Hormone replacement therapy and female malignancy: what has the Million Women Study added to our knowledge?

Jo Marsden

Introduction
Breast, ovarian and endometrial cancers account for about one-third of female malignancies diagnosed annually in the UK. Their incidence increases rapidly after puberty and continues to do so until the onset of the menopause, after which rates continue to rise, but not as steeply (Figure 1). This incidence pattern implicates prolonged endogenous female sex hormone production/exposure in their aetiology and for breast and endometrial cancer is supported by epidemiological evidence. The impact of reproductive factors in the aetiology of ovarian cancer is less clear, but repetitive damage to ovarian epithelium has been hypothesised to predispose to malignant transformation. With all these cancers concern exists about the impact that exposure to hormone replacement therapy (HRT) may have on their incidence and mortality.

The Million Women Study (MWS) is the largest observational study to investigate the association between HRT and female malignancies. Since 2003 several papers, mostly concerning breast cancer, but also endometrial and ovarian cancer, have been published and accompanied by sensationalist journal press releases and media coverage. The resulting stark headlines have undoubtedly contributed to the loss of confidence in HRT by health professionals and the lay public. To be fair, sensationalism surrounding HRT is not exclusive to the MWS; the findings of the contemporaneous Women’s Health Initiative (WHI) study in the USA have also been promoted in this way. However, the MWS has significantly influenced recommendations from European advisory committees including the Committee for Safety of Medicines in the UK and resulted in many women receiving suboptimal advice about HRT and a dramatic decline in HRT prescribing. In view of this it is reasonable to consider the strength of the evidence provided by the MWS and the conclusions made. To do so necessitates review of the MWS in the context of other published clinical evidence to determine what this study has added to available knowledge about HRT, in order to advise perimenopausal and postmenopausal women appropriately.

Background
The MWS cohort was recruited from women attending the NHS Breast Screening Programme (NHSBSP) between 1996 and 2001. It should be noted that around 70% of women invited for mammography screening attend, and these women are of higher social class and more likely to be using HRT than those who do not attend. Of these, again only around 70% completed the MWS questionnaire. In practice, therefore, only around 50% of the potentially eligible women are included in the MWS, and they are not representative of the total population. In total, 1,084,111 women aged between 50 and 64 years who were invited to attend 66 of the 100 UK breast screening units completed a recruitment questionnaire.
Table 1 Summary of incidence and mortality findings from the Million Women Study (MWS)

<table>
<thead>
<tr>
<th>Cancer type</th>
<th>Recruitment questionnaire data</th>
<th>Follow-up questionnaire data</th>
<th>Average follow-up for cancer diagnosis (years)</th>
<th>Incident cancers (n)</th>
<th>Estimated mean duration of HRT exposure (years)</th>
<th>Relative risk (95% CI)</th>
<th>Incidence</th>
<th>Mortality</th>
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<tbody>
<tr>
<td>Breast*</td>
<td>Current use</td>
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<tr>
<td></td>
<td>All HRT</td>
<td>Yes</td>
<td>No</td>
<td>2.6</td>
<td>9364</td>
<td>1.05 (0.91–1.22)</td>
<td>–</td>
<td>–</td>
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<tr>
<td></td>
<td>Combined HRT</td>
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<td>Tibolone</td>
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</tr>
<tr>
<td>Endometrial*</td>
<td>Current use</td>
<td>Yes</td>
<td>Yes (15.5% response rate)</td>
<td>3.4</td>
<td>1320</td>
<td>1.22 (1.00–1.48)</td>
<td>–</td>
<td>–</td>
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<tr>
<td></td>
<td>Continuous combined</td>
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<td>Sequential HRT</td>
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</tr>
<tr>
<td>Ovarian*</td>
<td>Current use</td>
<td>Yes</td>
<td>Yes (~66% response rate)</td>
<td>5.3</td>
<td>2273</td>
<td>1.22 (0.98–1.53)</td>
<td>1.14 (0.87–1.51)</td>
<td>–</td>
</tr>
<tr>
<td></td>
<td>All HRT</td>
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<tr>
<td></td>
<td>Combined HRT</td>
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<td>‘Other’</td>
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</tbody>
</table>

*Risk unaffected by duration of prior use, time since stopping hormone replacement therapy (HRT) or type of HRT prescribed.

about their lifestyle, socioeconomic background, reproductive and medical history and HRT use. A second questionnaire was sent to participants between 1999 and 2004, about 3 years after recruitment, to update the initial information. Based on the recruitment questionnaire data only, the MWS investigators published their findings on the effect of HRT on breast cancer incidence and mortality in 2003, followed by that on the risk of false-positive mammography in 2004. Endometrial and ovarian cancer risk was based on information from both the recruitment and follow-up questionnaires. It can be appreciated, therefore, that although in all instances there was prospective follow-up for cancer outcomes, with the breast cancer findings HRT exposure was not prospective and, as is explained later, has probably led to erroneous conclusions about risk and duration of use.

At the recruitment assessment 50% of women recorded use of HRT at some time; 33% were current HRT users with a mean duration of exposure of 5.8 years. Of these, 41% recorded unopposed oestrogen use, 53% combined HRT and 6% ‘other’ preparations (including tibolone, progestogen alone, androgens and vaginal preparations). At the time of publication of the endometrial paper in 2005, follow-up questionnaire data was available for 15.5% of the cohort. The response rate was two-thirds in 2007 when the ovarian cancer findings were published.

Breast cancer findings of the MWS

Diagnosis/incidence

With an average follow-up of 2.6 years, 9364 breast cancers were diagnosed in 828,923 postmenopausal women with an average age of 55.9 years. The mean time between recruitment questionnaire completion with baseline mammography and cancer diagnosis was 1.2 years. Current use of all HRT types (with an average duration of use of 5.8 years) including tibolone was associated with an increased breast cancer risk, this being greatest with combined therapy (Table 1). Whilst there was evidence for a duration effect for many HRT regimens, risk emerged after periods of exposure of less than 1 to 2 years. Risk was unaffected by the specific oestrogen or progestogen prescribed, pattern of progestogen prescription or route of administration (vaginal preparations were not evaluated) and not elevated in past users. The only factor reported to modify risk was body mass index (BMI), with risk being greater in leaner women (i.e. BMI <25 kg/m², Table 2). A subsequent publication from the MWS has shown an association of HRT with tumours that are hormone sensitive (i.e. oestrogen receptor-positive).

Mortality

Current HRT users who developed breast cancer were reported to have a higher risk of dying from their disease compared with women without a history of HRT exposure at diagnosis [relative risk (RR) 1.22, 95% CI 1.00–1.48]. The average time between diagnosis and death was 1.7 years.

Screening mammography

Current use of any type of HRT was associated with an increased risk of interval cancers (i.e. cancer diagnosed between mammographic screens) and false-positive recall following a screening mammogram (with the exception of tibolone). The latter effect persisted up to 5 years after HRT cessation.

Comments

Breast cancer incidence

Overall, the patterns of association of HRT with breast cancer incidence reported by the MWS are similar to the body of clinical trial evidence (largely observational) known prior to the publication of their 2003 paper and subsequent to it. Placing the findings in the context of the large placebo-controlled WHI study (i.e. Level I evidence) suggests the MWS probably overestimated the degree of risk attributable to HRT and underestimated the duration of exposure associated with an increase in incidence. The latter is accounted for in that risk estimates were based on information about duration of HRT use at recruitment only. Adding an average of 1.2 years (i.e. the mean time to cancer diagnosis from recruitment) to each of the duration categories presented shifts the pattern of emergent risk to one that is more consistent with data from the WHI and other observational studies where risk associated with
combined therapy begins to emerge after 3 years’ exposure. Risk is not elevated with 5 years’ exposure to unopposed oestrogen replacement. This is supported by the available MWS follow-up questionnaire data that reported only 8% of current HRT users stopped taking it per year.7

A major criticism of the MWS methodology is the incomplete documentation of lifetime HRT exposure.16 When women attended for their first screening mammogram at recruitment only the name of the currently used HRT regimen, the duration of use and total duration of lifetime HRT use was collected. Risk was estimated based on the current HRT regimen assuming the duration of use was the same as a woman’s total lifetime exposure. In failing to record information about other HRT products used – women in the UK change (or switch) HRT products failing to record information about other HRT products was the same as a woman’s total lifetime exposure. In

Table 2 Association of current hormone replacement therapy (HRT) use, body mass index (BMI) and risk of breast, endometrial and ovarian cancer; comparison of the Million Women Study (MWS) and Women’s Health Initiative (WHI) study findings

<table>
<thead>
<tr>
<th>Cancer type</th>
<th>MWS (relative risk, 95% CI)</th>
<th>WHI, annualised risk (hazard ratio, 95% CI)</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>All HRT</td>
<td>Oestrogen alone</td>
</tr>
<tr>
<td>Breast</td>
<td></td>
<td></td>
</tr>
<tr>
<td>BMI category</td>
<td></td>
<td></td>
</tr>
<tr>
<td>&lt;25</td>
<td>1.53 (1.36–1.71)</td>
<td>2.31 (2.12–2.53)–</td>
</tr>
<tr>
<td>≥25–29</td>
<td>1.17 (1.05–1.29)</td>
<td>1.78 (1.64–1.94)–</td>
</tr>
<tr>
<td>≥30</td>
<td>–</td>
<td>–</td>
</tr>
<tr>
<td>Endometrial</td>
<td></td>
<td></td>
</tr>
<tr>
<td>BMI category</td>
<td></td>
<td></td>
</tr>
<tr>
<td>&lt;25</td>
<td>3.10 (1.6–6.2)</td>
<td>–</td>
</tr>
<tr>
<td>≥25–29</td>
<td>7.00 (3.9–12.6)</td>
<td>–</td>
</tr>
<tr>
<td>≥30</td>
<td>5.10 (1.6–15.7)</td>
<td>–</td>
</tr>
<tr>
<td>Ovarian</td>
<td></td>
<td></td>
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<tr>
<td>BMI category</td>
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<tr>
<td>&lt;25</td>
<td>1.14 (0.99–1.33)</td>
<td>–</td>
</tr>
<tr>
<td>≥25–29</td>
<td>1.28 (1.08–1.51)</td>
<td>–</td>
</tr>
<tr>
<td>≥30</td>
<td>1.11 (0.86–1.43)</td>
<td>–</td>
</tr>
</tbody>
</table>

Risk decreases with increasing BMI for breast and endometrial cancer in women currently using HRT. No clear association for ovarian cancer.

Breast cancer mortality
The 22% breast cancer mortality increase (albeit of borderline statistical significance) also found its way into accompanying press releases. The reliability of this finding is questionable and contrasts with other clinical trial data. Given the improved survival trends for treated breast cancer, the mortality difference over such a short follow-up time is hard to explain. No information was provided about the phenotype, stage and treatment of incident cancers diagnosed during the study – all of which are necessary in order to interpret the findings. The increased breast cancer deaths in women who used HRT at diagnosis may simply reflect the greater number of breast cancers diagnosed in this cohort. Hormone receptor status (i.e. oestrogen receptor status) is not an independent prognostic indicator for breast cancer, but is associated with a better survival due to the fact that low-grade tumours are more likely to be receptor-positive than high-grade disease.19 HRT is associated with oestrogen-receptor-positive breast cancer and would be predicted to be so, given outcomes of endocrine chemoprevention and breast cancer treatment trials where response only occurs in hormone-sensitive disease.20

HRT and screening mammography
The MWS finding that HRT increases the risk of interval cancers and false-positive recall is largely in agreement with other observational trials that overall have shown HRT to reduce mammographic sensitivity (ability to detect an abnormality) and specificity (ability to differentiate cancer from non-cancerous change).

Placebo-controlled trial evidence available at the time of the MWS publications does provide further insight into the potential impact of HRT on the accuracy of screening mammography. This evidence has shown that it is probably not only combined therapy that results in an increase in mammographic breast density and hence a potential impact on interval cancer rates due to a reduction in sensitivity (increasing the chance of a cancer being missed at a previous screen).13,15,21 Only about 25% of women who use combined therapy actually develop any density increase and when it occurs it is of the order of about a 5%
increase. This effect of combined HRT occurs regardless of the class of progestogen or prescription pattern (i.e. sequential or continuous), becomes apparent within a few weeks of commencement and then plateaus with increasing duration having no further effect. The WHI study also found an absolute increase in the risk of a woman having an abnormal mammogram (i.e. likely benign changes but requiring short-term follow-up or changes suspicious for malignancy) of 10% over the time of follow-up (i.e. 5 years) if allocated to combined therapy, compared with those allocated to receive placebo. However, the WHI study reported that density change with combined therapy was not predictive of an abnormal mammogram. Whilst an increased breast density could lead to an increase in interval cancers due to ‘missed’ abnormalities at screening, there are no data from randomised trials to provide more reliable estimates of interval cancer rates and the prognostic features of screen-detected versus interval cancers to determine whether this has any impact on breast cancer mortality.

Mammographic density is unaffected by conjugated equine oestrogen (CEE) alone (observational data suggest no or a minimal impact of oestradiol valerate) but CEE use increased the risk of a mammographic abnormality being found in the MWS study. Here this resulted predominantly in a recommendation for short-term follow-up (i.e. likely benign change) and after 7 years’ follow-up the cumulative absolute percentage increase for a mammogram with an abnormality requiring follow-up in the women allocated to receive CEE was 5%. The absence of any impact on mammographic breast density and reduction (albeit not statistically significant) in breast cancer incidence over the 7-year follow-up of the randomised WHI study argues against an increase in incidence, but concluded that this was based on ‘fragile’ data, in that bias and uncontrolled confounding could not be excluded. The recent conclusion of the THEBES Database cohort study reported a significantly increased association with tibolone. The UK General Practice Database cohort study reported a significantly increased risk with past use of oestrogen alone. However, no information about recency of use was provided.

Few data exist on the risk of endometrial cancer in association with tibolone. The UK General Practice Database cohort study reported a significantly increased risk in a dose- and duration-dependent manner and prevention of this by the addition of a progestogen. Prior observational studies have also consistently shown that a progestogen has to be administered for a minimum of 10 days per cycle, or continuously, to reduce the risk of endometrial cancer associated with oestrogen alone. In contrast to other published evidence, where risk of endometrial cancer is elevated for at least 5 years post-cessation of unopposed oestrogen replacement, the MWS did not report an increase in endometrial cancer risk with past use of oestrogen alone. However, no information about recency of use was provided.

Overall combined HRT had no effect. In the subgroup of women using a continuous combined preparation containing medroxyprogesterone acetate risk was significantly reduced (RR 0.63, 95% CI 0.43–0.93). Risk was also lowered in women using any type of combined therapy if obese (i.e. BMI >30 kg/m²). Women with a low BMI (i.e. <25 kg/m²) were at increased risk if they were current users of sequential HRT (RR 1.54, 95% CI 1.20–1.99).

The authors concluded that oestrogen and tibolone increase endometrial cancer risk and that the addition of a progestogen will counteract the adverse effect of oestrogen, the effect being greater the more days every month that a progestogen is used, particularly in obese women. The conclusion of this publication was that combined HRT will cause a greater increase in the total incidence of endometrial and breast cancer compared with oestrogen or tibolone.

**Comments**

**Endometrial cancer incidence**

Overall, the findings concur with previous clinical (non-randomised) studies that show unopposed oestrogen increases endometrial cancer risk in a dose- and duration-dependent manner and prevention of this by the addition of a progestogen. Prior observational studies have also consistently shown that a progestogen has to be administered for a minimum of 10 days per cycle, or continuously, to reduce the risk of endometrial cancer associated with oestrogen alone. In contrast to other published evidence, where risk of endometrial cancer is elevated for at least 5 years post-cessation of unopposed oestrogen replacement, the MWS did not report an increase in endometrial cancer risk with past use of oestrogen alone. However, no information about recency of use was provided.

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The relationship between endometrial cancer risk, HRT and obesity had been shown prior to the MWS. In the Newcomb and Trentham-Dietz study, leaner women (i.e. BMI <25 kg/m²) had a greater risk of endometrial cancer associated with unopposed oestrogen use (RR 1.20, 95% CI 1.14–1.27). The combined HRT component of the
WHI failed to show any association with BMI, however the number of cancer cases was too small for reliable subgroup analyses to be performed. In view of the fact that overall the MWS endometrial paper confirmed previously reported evidence, one questions the necessity of issuing a press release, direct quotes from which are shown below.

“Risk of womb cancer varies according to the type of HRT used.”

“Certain types of hormone-replacement therapy (HRT) increase a woman's risk of womb cancer while others do not, concludes a study published in this week's issue of THE LANCET.”

### Ovarian cancer findings from the MWS

#### Incidence

With an average follow-up of 5.3 years, 2273 incident ovarian cancers were diagnosed in 948 1576 women. Current use of combined (sequential and continuous) and unopposed HRT was associated with an increased risk of ovarian cancer that was duration dependent, risk beginning to emerge after 5 years' exposure (Table 1). Analysis according to histological type showed the increased risk to be restricted to serous epithelial tumours only (RR 1.53, 95% CI 1.31–1.79). Risk was not increased with past use of HRT, including women who ceased use within the previous 5 years.

#### Mortality

Ovarian cancer mortality was increased in women who were current HRT users at the time of last contact (Table 1). A total of 1591 deaths from ovarian cancer were recorded. Overall current HRT use was estimated to result in one extra ovarian cancer death per 3300 women who use it for more than 5 years and one extra ovarian cancer death per 3300 women diagnosed with the disease. Based on the prevalence of HRT use between 1991 and 2006, the MWS investigators suggested that 1300 extra ovarian cancers have been caused by HRT over that time and 1000 excess ovarian cancer deaths.

#### Comments

### Ovarian cancer incidence

Clinical data on the association between HRT and ovarian cancer has yet to be confirmed. The most recent meta-analysis evaluating incidence (based on 12 238 incident cases) estimates the risk to be increased slightly with ever-use of both unopposed and combined therapy, and supports an incessant ovulation hypothesis. No association with any particular histological subtype of epithelial ovarian cancer was found but other individual studies have shown an association with serous, endometrioid and mucinous cell epithelial cancers.

The MWS found no increased risk in past HRT users. If it truly is a significant factor in 'causing' ovarian cancer in previous users then HRT exposure, especially in the recent past, would be expected to elevate risk. In the absence of an appropriate randomised control group for comparison, it is not possible to determine whether the observed results reflect HRT use in women predisposed to developing ovarian cancer, or detection bias due to increased surveillance, or a healthy user effect. Only the combined HRT component of the WHI study has reported on ovarian cancer incidence. Here, risk was elevated to a smaller degree than the MWS, but this was not statistically significant. The unopposed oestrogen component of the randomised WHI study has still to report on the impact on ovarian malignancy.

### Ovarian cancer mortality

“1000 EXTRA OVARIAN CANCER DEATHS DUE TO HRT IN UK SINCE 1991.”

This is the opening statement of The Lancet press release that accompanied the publication of the MWS ovarian cancer findings (reproduced using the same upper-case format). Irresponsible perhaps, as this estimate of cancer deaths due to HRT was not based on data collected during the study, but inferred from estimates of UK HRT use over that time period, without accounting for stage and treatment of cancers over that time. In absolute terms, taking data from the time period of the study itself, one extra ovarian cancer death per 3300 women has been estimated. There is no rationale for the extrapolation back to 1991 and forward to 2005. The increase in mortality from ovarian cancer in women taking HRT may, as for the breast cancer data, simply reflect the fact that more cancers were diagnosed in HRT users compared with non-users. The WHI study found no excess of cancer deaths in either the unopposed oestrogen, or combined HRT components of their randomised trial.

### Summary

The trends in breast, endometrial and ovarian cancer incidence reported by the MWS are broadly similar to previous and subsequently published clinical evidence. The cancer incidence data, when viewed in absolute terms in comparison with the WHI study, support this (Table 3). Although the MWS findings are based on a very large cohort, these are observational data and should be interpreted in the context of other evidence, particularly randomised controlled trials. If differences exist between women attending the NHSBSP and those who do not, and between attendees who agreed or declined to participate in the study, this could bias the reported results. Women who use HRT are also more likely to exhibit health-orientated...
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behaviour than non-users and may be offered more health checks in primary care. These differences cannot be accounted for by the MWS design but are important in its interpretation. The size of this study alone is insufficient reason for its findings to be accepted without question. The mortality data are impossible to interpret with accuracy for reasons outlined previously.

If anything, it is the interpretation and emphasis placed on the findings by the MWS investigators that has created confusion and concern. Counselling women about HRT is complex, due to its diverse profile in relation to cancer- and non-cancer-associated outcomes. The MWS investigators constantly stress the former. Despite the fact that all their publications emphasise that individual findings on breast, ovarian and endometrial cancer should not be viewed in isolation, they present their data in complete absence of other clinical evidence on chronic health conditions affected by HRT that have just, if not more, potential for impacting on a woman’s overall survival. These include colorectal cancer (where combined therapy has a protective effect), cardiovascular disease (where there is likely to be benefit if HRT is commenced in the perimenopause or within 10 years of the menopause), osteoporosis (again a beneficial impact) and thromboembolic disease (where risk is initially increased). Their arguments, in addition, do not address the issue of symptom relief and quality of life benefits with HRT and are prescriptive to say the least. Any practitioner discussing HRT is (or should be) aware of the complexities in counselling women adequately. Discussion of known risks and benefits, including current areas of uncertainty, would seem to be a more measured and rounded means of providing public health education, but it probably wouldn’t stimulate the production of press releases and generate media headlines. This is a shame, as it stifles debate and ignores the fact that most women are pragmatists and quite capable of weighing up health benefits and adverse impact on their overall health whilst improving their well-being.

**Statements on funding and competing interests**

**Funding** The author is the principal investigator for the national UK randomised trial of HRT in symptomatic women with early-stage breast cancer and has been sponsored to attend conferences and received speaker’s fees from Organon, Orion, Schering, Servier, Solvay Healthcare Ltd and Wyeth. Consultancy fees have been received from Wyeth and Organon and fees for preparation of educational material from Novartis.

**Competing interests** The author is also on the council of the British Menopause Society and a member of the European Menopause Society.

**References**


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Abortion is more than a debate about conscientious objection

Jenny Talia

There is nothing like reading a Daily Mail article on sex and abortion to motivate you to campaign for justice and equality in this world. Linked to a story on the reduction in the number of doctors performing abortions, a general practitioner (GP) said he had quit to work as a surgeon because he could not bear to sign a GP contract which “forces them to refer women for terminations”. I might have bought the paper in France but I do not believe he signed the same contract as me (and thousands of others in the land). For a start, the contraception “additional services” in the new GP contract is entirely voluntary and, in any case, you really only need to have policies on emergency contraception and preconception care to earn the measly two “QOF” points. Second, if a GP signs up to this, it allows for the referral to other practitioners for unplanned pregnancies without compromising one’s conscience. So maybe there are other reasons why the aforementioned GP had to quit and work as a surgeon; and before anyone gets libel-happy, I don’t doubt my dear colleague is in any way short of competent.

A recent poll by a well-known GP magazine, Pulse, indicates that a quarter of GPs refuse to sign abortion referral forms, one in five do not believe abortion should be legal, and just over half want to reduce the current 24-week legal limit for abortions. Meanwhile, the latest statistics show abortion rates have been rising in England and Wales since 1970; 32% of women who had an abortion in 2005 had one or more previous abortions, this proportion has risen from 28% since 1995.

You could argue that the best way to reduce abortions is to limit the demand by making it more difficult for women, and thus making them think twice before taking risks. Making a decision to have an abortion is difficult enough and going through with one is traumatic. I despair at the efforts that some people go to make it harder for women to exercise their right to an abortion. I have no desire to argue with those who have conscientious objections but I fear we are all barking up the wrong tree. No one is celebrating the current rise in abortion rates with glee, not even, dare I suggest, the suppliers of abortion services. But is limiting the supply the only answer?

Every unplanned pregnancy that ends in abortion is a failure of health professionals; by this I mean contraception provision in all settings including general practice, community contraceptive clinics and other health services. Of course there are other players too such as schools and parents; I’ll get to these another time.

Too much effort is expended on debating the rights and wrongs about abortion and not enough is done to prevent it. What proportion of conscientious objectors makes a conscientious effort to ensure men and women use contraception? Conversely, is the pro-choice contingent too lax about initiating discussions on contraception to men and women opportunistically?

Of course, there is responsibility for everyone along the chain. What I have a problem with are health professionals who not only deny the rights of women for abortion, but also refuse to offer contraception on religious and moral grounds and insist on abstention.

One of the key features of a modern and civil society is the ability to control population growth and fertility. If most of the Western world could do it, what are we doing wrong? Perhaps what it really boils down to is a strong political will, free from religious agenda, to promote better sex education in schools, better access to reliable and free contraception (including condoms) and timely access to abortion, which hopefully by then would be a rare event. This probably explains why the USA fares no better than low-income countries when it comes to fertility control.

Here is my fantasy: young men and women bombarded with sex education messages from primary through to secondary school; similar messages being widely disseminated via magazines, on radio, television soaps and reality programmes; sex education from parents; GPs chasing young adults for chlamydia screening and everyone of reproductive age to give contraceptive advice to earn them QOF points.

Am I asking for something really radical?

References

Hormone replacement therapy and female malignancy: what has the Million Women Study added to our knowledge?

Jo Marsden

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