancer". Stearns does not go on to qualify Million Women Study suggest that long term estrogen is associated with an increased risk of therapy for hot flushes, recent large studies such as the Women's Health Initiative and the Practitioners) dated April 2010, the following is written: "While estrogen remains the best known a Women's Health article written for Update<sup>28</sup> In 2010, the guidelines, benefits and side effects are clearer than in the years after 2002. Yet in , (a journal of Continuing Education for General

taking HT in July 2002, were included. Of the 204 women, 54% were taking combination HT. academic primary care practice in Massachusetts. Women aged 50 years and older, who were WHI study. randomly selected telephonic survey from July to Following the release of the WHI study in July 2002 there was a sharp decline in the use of HT. had heard of the WHI study and 70 % stopped HT after hearing about the results of the of American women reported discontinuation of treatment. Schonberg<sup>13</sup> September 2003, selected from conducted a

questionnaires had been sent out in 1999 and again in 2003. 1700 questionnaires were the risks and benefits and use of HT before and after the WHI and the HERS studies. Postal received. Usage of HT fell from 40.5% to 25.3%, and the women who had used complementary Hoffman<sup>12</sup> conducted a study in Sweden to assess the changes in women's perception about medicine increased from 9.6% to 18.1%.

current users, and 22% were past users, and 60% were never users. This level of HT usage is the current HT usage was 9%.and 7% had taken it in the past. In the 2000 results 17.4% were menopausal women were reported to be using HT. (This was before the WHI study was consistent with other UK studies and is lower than in the USA where 43% to 71% of post-HT also from 1991 to December 2000. In 1991 the study of 1500 Grampian women showed that In England, Lewin et al<sup>25</sup> monitored the change in women's knowledge of attitudes and usage of

knowledge score. Knowledge scores were found to be lower for African-American women and the risks and benefits of HT. A nationally representative survey, in the USA, of 781 women women with less education. Knowledge was best for breast cancer and osteoporosis outcomes. Only 29% of women were aware of the WHI results. Only 40% had a positive aggregate (mean age 49 years), 24 months after the publication of the first WHI findings was completed. in 2004, Rigby<sup>24</sup> conducted a study to evaluate women's awareness and knowledge concerning

usage of HT.9 Sweden, Germany and the USA show a progressive change in attitude toward, and a decline in, Current HT usage varies in different countries. In Sweden it has dropped from 40% in 1990, to ₹. In the USA it is at 22% post WHI.9 The KAP studies that have been done in

# 2.6.4 Discussing HT with a Health Care Professional

53% said that women should consult a physician pre-menopausally. the respondents had consulted a physician for various symptoms related to menopause and menopause with a doctor had fewer symptoms and were more critical of HT. In Pakistan,<sup>27</sup> more likely the woman would have discussed the problems. Women who had not discussed menopause with a doctor and those who had not. The more problematic the symptoms, the peri and post-menopausal women had discussed menopause with a doctor, either a GP menopausal women discuss menopause with a doctor. Hvas<sup>29</sup> in his study showed that 71% of If doctors fail to take into account patients' knowledge and attitudes about menopause and the role of HT, they will be less effective in the treatment of their patients. There were significant differences between women who One would had all of

women in Leon-Leon's study the source of information was physicians, educational sessions sessions addressing the issues of menopause and HT in 93.1% of respondents. For most of the the study was for women aged 18-40 years, this age group would not be targeted by doctors to received their knowledge about menopause from family and friends, although the age group of providers (General Practitioners 35.3%, hospitals 33,1%) and most women in this study had discuss the menopause In the study done by Maharaj<sup>26</sup> the women had received little information from health Leon-Leon<sup>23</sup> also found a willingness to participate in educational

about menopause and HT from a doctor, and discussing it with a doctor, was associated with HT. Participants generally had a positive attitude about HT, however, receiving the information natural remedies and receiving information from or discussing HT with family or friends. menstrual period and current usage of HT. Negative attitudes were associated with use of greater positivity. Positive attitudes toward H⊺ were associated with higher age, time since last 561 women were asked to complete a self-administered questionnaire about menopause Sveinsdottir<sup>30</sup> conducted a study among women drawn from the National Registry from Iceland

wanted to change from HT, and most respondents, (95.4%) based their decision on the choice initiating HT were osteoporosis, hot flushes and vaginal dryness. Of all the current users, 43.2% standardized questionnaire. 53.9% were current users of HT, and the most common reasons acceptance towards menopause and HT. in 2003, 615 women were asked to complete a of treatment on medical advice A hospital based survey was undertaken in Bangkok, 31 to assess women's attitudes

source of menopause-related information, whereas African-American women reported that their family was the primary source of information. menopausal management with their doctors. For white women, the media was the primary Grisso<sup>32</sup> reported that despite the high prevalence of symptoms, few women had discussed

# 2.6.5 Use of Natural Remedies

relaxation and stress management techniques) as well as CAM products for menopausal outside the dominant healthcare system. vitamins<sup>33</sup> symptoms encompassing a range of diverse modalities and diagnostic approaches that generally lie Complementary and alternative medicine (CAM) or natural remedies which include products such as black cohosh, red clover, soy products and These range from self-care techniques (including are broad terms

women with menopausal symptoms seek other treatments cardiovascular risks, as well as the influence of the media; therefore it is not surprising that breakthrough bleeding. As has been discussed, there are also the issues of cancer twelve months of its initiation because of side effects such as bloating, breast tenderness Despite the effectiveness of HT, a significant number of women discontinue treatment within

a study to determine the CAM usage in Sydney. The study was questionnaire-based involving least one CAM product during the past year to alleviate menopausal symptoms. 1296 women. The study showed that 53% of surveyed women aged 45-65 years had used at The prevalence of CAM usage varies from 11% to 82.5%.  $^{33}$  Patching van der Sluijs $^{33}$  conducted

information was obtained from sales of these products from the data-base of the National symptoms Hoffman<sup>12</sup> showed that in Sweden the use of natural remedies for the treatment of menopausal Corporation of Swedish Pharmacies. had increased from 9.6% to 18.1% over the years from 1999 to 2003. This

conjunction with conventional HT. 62% reported using a CAM product over the past year without discussing it with a health care professional. These products are easy to obtain, non-scheduled, over the counter products. In the Patching study, a significant proportion of respondents were using CAM products

# 2.6.6 Other Demographic Influences

#### Age.

attitudes change as they reach menopause, from a more pessimistic view to a more neutral or optimistic one. Age is a confounding factor for knowledge and usage of HT. Astrand 18 showed that women's

#### Education

this could be due to the age group that was chosen:18-40 year olds.) although overall knowledge of specific issues relating to HT remained low. (as mentioned earlier education levels, race and occupational status and knowledge about menopause, but not of In the study by Maharaj $^{26}$ , it was found that there was a significant association between higher Higher education was shown to have a positive impact on knowledge of menopause,

group, and suggested that this may indicate that the more educated women are more aware of the inconclusive risks and benefits of HT, and therefore less likely to take HT to treat usage of HT. Lewin<sup>25</sup> found that there was a decrease in the usage of HT in the more educated Increased education does not necessarily equate with more knowledge and therefore more menopausal symptoms.

# CHAPTER THREE METHODOLOGY

#### 3.1 Design

The study was a cross-sectional descriptive study.

#### 3.2 Site of Study

which includes areas such as Bassonia, Glenvista, Mulbarton and Alberton. These represent a which tend to be on the lower end of the socio economic spectrum, as well as the "new south" more affluent population. Johannesburg. The southern suburbs include older areas such as Rosettenville and The Hill, The study was undertaken in general practitioners' practices' in the southern suburbs of

large segment (41%) belonging to the 20-40 year-old group. The gender distribution is insurance are approximately 30% approximately 50% and in terms of race, 51% are white, with 33% black, 10% coloured and 6% maturing one, with 23% of the population between the ages of 40 and 60 years as well as a Asian. The unemployment figure for the south is given as 16%, and those who have medical Market research<sup>34</sup> undertaken by Mulbarton Hospital in 2007,has shown that the population is a

education and the researcher practices in a similar population group. These practices are but have been chosen because they serve a mixed urban population in terms of age and accessible and the subjects are literate These practices will not necessarily be representative of the wider population of South Africa,

### 3.3 Study Population

Peri and post -menopausal women aged 45 to 70 years, attending randomly selected practices of private doctors (general practitioners) in the southern suburbs of Johannesburg.

#### 3.4 Sampling

#### 3.4.1 Sample Size

required. (nQuery Advisor 6.0). i.e. 385 from 14 practices determined under the assumption of 50% usage. To estimate the prevalence to 5% precision, Sample size was based on objective 4, i.e. prevalence of Hormone Therapy Usage. An estimate of usage is not available and hence the conservative route is followed where sample size is confidence interval, falls within 5% of the prevalence, a sample size of 385 was

analysis would still provide good precision. provide for a 30% non return, 14 practices were required, and they were randomly selected supplied with 40 questionnaires. This sample size had the advantage that subgroup all practices prepared to participate in the study, was required. Each participating practice

### 3.4.2 Doctor Sampling

information. The hospital does this on a yearly basis for their records. The list is comprehensive that use the facility as a referral centre. Resources Manager at the hospital, it was decided that the list was representative of the doctors but does not include all the doctors practicing in the area, as the doctors had to forward their Hospital. This was chosen because the hospital is central to the geographical area. The hospital information Human Resources Department had contacted the GPs in the area and asked for their contact sampling frame was obtained from the Netcare Directory listed under the Mulbarton ō the hospital. It was completely voluntary. After discussion with the

generate the list of doctors. random number generator obtained from Microsoft Homepage (free download) was used to The practices were obtained using a random method of selection from the supplied list.

found to be take part in the study. If they declined then the next on the list was contacted. If a practice was in the same practice, they were eliminated. The researcher phoned consecutively the doctors on the list, asking if they would be willing to unsuitable due to demographic issues, retirement or duplication of doctors working Doctors were phoned until 14 practices had been

researcher and the study was explained verbally. At this meeting written consent from the study, as well as a formal letter of consent for each practice. Each practice was visited by the provided with more information, including an information letter for the doctors explaining the doctor was obtained. (see appendix 2). The initial contact with the doctors was telephonic. If they agreed to be involved, they were

### 3.4.3 Patient Sampling

the target age group who attended the practice during the collection phase patients to fill in the questionnaire. They were to approach, on a consecutive basis, all women in The doctor's receptionists were briefed about the purpose of the study as well as how to ask the

# 3.5 Inclusion and Exclusion Criteria for Patients

### 3.5.1 Inclusion criteria

- i. Female patients who were 45 to 70 years of age.
- Patients who were sufficiently literate to answer a questionnaire.
- ≣ Patients who consented to complete the questionnaire

### 3.5.2 Exclusion Criteria

Acutely ill patients

### 3.6 Measuring Instrument

three sections: basic demographics, practice or usage of HT and knowledge about HT The study was conducted using a self-administered questionnaire. The questionnaire comprised

experience and examples from other studies. 15, 29 The questions were derived from discussions with colleagues, the researcher's clinical

whether the respondent had medical insurance The questionnaire asked basic demographic questions, age, educational level, occupation and

management of menopausal symptoms. were still menstruating, when they last had a pap smear and whether they had used HT for the next section of the questionnaire asked questions about women's health. Whether they

about the benefits and side effects of HT. The questionnaire is attached. (Appendix 4). about HT; whether they had talked to a doctor about HT and then what the respondents knew The final section asked about whether natural remedies had been used; source of knowledge

#### 3.7 Pilot Study

data collection and analysis A pilot study was conducted in the researcher's practice, to review the questionnaire, method of

which time 33 questionnaires were collected from women aged 45 years and over. The pilot study was undertaken over a week from the 2<sup>nd</sup> to the 6th November 2009, during

graphs. The initial data from the pilot study was coded in Excel, and analyzed by means of tables and

then limited to women between the age of 45 and 70 years. correctly, and they were often unaware of many of the aspects of the study. The age group was final study, as they would also be the group most affected by HT. It was observed that people within the age group 45-65 (74%), therefore this was the most appropriate age group for the From the pilot study it was evident that most of the women who completed the study were age group (above 70 years) had trouble completing the questionnaire

and 13) were so poorly answered (17 people did not fill in the question out of 33) it was decided to reformulate the question by combining them and requiring the patients to tick a box The question about sources of information about HT and how helpful they were (Questions 12

piloted on 5 women and further minor refinements were made as patients did not answer the questions adequately. The revised questionnaire was further Questions about the side effects and the benefits of HT were also re-done in a tick box format,

questions about source of knowledge about HT and also the women's knowledge about benefits and side effects of HT. The final questionnaire was thus different from the initial one. Significant changes involved the

#### 3.8 Data Collection

the 28th February 2010. Data collection took place in the various practices during December 2009 and continued until

collection process. receptionists were offered an incentive of a gift of chocolates or biscuits for helping in the data laminated reminders of the inclusion The receptionists were briefed on how to offer the questionnaire, and exclusion criteria for the and the researcher provided receptionists. Ŧhe

patient who fulfilled the criteria would be asked. An information letter was given to each patient before they went in for their appointment. If a patient refused, this was noted and the target age group who attended the practice. The patients were asked to fill in the questionnaire (Appendix 3). The participating doctors' receptionists approached, on a consecutive basis, all women in the next

place their questionnaires in a sealed box. Questionnaires were continued to be given out until complete confidentiality and anonymity. Both responders and non responders were asked to 40 respondents were obtained. Non responders were also recorded The letter informed the patients about the reasons for conducting the study and

with their doctor. A suggestion to this effect was included in the information letter to the patients. Should the questionnaire generate questions then the respondents were invited to discuss HT (Appendix 3).

#### 3.9 Ethical Issues

R14/49. (Appendix 1). The protocol was submitted to the Committee for Research on Human Subjects on the 27th 2006, and permission was granted to conduct this study. The clearance certificate number is

and methodology. The consent letter is attached (Appendix 2). was after the researcher had explained the purpose of the research as well as the study design Consent from each of the participating doctors' practices was obtained by the researcher. This

information on the topic. The respondents were also invited to discuss HT with their doctors anonymity. Information about HT was also offered on request for any respondent requiring more (Appendix 3). This letter explained the nature of the research, assured confidentiality and anonymous to the researcher. An information letter was The practices are known to the researcher, but the women participating in the study were attached to the questionnaire.

### 3.10 Data Analysis

knowledge of benefits and side effects was completed in Epi info. extreme values. Data was captured in Epi Info and Ms-Excel. Data cleaning was done to identify missing and Data coding included age groupings, education, occupation as well as

using chi -square tests was done to compare significant differences between the knowledge of HT and independent variables. Statistical significance was set at p=0.05 tables were used for presentation of demographic and women health data. Inferential analysis, Descriptive analysis using frequency tables (frequencies and percentages), bar graphs, and

# CHAPTER FOUR RESULTS

#### 4.1 Response Rate

were filled out correctly and were able to be coded. This gives a response rate of 80.02% 40 questionnaires were given to 14 practices. I.e. 420 questionnaires were given out and 337

the study. 25 doctors were contacted telephonically to obtain 14 doctors who were willing to be involved in

- 1 doctor was not willing to take part in the study.
- 4 doctors were no longer practicing as they had either moved or retired
- 3 doctors were not able to be contacted (after 3 attempts at telephonic contact failed).
- Meredale, and one doctor did not see women). doctors had an unsuitable patient profile for the study. (1 doctor worked at the prison in
- 1 doctor was associated with a practice that was already included in the study.

phone calls as well as visits then took place over the collection time Collection of data began in December 2009 and continued until February 28th 2010. Follow up

although it had been explained that every patient in the required age group should be asked It was intended that the questionnaires be handed out consecutively. This did not occur, The reasons it did not occur are varied:

- involved in the data collection process. Doctors had different receptionists and the questionnaire was not explained to everyone
- patients, it became evident that they forgot, or became busy, etc. Receptionist resistance. Although the receptionists had said that they would
- practices closed or worked with different staff over this period. On returning they then Some receptionists went on holiday. Collection of data began in November and some forgot, but when reminded started asking again.
- spa therapy" and despite repeated follow up only 5 forms were obtained that the doctor didn't see middle aged women. Another practice was involved in "medical numbers were never completed. Various reasons were given for this, the main one being One practice completed the study in three weeks, but in some practices

- criteria to fill in the questionnaire. study. She was able to spend time at the practices, asking the patients who fulfilled the spent 4 hours, Monday to Friday, visiting and following up the practices involved in the needed to complete the study. The researcher employed a receptionist for 3 weeks. She At the beginning of February it became evident that a more intense follow up was
- using frequencies and tables. The data was captured using Epi info and analyzed using Epi info as well as Ms- Excel,
- 374 forms were completed of which 37 were excluded due to incorrect ages.

### 4.2 Doctors' Practices

not be obtained required number of questionnaires was obtained. In 5 practices the required number could The number of returned questionnaires per practice is shown in table 4.2. In 9 practices the

Table 4.2 Doctors (N=14)

1     5     1.5       2     8     2.4       3     30     8.9       4     29     8.6       5     15     4.5       6     28     8.3       7     30     8.9       9     30     8.9       10     21     6.2       11     31     9.2       13     31     9.2       14     19     5.6       14     337     100	Doctor	No of Questionnaires	% of Total
8 30 30 15 15 28 30 30 30 30 31 31 31 31 31 337	_	5	1.5
30 29 15 28 30 30 30 31 21 31 31 19	2	8	2.4
29 15 28 30 30 30 21 21 31 31 31 19	ယ	30	8.9
15 28 30 30 30 30 21 21 31 31 30 31 19	4	29	9.8
28 30 30 30 30 21 21 31 31 39 39 19	ა	15	4.5
30 30 30 21 21 31 30 31 19	6	28	8.3
30 30 21 31 30 30 31 19	7	30	8.9
30 21 31 30 30 19	8	30	8.9
21 31 30 31 19 19	9	30	8.9
31 30 31 19 337	10	21	6.2
30 31 19 337	11	31	9.2
31 19 337	12	30	8.9
19 337	13	31	9.2
	14	19	5.6
		337	100

#### 4.3 Demographics

## 4.3.1 Age of Respondents

The respondents were asked to give their ages. The results are shown in Table 4.3.1

Table 4.3.1 Age Groups (N=337)

	:	337	Total
100.00	25.8	87	60-70
74.2	17.2	58	55-59
57.0	28.5	96	50-54
28.5	28.5	96	45 -49
%	,		Group
Cum	%	Frequency	Age

with the median being 54 years. The mean age of the respondents was 54.7 years of age. The range was 45years to 70 years

classified as peri-menopausal and in the early and late phases of menopause. The respondent's ages' were divided into 5 year groups. This enabled the respondents to be

# 4.3.2 Marital Status of Respondents

It can be seen that 66.8% (225) of the respondents were married The respondents were asked to state their marital status. The results are shown in Table 4.3.2.

Table 4.3.2 Marital Status (N=337)

Marital Status	Frequency	%
Divorced	51	15.1
Married	225	66.8
Single	26	7.7
Total	337	

# 4.3.3 Education level of Respondents

results are given in Table 4.3.3. The respondents were asked to give the last grade that they had completed at school. The

Table 4.3.3 Education Level (N=328)

Total	Other	G8	G9	G10	G11	G12	Education Level
328	16	19	6	65	21	201	Frequency
	4.9	5.8	1.8	19.8	6.4	61.3	%

question of 97.3%. Of the 337 respondents, 328 answered the question. This gives a response rate for this

anything. "trade test hair dressing", "payroll certificate", and 7 had ticked other, but had not written educated population. 9 respondents did not answer the question. The "other" category included Of the respondents, 61.3%, (201) had reached Grade 12 level. This would be considered an

### 4.3.3.1 Further Education

diploma, or other. The results are shown in Table 4.3.3.1. The respondents were asked if they had any form of further education, such as a degree,

Table 4.3.3.1 Further Education (N=337)

Tertiary Education	Frequency	%
None	205	60.8
Degree	34	10.1
Diploma	74	22.0
Other	24	7.1
Total	337	

such as "pharmaceutical courses"," insurance certificate"," book keeping". 2 respondents wrote "didn't finish university" 132(39.2%) had some form of tertiary education. The "other" category included answers

# 4.4 Current Occupation of Respondents

the time of answering the questionnaire. These were then grouped as in the table below. 4.4 illustrates the various occupations of the study population. The respondents were asked using an open ended question, to give their current occupation at

Table 4.4 Occupation Group of Respondents (N=320)

Occupation Group	Frequency	%
Admin	119	37.2
Housewife	60	18.8
Retired	37	11.6
Medical	29	9.1
Finance	26	8.1
Education	24	7.5
Entrepreneur	24	7.5
Unemployed	1	0.3
Total	320	

question of 94.9%. Of the 337 respondents, 320 answered the question. This gives a response rate for this

(60) are housewives, and 11% (37) are retired From the above results, it can be seen that 37% (119) work in administrative positions, 18%

#### 4.5 Medical Aid

practices, 73% (247) of respondents were on medical aid, and a further 5% (17) were on a Aid, a hospital plan, or neither). As can be seen in Table 4.5, of those attending private The respondents were asked if they had some form of medical insurance (being either Medical hospital plan.

Table 4.5 Medical Aid (N=332)

Medical Aid	Frequency	%
Hospital Plan	17	5.1
No Medical	68	20.5
Medical Aid	247	74.4
Total	332	

question of 98.5% Of the 337 respondents, 332 answered the question. This gives a response rate for this

#### 4.6 Women's Health

The respondents were asked a series of questions concerning women's health.

#### 4.6.1 Menstruation

The respondents were asked if they still menstruate. The results are given in table 4.6.1.1.

Table 4.6.1.1 Menstruation (N=334)

Menstruation	Frequency	%
No	288	86.2
Yes	46	13.8
Total	334	

question of 99.1%. Of the 337 respondents, 334 answered the question. This gives a response rate for this

86.2% (288) of the respondents had ceased menstruation.

are given in table 4.6.1.2. The respondents were then asked to give the reason for cessation of menstruation; the results

Table 4.6.1.2 Reason for cessation of Menstruation (N=286)

Reason	Frequency	%
Surgery	171	59.8
Natural	92	32.2
Other	12	4.2
Injection	4	1.4
Do not know	4	1.4
Radiation	3	1.0
Total	286	

given for cessation of menses is surgery in 59.8%. Of the 286 respondents answered the question, what is important to notice is that the reason

#### 4.6.2 Pap Smear

given in Table 4.6.2. The respondents were asked if they had had a pap smear in the last 5 years. The results are

Table 4.6.2 Pap smear (N=333)

Had a Pap Smear	Frequency	%
Do not know	7	2.1
No	140	42.0
Yes	186	55.9
Total	333	

question of 98.8%. Of the 337 respondents, 333 answered the question. This gives a response rate for this

From the above, it can be seen that 55% (186) had had a pap smear in the past 5 years

#### 4.6.3 HT Usage

The respondents were asked whether they had ever used HT.

The results are given in Table 4.6.3.

Table 4.6.3 HT Usage Ever (N=334)

Ever Used HT	Frequency	%
Do not know	8	2.4
No	177	53.0
Yes	149	44.6
Total	334	

question of 99.1% Of the 337 respondents, 334 answered the question. This gives a response rate for this

44.6% (149) had used HT at some stage in their lives.

## 4.6.4 Reasons for not using HT

question. The results are given in Table 4.6.4 below. The respondents were asked to give their reasons for not using HT by means of an open-ended

Table 4.6.4 Reasons for not using HT (N=101)

Reasons why not used	Frequency	%
No Symptoms	62	61.3
Medical Reason	14	13.8
Perceived side effects from HT	14	13.8
Do not Know	6	5.9
Other	5	4.9
Total	101	

reason why they had not used HT. This gives a response rate for this question of 57.0% Of the 177 respondents who had never used HT, 101 answered the next question giving the

perception of a side effect of HT, for example that it would make her gain weight. clotting disorders, or heart disease. In 13% (14) the reason was because the patient had a was that they were asymptomatic. Of the 101 respondents who answered the question, the most common reason given (61%, 62) In 13% (14) a medical reason was given, for example

4 of the "others", answered that, "they didn't know about HT" or had not heard about it" and 1 other wrote that "it was not available"

## 4.6.5 Reasons for using HT

are given in Table 4.6.5. If the respondents had answered 'yes' to using HT, they were then asked to give their reasons by means of an open ended question, and the responses were grouped together. The results

Table 4.6.5 Reasons for using HT (N=130)

Reasons why HT was used	Frequency	%
Hot Flushes	47	36.7
Other Menopausal Symptoms	25	19.2
After Hysterectomy	25	19.2
Dr's Recommendation	19	14.6
Other	14	10.7
Total	130	

rate for this question of 87.2%. Of the 149 respondents who had used HT, 130 answered the question. This gives a response

symptoms (25)being for other menopausal-related symptoms, for example, mood changes or genitourinary for using HT was for symptom relief, the commonest being hot flushes, (36.7% 47), with 19.2% Of the 130 respondents who had used HT and answered the question, the main reason given

"ten years", "did not like myself", "2002", "30 years" "1980","Diane for acne", "Dec 2008", "49". 10.7%(14) were classified as "other" answers and these included answers such as "don't know",

### 4.6.6 Current HT Usage

currently using HT. Table 4.6.6 compares those who have used HT at some point in their lives with those who are

Table 4.6.6 Current HT Usage(N=337)

24.6	83	Those still using HT
44.2	149	Those who have used HT
%	Frequency	Those who have used HT and those still using HT   Frequency

currently using HT is less at 24.6%.(83). Table 4.6.6 shows that while 44% (149) have used HT at some time in their lives, those

## 4.6.7 Which HT is being used

results can be seen below, in table 4.6.7 The respondents were then asked to state which form of HT they were currently using. The

Table 4.6.7 HT drugs being used (N=84)

HT drugs used	Frequency	%
Estrogen	53	63.1
Estrogen + Progesterone	19	22.6
Other	4	4.7
Alternative medication	8	9.5
Total	84	

used. This gives a response rate for this question of 56.3% Of the 149 respondents that have used HT, 84 answered the question as to which drug they

estrogen, progesterone or tibilone example Estrofem or Premarin. The researcher changed this to the active ingredient which was The respondents were asked which HT they were using, and then gave trade names, for

The 8 "alternative medication" included vitamins, Black Cohosh, and Evening of Primrose Oil

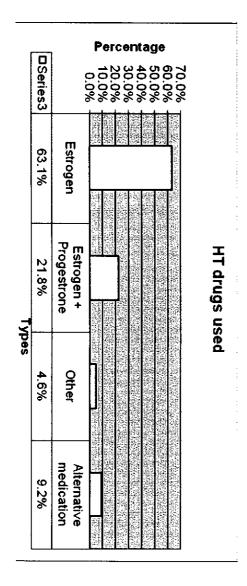


Figure 4.6.7 HT drugs used

## 4.6.8 Length of HT Usage

If the respondents were using HT, they were then asked how long they had been taking HT. The results can be found in Figure 4.6.8.

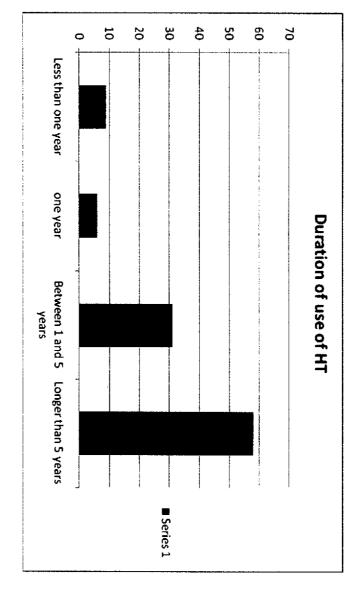


Figure 4.6.8 Length of time on HT (N=104)

Of the 149 respondents who had used HT, 104 answered the question about length of usage of HT. This gives a response rate for this question of 69.7%.

using HT for longer than 5 years. Of the 104 respondents who answered the question, it can be seen that 55.8% (58) have been

# 4.6.9 Length of time using HT before stopping

had used HT before stopping. The results are given in Table 4.6.9 below. The respondents who had used HT, but were no longer using it, were then asked how long they

Table 4.6.9 Length of time before stopping HT (N=64)

Time before stopping	Frequency	%
Less than 1 year	9	14.0
l year	8	12.5
Between 1 and 5 years	19	29.7
Longer than 5 years	28	43.7
Total	64	

of use. This gives a response rate for this question of 96.9%. Of the 66 respondents who had used HT and stopped, 64 answered the question about duration

The majority of respondents (71%, 46) had used HT for longer than a year.

## 4.7 Natural or Homeopathic Remedies

of menopausal symptoms. The results are shown in Table 4.7. Respondents were asked whether they had ever used natural remedies (CAM) for the treatment

Table 4.7 Usage of Natural Remedies (N=326)

Use of Natural remedy	Frequency	%
Respondent has used natural remedies	79	24.2
Respondents that had NOT use natural remedies	247	75.7
Total	326	

symptoms 247 (75.7%) of the respondents had not used natural remedies for the treatment of menopausal

# 4.7.1 Which Natural Remedies are being used

symptoms, were asked an open-ended question about which remedies they had used. Those who responded positively to using natural remedies for the use of menopausal

The results have been tabulated in table 4.7.1.

Table 4.7.1 Other remedies (N=53)

Natural Remedies used	Frequency	%
Natural remedy	38	71.6
Vitamins	10	18.8
Medical	5	9.4
Total	53	·

remedy they had used. This gives a response rate for this question of 67.0%. Of the 79 respondents who had used natural remedies, 53 answered the question about which

Oil, Femolene, Menoclove, and Menoclove Forte, Menograine, Milk Thistle, Phyto soya, conventional HT. 48% (38) had used medications including, Bach flower, Evening of Primrose Starflower oil and St Johns wort. 12% (10) indicated the use of vitamins, and 6% (5) had actually referred to the use of

## 4.8 Source of information about HT

Objective 3 of the study was to find out the source of the respondents' knowledge about HT. The question was asked in a tick box format. The results are tabulated below in Table 4.8.

Table 4.8 Source of information about HT (N=237)

Sources of information	Frequency	%
Doctor or Nurse	143	60.3
Magazines	81	34.1
Friends	51	21.5
Books	38	16.0
Pharmacy	25	10.5
Television	25	10.5
Relatives	24	10.1
Internet	21	8.8
Homeopath	14	5.9
Radio	10	4.2
Newspaper	6	2.5
Other	ဒ	1.2

question of 70.3%. Respondents could tick more than one box. Of the 337 respondents, 237 answered the question. This gives a response rate for this

radio and the newspaper. significant source of their knowledge about HT. respondents who answered the question indicated that doctors or nurses were the most The important fact to note in this question, as shown in Table 4.17, is that 60% (143) of the The least important source of information was

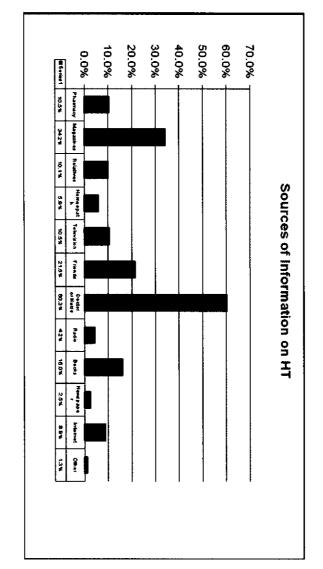


Figure 4.8 Sources of Information on HT

### 4.9 Consultation with GP

found in Table 4.9. The respondents were asked if they had spoken to their GP about HT. The results can be

Table 4.9 Consultation with GP (N=328)

Talked to GP about HT	Frequency	%
Yes	148	45.1
No	180	54.8
Total	328	

question of 97.3%. Of the 337 respondents, 328 answered the question. This gives a response rate for this

about HT. Table 4.9 shows that only 45.1%(148) of respondents had talked to their general practitioners

# Consultation with another doctor e.g. gynecologist

gynecologist. The results can be found in table 4.10 below. The question asked if the respondents had talked about HT with another doctor e.g.

Table 4.10 Consultation with another doctor (N=327)

	- (1	
58.7 -	100	Z
7.14	100	Tes
217	725	Voc
су %	Frequency	Talked to another doctor

question of 97.0% Of the 337 respondents, 327 answered the question. This gives a response rate for this

gynecologist) about HT. Of the 327 respondents who answered the question, 41.2% had talked to another doctor (e.g.

### 4.11 Benefits of HT

was asked in a tick box format. The results of this question are tabulated in table 4.11 below Objective 2 was to find out about respondents' knowledge of the benefits of HT. The question

Table 4.11 Benefits of HT (N=245)

BENEFITS of using HT	Frequency	%
Relieves hot flushes	217	88.5
Decreased night sweats	171	69.7
Better moods	139	56.7
Makes bones stronger	85	34.6
Prevents breast cancer*	24	9.7
Increases sex drive	24	9.7
Prevents bladder infections	18	7.3
Causes weight loss*	17	6.9
Others	6	2.4
Respondents that ticked at least 1 box	245	

ticking all available answers. " Indicates test answer that is incorrect, i.e.. This is not a benefit. These were added to prevent people from

response rate for this question of 72.7%. Of the 337 respondents, 245 answered the question (ticked at least one box) This gives a

knowledge of the main benefits is good (171) aware that HT decreases the incidence of night sweats. In this study population the makes bones stronger and 41% (139) are aware that HT improves mood, with a further 69.7% 217 respondents (88.5.%) indicated that HT relieves hot flushes and 34.6% (85) knew that HT

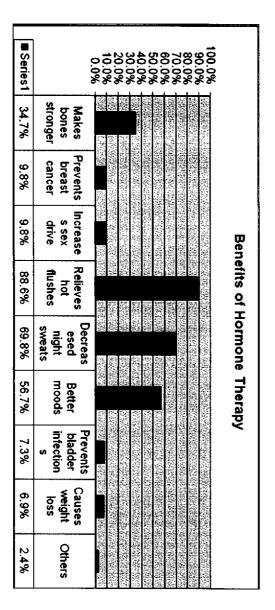


Figure 4.11 Benefits of Hormone Therapy

## 12 Side Effects of HT.

4.12 shows the results of this question In an identical way the question was asked about side effects of HT. The following table, Table

Table 4.12 Side Effects of HT (N=212)

Side Effects of using HT	Frequency	%
Weight gain	112	52.8
Causes Breast cancer	77	36.3
Headaches	68	32.0
Breast Tenderness	59	27.8
Leg clots	50	23.5
Dry Vagina*	49	23.1
Hair loss*	33	15.5
Others	25	11.7
Irregular period	17	8.0
Skin problems*	14	6.6
Respondents ticked at least 1	212	

from ticking all available answers. " Indicates test answer that is incorrect. i.e., These are not side effects. These were added to prevent people

response rate for this question of 62.9% Of the 337 respondents, 212 answered the question (ticked at least one box). This gives a

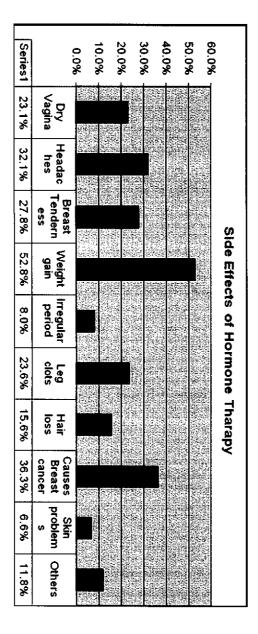


Figure 4.12 Side Effects of Hormone Therapy

# 4.13 Different age groups versus knowledge of HT

benefits of HT. The following graph shows a comparison between different age groups versus knowledge about

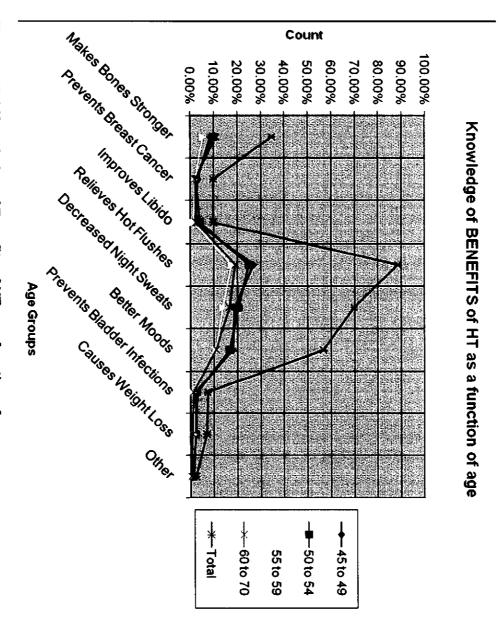


Figure 4.13.1 Knowledge of Benefits of HT as a function of age

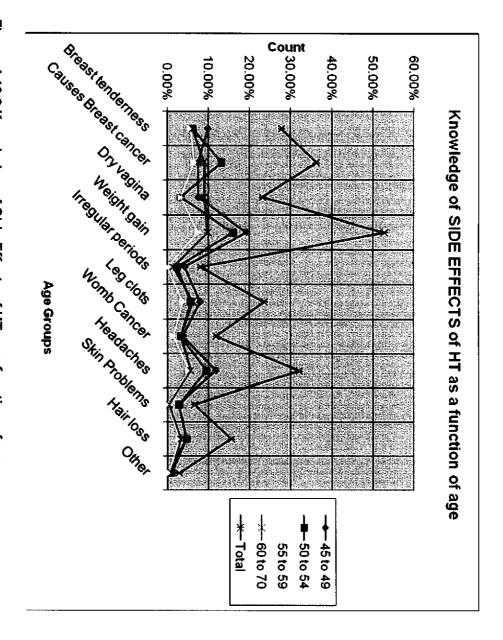


Figure 4.13.2 Knowledge of Side Effects of HT as a function of age

## 4.14 Further Data Analysis

For further cross tabulations to be done the following statistical manipulation was followed:

following algorithm was used To ascertain whether the respondent had any knowledge of HT, benefits or side effects the

or greater, then it was determined that the respondent had some knowledge of either benefits or incorrect answers were given minus1 point. If the sum of the respondents knowledge was one side effects of HT. The respondent's answers were scrutinized. The correct answers were given one point, any

different variables. side effects of HT. These were then used to see if significant differences occurred across 245 respondents knew at least one or more benefits of HT, and 212 knew at least one or more

# Knowledge of HT across some of the Independent Variables

some of the independent variables. The following table 4.15.1 shows the relationship between knowledge of benefits of HT across

Table 4.15.1 Table of Knowledge of Benefits of HT across some Independent variables

				Chi	ס	
independent Variable		+		Square	Value	Source
Peri-menopausal women (45-50 yrs) vs.	+	68	28	200	0 000	Ougation 1
menopausal & post menopausal(50-70 yrs)	•	171	70	0.00	706.0	Caesiloi -
Those who have an education beyond Grade	+	91	41	2 15	2	O costion 4
12	•	144	55	0.40	0.201	Cuestion 4
These who are an a modified aid	+	172	75	0 7/	288	O lostion 6
THOSE WITO ALE OIL A ILIEUICAI AIG	_	51	17	4	0.000	e destion o
Those who are still monetageting	+	29	17	1 75	7007	Operation 7
Those who are suit mensurating	•	209	79	1.70	0.007	Caesioi i
Those that have had a pap smear(i.e.	+	136	50	) ၁	0 631	Ouestion 0
Gynecological check up)	1	99	41	0.20	0.001	Guestiona
Those who have used Homeso Thomeso	+	109	68	၁ ၁ ၁	\ 001*	Ouncetions
Hose wito have used Hollione Hielapy	1	126	23	21.23	0.00	Questionio
Those currently using Homes Thomes	+	75	9	200	0 010*	Ounstion 13
Those currently using normone inerapy	ı	52	16	4.4	0.010	Quesilonio
Those who have used pateral remodice	+	58	21	200	782	Ouestion 17
THOSE WHO HAVE USED HATURAL FILLECTES	,	177	70	0.00	0.000	Question
There who have analyze to a CB about UT	+	127	21	36 63	\ 0 0 1 1 1	Ounstionson
Those who have spoker to a Gr about hi	,	108	72	20.03	70.00	Questionizo
Those who have spoken to a gynecologist	+	114	21	19 75	\ 0 001*	Operionsi
about HT.	•	120	72	0.70	0.00	Canesiloniz

as well as those who have spoken to either a GP or a gynecologist. Marked with an \* There is an association between knowledge of the benefits of HT and those who are using HT

independent variables. Table 4.15.2 shows the relationship between knowledge of side of HT across some of the

Table 4.15.2 Table of Knowledge of Side Effects of HT across some independent variables

			2	•	
			_	•	Source
	+	•	Square	Value	ocurce
+	57	39	ر د د	0 366	O mostion 1
•	127	114	1.24	0.200	Question
+	81	51	3 60	200*	Omation
•	101	86	0.00	620.0	Question 4
+	142	122	0 20	0 500	Ouastian 6
•	39	29	0.20	0.080	Question o
+	25	21	0 00	0 473	Ouastian 7
-	158	130	0.00	0.473	Question /
+	105	81	0 43	0 5 10	O lostion o
ı	74	66	0.42	0.010	Guestions
+	88	89	4 75	200	Ougstion
ı	92	57	4.72	0.023	Questionio
+	50	34	0 70	0 202	O Location 13
-	45	23	0.70	0.203	Cuestion
+	44	35	000	0 400	Ougstion 17
-	138	109	0.00	0.400	Cuestion
+	91	57	<i>1</i> 75	0 044*	Ouestienson
•	89	91	4.70	0.0	Cansions
+	87	48	7 60	0 000*	Ouestiens
	94	98	7.00	0.002	(Auganoliz
			57 127 127 81 101 142 39 25 158 105 74 45 45 45 45 91 91 91	57 39 127 114 81 51 101 98 142 122 39 29 25 21 158 130 105 81 74 66 88 89 92 57 50 34 44 35 138 109 91 57 89 91 87 48 94 98	57 39 1.24 127 114 3.60 101 98 3.60 1142 122 0.28 39 29 0.28 39 29 0.00 158 130 0.00 158 81 0.42 74 66 89 4.72 92 57 4.75 88 89 91 4.75 89 91 57 4.75 89 91 7.69

another doctor, for example a gynecologist. education above Grade 12, those using HT as well as those who have spoken to either a GP or There is an association between the knowledge of the side effects of HT and those who have an

## CHAPTER FIVE DISCUSSION

as a family doctor. menopausal women in the southern suburbs of Johannesburg, where the researcher practices The aim of this study was to determine the knowledge and practice of HT amongst peri and post

#### 5.1 Response Rate

to the respondent (in this case, their doctor's receptionist). topic for women. It could also reflect an increase in willingness when asked by a person known This study achieved a good response rate (80%), possibly indicating that this is still a relevant

included were administrative Most doctors that were approached agreed to be involved in the study, with only one refusal. Twenty-five doctors were approached to obtain 14 practices; the reasons for doctors not being

requiring a yes/no answer. demographic questions were completed by almost every respondent, as were the questions The questionnaire was completed to varying degrees, as shown in the results section. The

that these questions were more complex and respondents were deterred by this section, the question about which HT Therapy were being used was only answered respondents had not used HT. A possible explanation for this reduced response rate might be Questions that were open-ended had the poorest response rates. In the women's health respondents. A similar response rate of 57% was obtained for the question asking why by 56% of

which HT therapies were being used would be to give a list of the possible HT therapies on the One possible solution that would have improved the response rate for the question relating to

effects of HT, it may be due to the design of the questionnaire, time constraints or other factors. assume that those who did not answer the question knew nothing about the benefits and side of HT were 72% and 62% respectively. This is a reasonable response rate, although one cannot The response rates for the questions referring to knowledge of benefits of HT, and side effects

#### 5.2 Demographics

about HT. There was no literature supporting this hypothesis and the researcher found no intercourse, decreased libido might be a factor in causing a patient to acquire more knowledge association between those who were married and those who were not. The researcher thought that marriage might be a factor, as at menopause, painful sexual In this study, no association was found between age, marital status and knowledge about HT.

than peri-menopausal women. women who were post-menopausal had a more positive attitude toward the general use of HT more negative view to a more positive one concerning HT usage. Lindh-Astrand, 18 showed that Some studies<sup>23</sup> have shown that as a woman enters menopause, her attitude changes from a

issues relating to menopause and HT remained low in the educated group of his study as well. information due to better access to resources.2 even among educated women, although women with better education are more likely to obtain level impacts positively on knowledge of menopause, although overall knowledge of specific education and knowledge of side effects. (p=0.029). Maharaj<sup>26</sup> showed that a higher education knowledge about benefits of HT (p=0.251), although there was an association between this study, there was no association between those who had education beyond Grade 12 and The level of education in this population is high, with everyone obtaining at least Grade eight. In could also be due (as said previously) to the young age group (18-40 years) of Maharajs' Akong<sup>26</sup> also showed low awareness of menopausal information and therapeutic options

means of treating menopausal symptoms is still low. 15,35 treatments and the related controversies may contribute to the fact that HT utilization as a Although educated women are more aware of the existence of HT, the complex nature of HT

to engage in meaningful discussion and to ensure judicious use of HT. Adequate knowledge and understanding of menopause and HT is necessary to enable women

medical aid. This could reflect a lack of confidence or distrust in the public health system, and health care setting. 20% are still choosing to use private health care despite not being on a S to medical aid. This is an economically advantaged population group, with 80% of this as expected, because the study was undertaken in population having

benefits and side effects of HT and those on medical aid could be the subject of further research. There was no association between knowledge of

#### 5.3 Women's Health

hysterectomy. In this study, there was no association between knowledge of HT and those who would be more easily raised. 42% had not had a pap smear in the last 5 years, indicating a GP, gynaecologist, or primary care nurse is an important opportunity for education about had or had not had a gynaecological checkup. the low rate of pap smears could be due to the fact that many of the women (59%) had had a possible missed opportunities for a discussion on menopausal issues. One possible reason for indicates contact with the health system, specifically where questions relating to women's health Respondents were asked whether they had had a pap smear in the past 5 years. This question menopause and treatment options The gynaecological check up, whether done by

Regarding onset of menopause, only 32% had gone through natural menopause, with 59% having had surgery.

hysterectomy was 22.2%.<sup>37</sup> no statistics were available. In South Australia, reported a 27.9% hysterectomy rate, The researcher attempted to find out the prevalence rate of hysterectomy for South Africa, but Australia. obtained from a In a study of 17735 participants, in Ireland, it was found that the prevalence of cluster sample of 4608 households in metropolitan and rural South

not necessarily menopausal women, as we did not establish when these hysterectomies were due to true disease prevalence or the hysterectomy rate may be due to over servicing of women In this study the hysterectomy rate is 59%, which could be further researched, to see if this is

## 5.4 Usage of HT in this study

the developed countries (USA and Europe),9 than in the underdeveloped world (Karachi,2 study the current usage was 25% with an ever user rate of 42%. has significant benefits in post-menopausal women, yet rates of HT usage are low. In this This is more in comparison to

and the availability of HT was exceedingly low (with the exception of Bangkok<sup>31</sup>). Ecuador<sup>23</sup> and South Africa's rural populations 16), where lack of knowledge about menopause

inadequate advice from their health care providers, which will be discussed further. awareness about long term implications of menopause among women may result in low HT socioeconomically advantaged and educated, still struggles with the complexities. issues around HT usage are complex, and the average woman, even though she may be of HT usage is low. Malik<sup>2</sup> Even though this population is a well educated, well resourced middle class population the level Another reason for not having adequate knowledge and therefore not using HT is due to suggests that knowledge of HT is a key predictor of HT use.

treated very adequately with HT. reason they did not use HT was that they were asymptomatic, yet Guidozzi<sup>3</sup> and Fredericks<sup>16</sup> Of those who had not used HT, the most common reason given was that the respondents were asymptomatic. reported that up to 80% of women will experience menopausal symptoms that can be In Leon-Leon's<sup>23</sup> study in Equador, 49% of women also responded that the

used it after hysterectomy, (which is probably due to a doctor's recommendation). In this study, those who used HT, symptoms. 15% gave doctors recommendation as a reason for use and a further 19% said 55.9% of the respondents used HT for menopausal they

gain, or nausea. Another possible reason may be the respondents' age or due to patients experiencing side effects from HT, for example breast tenderness, weight to see if the stoppage was due to the influence on doctors by the publication of the WHI study, reason why respondents had stopped using HT was not asked. It would have been interesting than 5 years. For those who had stopped, 43% had used HT for more than five years. Regarding length of time of HT usage, 55.8% of those using HT had been using HT for more

respondents have had a hysterectorny and therefore only require estrogen. The most frequent form of HT used is estrogen alone. This is in keeping with the fact that 59%

# 5.5 Use of Complementary or Alternative Remedies (CAM)

those who had, or were using CAM and knowledge of benefits and side effects of HT 24% of respondents have used CAM for HT. In this study no association was found between

interactions becomes a possibility, and monitoring of drug and CAM use should be an important mixed and there is concern over liver problems.38 market, as well as the research into efficacy as well as potential side effects. For example, aspect of ongoing patient care. She noted in her study that health care providers only asked about CAM use in 25% of cases health care providers ask about the use of CAM products as part of their routine assessment With the concurrent use of CAM and other pharmaceutical drugs, the potential for drug-herb conjunction with conventional HT, most often without consultation. It is therefore important that in her study that a perceptions of menopause and the different treatment options. Patching van der Sluijs<sup>33</sup> showed S Cohosh is used extensively in Germany for hot flushes. However results of RCT's an opportunity for the doctor to enter into discussions with patients about their significant proportion of respondents may be using CAM products in Doctors also need to be aware of the various CAM's on the

regularly in the various forms of the media, possibly causing increased awareness. There is also Articles and information about the use of CAMs for menopausal symptoms are appearing more perception among the public that natural products do not have side effects. 33

## 5.6 Source of Knowledge about HT

adequate evidence based information so that their patients can make informed choices. Leonanswered the question said that doctors and nurses were. Magazines(34%) and friends(21%) This highlights again how important it is for doctors and other health care providers to provide were considered the next most helpful. Least helpful was the radio and the newspaper(2.6%). In this study, when asked which source of information was the most helpful, 60% of those who also found a similar finding that physicians were the main source of information about

(52%) and friends (44%), and Baig<sup>27</sup> also found that in Pakistan, source of knowledge was from However, Maharj<sup>26</sup> in his study found most women had received their knowledge from family relatives (35%) and friends/neighbours (34%) with health-care providers respondents. in only 14% of

health care personnel. His study sample was from a postal questionnaire to all women 53-54 years of age in a Swedish community, whereas Hoffman<sup>12</sup> showed in his study that the media was a more frequent source of information than the researcher's study was conducted on

more open to information from the medical profession than another set of respondents patients are already utilizing conventional medicine, which might suggest that they would be patients sitting in their doctor's waiting rooms, which then could introduce bias, because these

## 5.7 Discussions with Doctors about HT

or gynaecologist respectively, those who had consulted a doctor had more knowledge about HT than any other group.(p<0.001). The most important finding in this study is that although only 45% and 41% had spoken to a

Other studies<sup>25,26</sup> have also showed that patients are not discussing menopause or HT with their

HT and thus seek treatment.<sup>25</sup> Yet, in this study less than half had discussed HT with either their group who have medical aid. Well-educated women may be more likely to read articles questionnaires, or due to the fact that they are already in a doctor's office, thereby introducing health care providers as the most helpful source. This may be due to misunderstanding the HT, have more substantial discussions with their doctors about the risks and benefits of using The population of this study is a well-educated, well-resourced, majority married their gynecologist, although when asked about source of knowledge, 60% still gave (66%), stable

administration and dosing, and who better to advise patients than well-informed, trusted family controversies surrounding HT. The benefit and risk profile of HT varies greatly depending on the risk benefit balance of HT. Health care providers need to be up to date with the issues and negatively and this apprehension was made worse by health care providers' apprehension of providers, and Lindh-Astrand 18 showed that whereas women's attitudes towards previous studies, Maharaj<sup>26</sup> showed that women received little information from health care evidenced based knowledge) information about HT. This is especially important in this age of the timing of had not changed (over the turn of the century), women's attitudes towards HT had changed information, as medical information is more readily available, and is easily misunderstood. In Family doctors need to be its initiation, the kind of estrogen or progesterone used aware of the importance of providing adequate and their route (up to menopause

their doctors According to Malik<sup>2</sup> and others<sup>25</sup> 75% of non users would consider using HT if recommended by

regarding menopause and HT, in order to give optimal information and support to the individual It is important that health care providers understand women's attitudes and expectations

doctor and knowledge about HT. In this study there was an association (p,<0.001) between those who had discussed HT with a

# 5.8 Knowledge of Benefits and Side Effects of HT

about side effects, the knowledge presented is still reasonable benefits of HT, and 125 respondents out of the total sample of 337 did not answer the question Although 100 respondents out of the total sample of 337 did not answer the question about

overall patients are aware of the benefits of HT. mood swings and 34.6% knew about the prevention of osteoporosis. It can be concluded that aware that HT decreases the incidence of night sweats, there was also 41% also knew about Of those who answered the question, 88.5% knew that HT relieves hot flushes,

by the usage of HT. individual patient, ie that weight gain at the time of menopause is normal and will not be affected experienced at menopause. This is an issue that the family doctor needs to discuss with the that HT will have an effect on body weight additional to that normally gained at the time of with major menopausal symptoms than risk weight gain. The review of trials found no evidence conscious, and although the perceived weight gain is small, many patients would rather struggle review shows that HT has no effect on body weight.39 side effects, rather than based on evidence. As has been discussed in the literature review, the effect. Breast cancer risk was also reported in 36.3%. Both of these side effects are perceived The most common side effect of HT noted was weight gain; with 52.8% identifying this breast cancer is negligible in the first five years of HT usage,<sup>20</sup> and the Cochrane Library The review also did not find any evidence that HT prevents Today, women are very weight

doctor or health care provider to engage in discussions about personal benefits and the risks of This population is aware of some of the benefits and side effects of HT, and this enables the

would have been strengthened if questions about menopause had been included limitation of this study was that knowledge about menopause itself was assumed, and the study long term implications of menopause among women may add to the low HT usage rate. A HT and thus offer treatment in the form of HT if it is appropriate. Lack of awareness about the

problems experienced by menopausal women, namely hot flushes, night sweats, mood Patients did know about benefits of HT with the greatest knowledge being for the most common improvement and prevention of osteoporosis.

## 5.9 Limitations of and bias of the Study

- $\Rightarrow$ therefore this study cannot be generalized to include other population groups in South carried out in private practice settings with the majority of patients on medical aids, and The study population assumes a certain level of socioeconomic status, as the study was
- $\mathcal{N}$ This study was to determine knowledge and practice about HT, and not menopause itself. that they are probably not as informed as expected. the issues of menopause, after this study; however, the researcher came to the realization is the researcher's impression from discussions with her patients that patients are aware of Perhaps a study focused on menopause itself should have preceded this study. However, it
- ယ Obtaining data from especially regarding the high hysterectomy rate. researcher was aware that certain questions could have been asked in a clearer format, or ۵ qualitative a questionnaire is limited. study design would have After the study was completed, given more complete the

## CHAPTER SIX **RECOMMENDATIONS & CONCLUSION**

#### 6.1 Recommendations

- Information imparted by doctors to their patients is highly valued by their patients and efficacy, in order to enter into to be able to enter into meaningful discussions with also need to be aware of the alternative medications that are available, and evidence of patients so that they can assist women to make appropriate decisions about HT. Doctors guidelines, doctors need to be aware of this. Therefore, doctors need to be up to date with the latest and they need to be able to enter into meaningful discussions with their
- 7 Doctors need to be aware that less than 50% of patients are having discussions about should initiate discussions about menopause for women above the age of 45 years also to health promotion and the modification of health seeking behavior. Family doctors consultative process should include not only attention to the presenting problem, but on the doctor to initiate the discussion. According to Stott's model of the consultation, the menopause and HT with their GPs or other doctors, and that the responsibility should be
- $\omega$ Education strategies for health care workers, for example, workshops, lectures and controversies still exist, so that doctors can fulfill the first recommendation academic CMEs are necessary for doctors working in the community. Academic departments and societies have മ <u>role</u> ಠ play in promoting consensus opinions where
- 4 Further research into the prevalence of hysterectomy in documented. The reasons for the hysterectomy prevalence rate in this population could be explored in a further study. South Africa needs þ
- 5 To obtain a deeper understanding of women's attitudes toward and knowledge HT, a qualitative approach could be useful as a complement to quantitative studies

#### 6.2 Conclusion

than those who have not. Women's knowledge about HT was found to be reasonable with have talked to their doctors know significantly more about the benefits and side effects of HT studied. Only 40% of the patients are talking to their doctors about HT, and yet the patients who in her geographical area see. The study also documented the usage of HT in the population regard to hot flushes, night sweats and osteoporosis. This study documented the demographics of the patients that the researcher and other doctors

ask patients about CAM usage, not only for menopausal symptoms, but in relation to any CAM medication, for example the use of St John's wort for depression. 24% of the respondents have used natural remedies, and doctors need to be aware of this and

informed health decisions, which may result in improvement in quality of life in both the short from health care providers as well as the various forms of the media so that women can make management of symptoms and the long term risks associated with menopause. This should be Better health education about menopause and the use of HT is needed regarding the short term and long term.

#### **Appendices**

Appendix 1 Ethics clearance

Appendix 2 Doctors Consent Letter

Appendix 3 Patient information letter

Appendix 5 Questionnaire

## Appendix 1 Ethics clearance

# UNIVERSITY OF THE WITWATERSRAND, JOHANNESBURG

Division of the Deputy Registrar (Research)

HUMAN RESEARCH ETHICS COMMITTEE (MEDICAL)
R14/49 Plant

CLEARANCE CERTIFICATE

PROJECT

PROTOCOL NUMBER M060809

Pre and Post Menopausal Women in the Southern Suburbs of JHB.... The Knowledge and Practice of

INVESTIGATORS

Dr CM Plant

DEPARTMENT

Dept of Family Medicine

DATE CONSIDERED

DECISION OF THE COMMITTEE\* issued)

Approved unconditionally (Duplicate certificate

Unless otherwise specified this ethical clearance is valid for 5 years and may be renewed upon application.

DATE

CHAIRPERSON

histan

(Professor P E Cleaton Jones)

\*Guidelines for written 'informed consent' attached where applicable

cc: Supervisor:

Dr A Wright

## DECLARATION OF INVESTIGATOR(S)

To be completed in duplicate and ONE COPY returned to the Secretary at Room 10005, 10th Floor, Senate House, University.

Senate House, University.

I/We fully understand the conditions under which I am/we are authorized to carry out the abovementioned research and I/we guarantee to ensure compliance with these conditions. Should any departure to be contemplated from the research procedure as approved I/we undertake to resubmit the protocol to the Committee. I agree to a completion of a yearly progress report.

PLEASE QUOTE THE PROTOCOL NUMBER IN ALL ENQUIRIES

## Appendix 2 Doctors Consent Letter

## Information letter for Doctors:

Dear doctor

this degree I am conducting a research project about patients' knowledge, and practice about Hormone I am a doctor working in private GP practice. I am studying for a master's degree in Family Medicine. For Therapy for the treatment of menopausal symptoms.

Netcare Directory for Mulbarton hospital. Your practice has been randomly selected to participate in this study from a list of doctors listed in the

anonymous and confidential. receptionists and explaining in detail about the questionnaire. Patients' personal information will be As discussed over the telephone, the participation of your practice is voluntary. I will be liaising with your

generate standard questions from your patients about HT. The questionnaire that I am asking the patient's to complete is attached for your perusal. This may

consent for this. If you agree to your practice being involved in the study, please sign at the bottom of this page giving

When completed, I will make the results of this study available to you on request. If you have any questions about Hormone Therapy or any aspect of the research please do not hesitate to contact me

Thank you for your time and assistance.

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	Human Research Ethics Committee: 011 717 1234.

Dr Christine Plant

Signature:	Name:	Address:	Practice Details:
	Date:		

# Appendix 3 Patient information letter

Dear Patient,

appropriately to you as a patient. study, as doctors we may have a better understanding of women's needs and can respond more progesterone. More recently the term Hormone Therapy is used instead. With the results of this for the treatment of menopausal symptoms in women. This can be estrogen alone or estrogen with aged 45 years and older. Hormone Replacement Therapy refers to the use of the female hormones doing a research project. I am conducting a study about Hormone Replacement Therapy in women of the Witwatersrand completing a master's degree in Family Medicine. Part of the studying involves I am a 49 year old female doctor, working in private GP practice. I am also studying at the University

complete. The questionnaire cannot be taken home or completed after seeing the doctor have to wait longer to see your doctor. The questionnaire is quite short and should not take long to complete the enclosed questionnaire and place in the box provided. You will not lose your place, or If you are a woman aged between 45 and 70 years and would like to participate in the study please

and go on to the next question. participate and feel uncomfortable about any of the questions asked, please feel free to leave it out is not required and that I cannot identify you from the questionnaire. If you have decided to You are assured that all the information is confidential and anonymous. This means that your name

wish to participate place in the box provided. Please note that your care in this practice will not be affected if you do not Should you not wish to participate (but I do hope that you will) please fold the questionnaire

hesitate to discuss them with your doctor or collect a pamphlet from the receptionist If you have any questions about Hormone Therapy after completing the questionnaire please do not

The results of this study, when completed, will be made available to you by your doctor on request.

Thank you for your time and assistance.

Dr Christine Plant

Human Research Ethics Committee: 011 717 1234

## Appendix 5 Questionnaire

	More than 5 years	L	1 to 5 years	1 year	Less than one year
I	п.		n n		
				ormone Therapy?	15) How Long have you been using Hormone Therapy?
		į			14) If YES Which one are you using?
	Ü	s uno	□Yes	one Therapy?	13) Are you CURRENTLY using Hormone Therapy?
	:		:		
				tarted using it?	12) If YES, Please explain why you started using it?
			question 17	uestion 10 GO TO	If you answered IHO to question 10 GO TO question 17
			formone Therapy	xı have <b>not used H</b>	11) If NO Please explain why you have not used Hormone Therapy
	□ Don't know	<b>8</b>	<u>8</u>	s erepy?	10) Have you EVER used Hormone Therapy?
	□ Don't lenow	<b>- - - - - - - - - -</b>	<b>₽</b>	st 5 years? s	9) Have you had a pap smear in the last 5 years?
				Unknown	
			ole contraceptive	☐ Due to an injectable contraceptive☐ Other: Please explain	
	valofthe wormloj)	terectomy (remo	ior example a hys or chemotherapy	☐ Due to surgery (for exemple a hysterectomy [removal of the womb]) ☐ Due to radiation or chemotherapy	
					8) If #10 did your periods stop:
			8 0	☐ Yes	7) Do you still get your periods?
	salth.	ut womens he	g questions abo	ire I will be asking	in the next part of the questionnaire I will be asking questions about womens health
	□ Hospitel Pten	<u> </u>	8	4	6) Do you have a medical aid?
					S) What is your current occupation? Please state
				explain)	□ Other (please explain)
				specify	□ Diploma
			»)	(tick appropriate by pecify)	4) Do you have any further education? (lick appropriate box)  O No  O Yes (Please specify)
			ਤ: 	Other (please explain)	
	Std 10	Stol 9	Std 8	Std 7	Std 6
Other	Grade 12	Grade 11	Grade 10	Grade 9	Grade 8
			<del>당</del>	ou passed at schoo	3) What was the last grade/standard you passed at school?
			explain)	Other (please explain)	
Other	Divorced	Widowed	Single	Married	2) Are you (tick appropriate box)
					1) How old are you?
		ere.	j about who you	eil me something	The first few questions will tell me something about who you are.
				herapy.	refered to as Hormone Replacement Therapy.
		par par	ı might have heard	Therapy (HT). You	This questionnaire is all about Hormone Therapy (HT). You might have heard it

	<ol> <li>If you stopped using Hormone Therapy.</li> <li>How long did you take Hormone Therapy before stopping</li> </ol>	
В.		

	ess than one year	1 wear	1 to ≤ weers	More than 5 years	
	b) Why did you stop using Hormone Therapy? Please explain	Hormone Therapy?			
	-				
3	Have you ever used a natural remedy, eg. Blac menopause? eg. hot flushes, depression, etc.	al remedy, eg. Black Coho: es. depression, efc.	17) Have you ever used a natural remedy, eg. Black Cohosh, vitamins, etc. for symptoms of menopause? eq. hot flushes, depression, etc.	ms of	
	□Yes □No	sa, depiression, etc.			
<u> </u>	18)If YES which have you used? (You can name more than one)	? (You can name more the	an one)		
9	Which of the following has been helpful in telling you about Hormone Therapy?	been helpful in telling you	about Hormone Therapy?		
	You can tick more than one box.	box.			
	□ Pharmacy	☐ Homeopath	□ Doctor or Nurse	□ Newspaper	
	☐ Magazines	☐ Television	□ Radio	□ Internet	
	Relatives	□ Friends	Books		
ğ	20) Have you ever talked about Hormone Therapy with your GP?	Hormone Therapy with you	ur GP?		
	□Yes □No				
3	Have you ever taked about □ Yes □ No	Hormone Therapy with an	21) Have you ever taked about Hormone Therapy with another doctor eg. a gynaecologist? ☐ Yes ☐ No	gist?	
$\aleph$	What do you think are the benefits of using Hormone Therapy?	benefits of using Hormo	ine Therapy?		
	☐ Makes your bones stronger	nder	Decreased night sweats		
	☐ Prevents Breast Cancer		☐ Better moods		
	☐ Increases sex drive		☐ Prevents bladder infections	ons	
	☐ Relieves hat flushes		☐ Causes weight loss		
	□ Other				
ಟ	What do you think are the side effects of Hormone Therapy?	side effects of Hormone	e Therapy?		
	You can tick more than one box	box.	•		
	□ Dry vagina		☐ Leg clots		
	☐ Headaches		☐ Hair loss	:	
	☐ Breast tenderness		☐ Causes Breast Cancer		
	□ Weight gain		☐ Skin problems		
	□ kregutar periods		□ Womb Cancer		
	Other				

Thank you for taking the time to answer the questions. If this questionnaire has generated questions for you, please feel free to ask your doctor.

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