# Talking straight about emergency contraception

James Trussell, Katherine A Guthrie

### **Background**

In this Commentary we review recent research about the mechanism of action of levonorgestrel emergency contraceptive pills (ECPs) and the population impact of emergency contraception (EC), and we examine the downside of making ECPs available directly from a pharmacist or other non-specialist provider without a prescription. We argue that better information-giving about EC is needed and that it is essential that emergency intrauterine device (IUD) insertion services are enhanced (Box 1).

# **Mechanism of action of ECPs**

Early treatment with ECPs containing only the progestin levonorgestrel has been shown to impair the ovulatory process and luteal function; 1-6 no effect on the endometrium was found in two studies,<sup>2,3</sup> but in another study levonorgestrel taken before the luteinising hormone surge altered the luteal phase secretory pattern of glycodelin in serum and the endometrium.<sup>7</sup> Levonorgestrel also interferes with sperm migration and function at all levels of the genital tract.<sup>8</sup> Studies in the rat and the *Cebus* monkey demonstrate that levonorgestrel administered in doses that inhibit ovulation has no post-fertilisation effect that impairs fertility.9-11 Whether these results can be extrapolated to women is unknown. Based on those animal studies and on their own studies in women (including their latest one in which no pregnancies were observed when levonorgestrel-only ECPs were taken before the day of ovulation whereas four to five would have been expected and three pregnancies were observed when ECPs were taken after ovulation when three to four would have been expected),<sup>12</sup> Novikova and colleagues have argued that most, if not all, of the contraceptive effect of both combined and levonorgestrel-only ECPs can be explained by inhibited or dysfunctional ovulation.

The reduced effectiveness with a delay in treatment, even when use is adjusted for cycle day of unprotected sex, <sup>13</sup> is consistent with a contraceptive mechanism that is independent of effects on implantation. If ECPs did interfere directly with implantation, then delays in use should not reduce their effectiveness as long as they are used just before or during implantation. <sup>14</sup> Nevertheless, it is unlikely that this question can ever be unequivocally answered, and we therefore cannot conclude that ECPs never prevent pregnancy after fertilisation.

To make an informed choice, women must know how ECPs work, when they won't, what their choices of emergency contraceptives are, and treatment risks, if any. Women should be informed that like all ongoing hormonal

J Fam Plann Reprod Health Care 2007; 33(3): 139-142

# Office of Population Research, Princeton University, Princeton, NY, USA

James Trussell, PhD, Director and Professor of Economics and Public Affairs (also Visiting Professor, The Hull York Medical School, Hull, UK)

# Sexual and Reproductive Healthcare Partnership, Hull and East Yorkshire, Hull, UK

Katherine A Guthrie, FRCOG, MFFP, Consultant Gynaecologist

Correspondence to: Professor James Trussell, Office of Population Research, Wallace Hall, Princeton University, Princeton NJ 08544, USA. E-mail: trussell@princeton.edu

# Box 1: Factors that are key to a successful emergency contraception service

Women need to know:

- Emergency contraception pills per se carry almost no health risk no matter how often used.
- At certain times of the cycle or if delayed they are less effective.
- They are not a talisman. They work only if you swallow them!

The following elements need to be commissioned:

- Health promotion on emergency contraception and how/where/when to access it.
- Easy access from as many medical and non-medical providers as possible.
- Easy access to specialist services for emergency intrauterine devices through care pathways.
- Emergency contraception as an integral part of comprehensive sexual health care.

contraceptives such as the pill, patch, implant, injectable and ring, 15 and even breastfeeding, 16-19 ECPs may prevent pregnancy by delaying or inhibiting ovulation, inhibiting fertilisation, or inhibiting implantation of a fertilised egg. But, as a comprehensive review of the mechanism of action of levonorgestrel-only ECPs concluded: "At the same time, however, all women should be informed that the best available evidence is consistent with the hypothesis that their ability to prevent pregnancy can be fully accounted for by mechanisms that do not involve interference with post-fertilization events."14 Thus, an important clinical implication emerges from this review. If women are too near, at, or just past ovulation, then ECPs are less likely to work, if at all. It is no longer acceptable to say that 1.5 mg levonorgestrel will prevent about 84% (Levonelle One Step® package insert) or 89% (Plan B® package insert) of pregnancies when taken within 72 hours of intercourse without qualifying where in the cycle relative to ovulation it is taken. ECP dispensers need to take the best possible history and be able to offer the choice of an emergency insertion of a copper IUD if the client wishes to have the most effective EC. It is particularly important if the history clearly indicates that ECPs might not be effective or if the woman is unsure about where in her cycle she is (of course some clients will be dead sure, and dead wrong!) or if, regardless, she wishes to have the most effective EC. Emergency insertion of a copper IUD is always significantly more effective than use of ECPs, reducing the risk of pregnancy following unprotected intercourse by as much as 99%. 20,21 This very high level of effectiveness implies that emergency insertion of a copper IUD must also be able to prevent pregnancy after fertilisation.

## **Population impact of ECPs**

Reported evidence demonstrates convincingly that making ECPs more widely available does not increase risk-taking or adversely affect regular contraceptive use.<sup>22–35</sup> In the three studies that examined the impact of easier access to ECPs on rates of sexually transmitted infections (STI), women randomly assigned to the group given advance supplies of ECPs for later use should the need arise had the same incidence of infection as did women in the control group who had to obtain ECPs from a clinic.<sup>27,29,34,35</sup> Conversely, no published study has yet demonstrated that

increasing access to ECPs can reduce pregnancy or abortion rates in a population,<sup>35–37</sup> although one demonstration project<sup>38</sup> and three clinical trials<sup>29,30,34</sup> were specifically designed to address this issue. The explanation for this result is that even when provided with ECPs in advance, women do not use the treatment often enough after the most risky incidents to result in a substantial population impact. In the demonstration project, 78% of women with advance supplies who got pregnant did not use ECPs. In the San Francisco trial, almost half of the women in the advance provision group who had unprotected intercourse did not use ECPs. In the Chinese trial, 30/38 pregnancies in the advance provision group occurred in women who did not use ECPs in that cycle. Finally, in the Nevada/North Carolina trial, 57/74 pregnancies in the advance provision group occurred in women who did not use ECPs in that cycle.

# **Effectiveness of ECPs**

The chance that pregnancy would occur in the absence of EC has been estimated indirectly using published data on the probability of pregnancy on each day of the menstrual cycle.<sup>39,40</sup> This estimate is compared to the actual number of pregnancies observed after treatment in observational treatment trials. Effectiveness is calculated as the reduction in women's chance of pregnancy: 1-O/E, where O and E are the observed and expected number of pregnancies, respectively. Eight studies of the levonorgestrel regimen that in total included more than 9500 women reported estimates of effectiveness between 59% and 94%.41-48 Calculation of effectiveness, and particularly the denominator of the fraction, involves many assumptions that are difficult to validate. Therefore, reported figures on the efficacy of EC may be underestimates or, more probably, overestimates.<sup>49</sup> Nevertheless we have excellent evidence that levonorgestrel-only ECPs work. Combined data from two randomised trials that directly compared the levonorgestrel-only regimen and levonorgestrelethinylestradiol (Yuzpe) regimen showed a relative risk of pregnancy of 0.51 for the levonorgestrel-only regimen (95% CI 0.31-0.83), indicating that the chance of pregnancy was about half that among those who received the combined regimen. 44,45,50 If we assume that the Yuzpe regimen is totally ineffective, then the estimate of levonorgestrel-only ECP effectiveness would be 49%. If we assume that the effectiveness of the Yuzpe regimen is 50%, then the implied effectiveness of the levonorgestrelonly regimen would be 74%. Of course, these estimates are averages and do not reflect differential efficacy by timing of ECP ingestion relative to the day of ovulation. As noted above, it is likely that the failures occur when ECPs are not taken far enough in advance of ovulation, and this explanation would also be consistent with the finding that the risk of failure increases with delay in treatment.<sup>14</sup>

Hence, we can be confident that levonorgestrel-only ECPs do substantially reduce the risk of pregnancy when they are actually used. The lack of a population level effect on reducing unintended pregnancy is due to insufficient use. But if there is insufficient use in groups of women given an advance supply of ECPs at no cost, it is highly unlikely that there will be a major public health impact when women have to obtain and pay for ECPs. ECPs are a tiny cork floating on a vast sea of unprotected sex! There is an apt analogy with condoms and HIV. A meta-analysis has demonstrated that in HIV-discordant couples in which the male was infected and the female was not, no reduction in the risk of acquiring HIV was seen unless condoms were used during 100% of acts of intercourse. 51 Just making treatment available does not change human nature or

behaviour, nor does only occasional use when at risk provide any long-term benefit.

### **Demedicalision of access to ECPs**

Access to levonorgestrel-only ECPs from a pharmacist without prescription in the UK and USA bears comparing. Unlike in the UK, pharmacists in the USA do not have to receive any training whatsoever to dispense levonorgestrelonly ECPs without a prescription. It is evident from e-mails to the Emergency Contraception Website 'not-2-late.com' that some pharmacists in the USA are woefully ignorant about EC. Also, in the USA, there has been an increase in \$25 (£12.50)[from about (£20.00-£22.50)], presumably to cover the expense of advertising to consumers, accompanied by a loss of insurance coverage, even for women aged 18 years and over who obtain a prescription (since the ECP Plan B is over-the-counter and does not require a prescription, most insurance companies no longer cover it). It is clear that in the UK many (a third of) women prefer to pay £25 for the convenience of getting Levonelle One Step from a pharmacist even though Levonelle 1500® is free on prescription, from a community contraception clinic, or a scheme where the drug can be dispensed free by Patient Group Direction (PGD)<sup>22</sup> (e.g. from pharmacists or school nurses). It is not hard to understand why. Access to general practitioner (GP) appointments can be difficult and community contraception clinics are being closed.<sup>52</sup> Women (particularly young women) are often shy of sitting in a GP's waiting area for hours in full potential view of their neighbours wondering why they are there, and women of all ages worry about being told they are feckless, stupid or promiscuous.

In both countries, a predictable adverse consequence is the loss of contact with a clinician. When women were required to see a clinician to obtain ECPs there was a potential bridging opportunity to discuss the relative effectiveness of ECPs versus an emergency IUD, provide the said emergency IUD, initiate effective regular methods of ongoing contraception if ECPs were chosen, and assess and manage STI risk. Admittedly that opportunity was only potential because there is no requirement for professionals in general practice to be post-basic trained in contraception. Nevertheless, for women who would have seen a specialist clinician or a GP who would have initiated such a discussion, that bridging opportunity is lost. Pharmacists are neither trained nor paid to provide ongoing contraception, although some UK schemes provide free condoms and chlamydia tests with ECPs by PGD. Of particular note is that among women who buy ECPs directly from a pharmacist or via PGD, the opportunity for immediate emergency insertion of a copper IUD is now lost, and with it up to 10 additional years (depending on the device) of highly effective contraceptive protection. The demedicalisation of access to ECPs has been successful in improving access, a laudable accomplishment. Advance provision would be further progress. But such increased access demands an informed discussion regarding choice of method of EC, particularly now given the evidence available on ECP effectiveness (or lack of) in different times of the cycle, and at least the broaching of ongoing contraception, especially long-acting reversible methods,<sup>53</sup> and STI prevention and detection. In the UK, this need can best be addressed by updating the written and verbal information women should be given on effectiveness, and involving community pharmacists and other non-specialist providers in care pathways within managed clinical networks so women can be 'signposted on' for an emergency IUD insertion and full contraceptive and sexual health care.

### **Conclusions**

Access, care pathways and specialist provision are critical areas that must be brought to the attention of Primary Care Trust commissioners: easy access to ECPs today may reduce the risk of pregnancy from an act of unprotected intercourse last night, if taken early enough in the cycle, but not from the STI acquired during the same episode or the recurring risk with the next and subsequent episodes. ECPs are but one piece in the jigsaw of comprehensive sexual health care.

#### Editor's note

Readers are referred to Sam Rowlands' review of the 2007 *Contraception* article authored by Novikova *et al.* on page 145.

### Statements on funding and competing interests

Funding None identifed.

Competing interests None identifed.

#### References

- 1 Hapangama D, Glasier AF, Baird DT. The effects of periovulatory administration of levonorgestrel on the menstrual cycle. Contraception 2001; 63: 123–129.
- 2 Durand M, del Carmen Cravioto M, Raymond EG, Durán-Sánchez O, De la Luz Cruz-Hinojosa L, Castell-Rodríguez A, et al. On the mechanisms of action of short-term levonorgestrel administration in emergency contraception. Contraception 2001: 64: 227–234.
- Marions L, Hultenby K, Lindell I, Sun X, Stabi B, Gemzell Danielsson K. Emergency contraception with mifepristone and levonorgestrel: mechanism of action. *Obstet Gynecol* 2002; 100: 65–71.
- 4 Marions L, Cekan SZ, Bygdeman M, Gemzell-Danielsson K. Effect of emergency contraception with levonorgestrel or mifepristone on ovarian function. *Contraception* 2004; 69: 373–377.
- 5 Croxatto HB, Brache V, Pavez M, Cochon L, Forcelledo ML, Alvarez F, et al. Pituitary-ovarian function following the standard levonorgestrel emergency contraceptive dose or a single 0.75-mg dose given on the days preceding ovulation. Contraception 2004; 70: 442–450.
- 6 Okewole IA, Arowojolu AO, Odusoga OL, Oloyede OA, Adeleye OA, Salu J, et al. Effect of single administration of levonorgestrel on the menstrual cycle. Contraception 2007; 75: 372–367.
- Durand M, Sépala M, del Carmen Cravioto M, Koistinen H, Koistinen R, González-Macedo J, et al. Late follicular phase administration of levonorgestrel as an emergency contraceptive changes the secretory pattern of glycodelin in serum and endometrium during the luteal phase of the menstrual cycle. Contraception 2005; 71: 451–457.
- 8 Kesserü E, Garmendia F, Westphal N, Parada J. The hormonal and peripheral effects of d-norgestrel in postcoital contraception. Contraception 1974; 10: 411–424.
- 9 Croxatto HB, Ortiz ME, Müller AL. Mechanisms of action of emergency contraception. *Steroids* 2003; 68: 1095–1098.
- Müller AL, Llados CM, Croxatto HB. Postcoital treatment with levonorgestrel does not disrupt postfertilization events in the rat. Contraception 2003; 67: 415–419.
- 11 Ortiz ME, Ortiz RE, Fuentes MA, Parraguez VH, Croxatto HB. Postcoital administration of levonorgestrel does not interfere with post-fertilization events in the new-world monkey Cebus apella. Hum Reprod 2004; 19: 1352–1356.
- 12 Novikova N, Weisberg E, Stanczyk FZ, Croxatto HB, Fraser, IS. Effectiveness of levonorgestrel emergency contraception given before or after ovulation a pilot study. *Contraception* 2007; 75: 112, 118
- 13 Piaggio G, von Hertzen H, Grimes DA, Van Look PFA. Timing of emergency contraception with levonorgestrel or the Yuzpe regimen. *Lancet* 1999; 353: 721.
- 14 Davidoff F, Trussell J. Plan B and the politics of doubt. *J Am Med Assoc* 2006; **296**: 1775–1778.
- 15 American College of Obstetricians and Gynecologists (ACOG). Statement on Contraceptive Methods. Washington, DC: ACOG, July 1998.
- 16 Díaz S, Cárdenas H, Brandeis A, Miranda P, Salvatierra AM, Croxatto HB. Relative contributions of anovulation and luteal phase defect to the reduced pregnancy rate of breastfeeding women. Fertil Steril 1992; 58: 498–503.
- 17 Lewis PR, Brown JB, Renfree MB, Short RV. The resumption of ovulation and menstruation in a well-nourished population of women breastfeeding for an extended period of time. *Fertil Steril* 1991; **55**: 529–536.

- 18 Brown JB, Harrisson P, Smith MA. A study of returning fertility after childbirth and during lactation by measurement of urinary oestrogen and pregnanediol excretion and cervical mucus production. J Biosoc Science 1985; 9(Suppl.): 5–23.
- 19 Gray RH, Campbell OM, Apelo R, Éslàmi SS, Zacur H, Ramos RM, et al. Risk of ovulation during lactation. Lancet 1990; 335: 25–29.
- 20 Trussell J, Ellertson C. Efficacy of emergency contraception. Fertil Control Rev 1995; 4: 8–11.
- 21 Zhou L, Xiao B. Emergency contraception with Multiload Cu-375 SL IUD: a multicenter clinical trial. *Contraception* 2001; 64: 107–112.
- 22 Marston C, Meltzer H, Majeed A. Impact on contraceptive practice of making emergency hormonal contraception available over the counter in Great Britain: repeated cross sectional surveys. BMJ 2005; 331: 271.
- 23 Moreau C, Bajós N, Trussell J. The impact of pharmacy access to emergency contraceptive pills in France. Contraception 2006; 73: 602–608.
- 24 Glasier A, Baird D. The effects of self-administering emergency contraception. *N Engl J Med* 1998; 339: 1–4.
   25 Raine T, Harper C, Leon K, Darney P. Emergency
- 25 Raine T, Harper C, Leon K, Darney P. Emergency contraception: advance provision in a young, high-risk clinic population. *Obstet Gynecol* 2000; 96: 1–7.
- 26 Jackson RA, Schwarz EB, Freedman L, Darney P. Advance supply of emergency contraception: effect on use and usual contraception – a randomized trial. Obstet Gynecol 2003; 102: 8–16.
- 27 Gold MA, Wolford JE, Smith KA, Parker AM. The effects of advance provision of emergency contraception on adolescent women's sexual and contraceptive behaviors. *J Pediatr Adolesc Gynecol* 2004; 17: 87–96.
  28 Lo SS, Fan SYS, Ho PC, Glasier AF. Effect of advanced
- 28 Lo SS, Fan SYS, Ho PC, Glasier AF. Effect of advanced provision of emergency contraception on women's contraceptive behavior: a randomized controlled trial. *Hum Reprod* 2004; **19**: 2404–2410.
- 29 Raine TR, Harper CC, Rocca CH, Fischer R, Padian N, Klausner JD, et al. Direct access to emergency contraception through pharmacies and effect on unintended pregnancy and STIs: a randomized controlled trial. J Am Med Assoc 2005; 293: 54–62.
- Hu X, Cheng L, Hua X, Glasier A. Advanced provision of emergency contraception to postnatal women in China makes no difference in abortion rates: a randomized controlled trial. *Contraception* 2005; 72: 111–116.
   Belzer M, Sanchez K, Olson J, Jacobs AM, Tucker D. Advance
- 31 Belzer M, Sanchez K, Olson J, Jacobs AM, Tucker D. Advance supply of emergency contraception: a randomized trial in adolescent mothers. *J Pediatr Adolesc Gynecol* 2005; **18**: 347–354.
- 32 Trussell J, Raymond E, Stewart FH. Advance supply of emergency contraception: a randomized trial in adolescent mothers [Letter]. *J Pediatr Adolesc Gynecol* 2006; **19**: 251.
- 33 Walsh TL, Frezieres RG. Patterns of emergency contraception use by age and ethnicity from a randomized trial comparing advance provision and information only. *Contraception* 2006; 74: 110–117.
- 34 Raymond EG, Stewart F, Weaver M, Monteith C, Van Der Pol B. Impact of increased access to emergency contraceptive pills: a randomized controlled trial. *Obstet Gynecol* 2006; 108: 1098–1106.
- 35 Polis CB, Schaffer K, Blanchard K, Glasier A, Harper CC, Grimes DA. Advance provision of emergency contraception for pregnancy prevention. *Cochrane Database Syst Rev* 2007;(2): CD005497
- 36 Glasier A. Emergency contraception. BMJ 2006; 333: 560-561.
- 37 Raymond EG, Trussell J, Polis C. Population effect of increased access to emergency contraceptive pills: a systematic review. Obstet Gynecol 2007; 109: 181–188.
- 38 Glasier A, Fairhurst K, Wyke S, Ziebland S, Seaman P, Walker J, et al. Advanced provision of emergency contraception does not reduce abortion rates. Contraception 2004; 69: 361–366.
- Dixon GW, Schlesselman JJ, Ory HW, Blye RP. Ethinyl estradiol and conjugated estrogens as postcoital contraceptives. *JAMA* 1980; 244: 1336–1339.
   Wilcox AJ, Weinberg CR, Baird DD. Timing of sexual
- 40 Wilcox AJ, Weinberg CR, Baird DD. Timing of sexual intercourse in relation to ovulation. Effects on the probability of conception, survival of the pregnancy, and sex of the baby. N Engl J Med 1995; 333: 1517–1521.
- 41 von Hertzen H, Piaggio G, Ding J, Chen J, Song S, Bártfai G, et al. Low dose mifepristone and two regimens of levonorgestrel for emergency contraception: a WHO multicentre randomised trial. Lancet 2002; 360: 1803–1810.
- 42 Arowojolu AO, Okewole IA, Adekunle AO. Comparative evaluation of the effectiveness and safety of two regimens of levonorgestrel for emergency contraception in Nigerians. *Contraception* 2002; **66**: 269–273.

- 43 Ngai SW, Fan S, Li S, Cheng L, Ding J, Jing X, et al. A randomized trial to compare 24h versus 12h double dose regimen of levonorgestrel for emergency contraception. Hum Reprod 2004; 20: 307–311.
- 44 Ho PC, Kwan MS. A prospective randomized comparison of levonorgestrel with the Yuzpe regimen in post-coital contraception. *Hum Reprod* 1993; **8**: 389–392.
- 45 Task Force on Postovulatory Methods of Fertility Regulation. Randomised controlled trial of levonorgestrel versus the Yuzpe regimen of combined oral contraceptives for emergency contraception. *Lancet* 1998; 352: 428–433.
- 46 Wu S, Wang C, Wang Y, Cheng W, Zuo S, Li H, et al. A randomized, double-blind, multicenter study on comparing levonorgestrel and mifepristone for emergency contraception. J Reprod Med 1999; 8(Suppl. 1): 43–46.
- 47 Hamoda H, Ashok PW, Stalder C, Flett GM, Kennedy E, Templeton A. A randomized trial of mifepristone (10 mg) and levonorgestrel for emergency contraception. *Obstet Gynecol* 2004; **104**: 1307–1313.
- 48 Creinin MD, Schlaff W, Archer DF, Wan L, Frezieres R, Thomas M, et al. Progesterone receptor modulator for emergency

- contraception: a randomized controlled trial. *Obstet Gynecol* 2006; **108**: 1089–1097.
- 49 Espinos-Gomez JJ, Senosiain R, Mata A, Vanrell C, Bassas L, Calaf J. What is the seminal exposition among women requiring emergency contraception? A prospective, observational comparative study. Eur J Obstet Gynecol Reprod Bio 2007; 131: 57–60.
- 50 Raymond E, Taylor D, Trussell J, Steiner MJ. Minimum effectiveness of the levonorgestrel regimen of emergency contraception. *Contraception* 2004; **69**: 79–81.
- 51 Davis KR, Weller SC. The effectiveness of condoms in reducing heterosexual transmission of HIV. *Fam Plann Perspect* 1999; **31**: 272–279.
- 52 Faculty of Family Planning and Reproductive Health Care (FFPRHC). Community Contraception Services Faculty Questionnaire. 2006. http://www.ffprhc.org.uk/pdfs/Community-Contraceptive.pdf [Accessed 4 May 2007].
- 53 National Institute for Health and Clinical Excellence. Longacting Reversible Contraception: The Effective and Appropriate Use of Long-acting Reversible Contraception (Clinical Guideline No. 30). London, UK: RCOG Press, 2005.

FACULTY MEMBERSHIP EXAMINATION
The Membership Examination (MFFP) consists of:
☐ Part 1 Multiple Choice Question Paper (MCQ)
This 11/2-hour paper consists of 50 clinical science and applied science questions.
The examination will be held in London in April and October 2008 (dates to be confirmed). Applications for April 2008 must be received by 1 January 2008 and those for October 2008 must be received by 1 July 2008. The application form and information on the Part 1 can be obtained from the Faculty of Family Planning website (www.ffprhc.org.uk).
☐ Dissertation or Case Reports
Submission of one Dissertation (10 000 words) or two Case Reports (3000 words each).
Please visit the Faculty of Family Planning website ( <b>www.ffprhc.org.uk</b> ) for the latest changes to this part of the examination, and for information on exemptions.
☐ Part 2 Examination (CRQ, MEQ, OSCE)
This all day examination consists of:
Critical Reading Question examination paper (CRQ)
Modified Essay Question examination paper (MEQ)
Objective Structured Clinical Examination (OSCE)
Applications for the <b>MFFP Part 2</b> held in <b>June 2008</b> must be received by <b>3 January 2008</b> . Please consult the revised Examination Regulations for changes to the entry requirements. Information on the Part 2 examination and the application form appear on the Faculty of Family Planning website ( <b>www.ffprhc.org.uk</b> ).
The qualification is subject to re-certification every 5 years.
For the revised MFFP Examination Regulations (December 2005), information and application forms please visit the Faculty of Family Planning website: www.ffprhc.org.uk (see Training & Exams and MFFP Member). Also available on request from: Mrs Denise Pickford, Examinations, Faculty of

Family Planning and Reproductive Health Care of the Royal College of Obstetricians and Gynaecologists, 27 Sussex Place, Regent's Park, London NW1 4RG, UK. Tel: +44 (0) 20 7724 5629.

Fax: +44 (0) 20 7723 5333. E-mail: denise@ffprhc.org.uk