A questionnaire-based audit to assess overall experience and convenience among patients using vaginal progesterone tablets (Lutigest®) for luteal phase support during IVF treatment

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Purpose: The aim of this audit was to assess the overall experience and patient convenience of vaginal progesterone tablets (Lutigest®, marketed as Endometrin® in the USA) used for luteal phase support (LPS) during in vitro fertilization (IVF) treatment.

Patients and methods: This questionnaire-based audit included responses from 100 patients undergoing IVF treatment at six IVF clinics in the UK from September 2015 to November 2016. Fourteen days after starting progesterone supplementation for LPS during their IVF treatment, patients rated overall experience and perceived convenience of the prescribed progesterone by completing a questionnaire.

Results: Of the 100 patients included, 96 received vaginal progesterone tablets for LPS. Overall, 53.1% (51/96) indicated that the progesterone tablets were “very easy” to use; 42.7% (41/96) and 44.8% (43/96) found it “very convenient” or “neither convenient or inconvenient” to administer the tablet, respectively. Overall experience with using progesterone tablets was rated as “very comfortable” by 34.4% (33/96) and “neither comfortable or uncomfortable” by 56.3% (54/96) of patients. The applicator was used by 93.8% (90/96) of patients to administer the tablet, and 86.5% (83/96) indicated that the applicator was easy to clean for repeated use. A total of 33 patients had a previous IVF cycle during which they were prescribed vaginal progesterone pessaries for LPS. Compared with progesterone pessaries, the majority found treatment with progesterone tablets to be more comfortable (60.6%; 20/33) and more convenient (57.6%; 19/33) and indicated that the progesterone tablet was their preferred progesterone formulation for LPS (60.6%; 20/33).

Conclusion: These findings offer insights into real-world patient experiences with the progesterone vaginal tablet formulation. The results suggest overall patient convenience, ease, and comfort with using progesterone vaginal tablets for LPS. The majority of patients found progesterone vaginal tablets more convenient and comfortable to use compared with progesterone pessaries.

Keywords: vaginal progesterone tablets, progesterone pessary, progesterone gel, luteal phase support, in vitro fertilization, patient experience, convenience

Introduction

Between ovulation and menstruation – the luteal phase of the menstrual cycle – the corpus luteum produces progesterone which prepares the estrogen-primed endometrium for embryo implantation. 1 During in vitro fertilization (IVF), use of gonadotropin-releasing hormone agonists and antagonists for downregulation of luteinizing hormone...
secretion may disrupt the luteal phase and lower progesterone production;2,3 this could lead to inadequate development of the endometrium and reduce chances of embryo implantation.4 To improve embryo implantation and pregnancy rates, supplementation with exogenous progesterone for luteal phase support (LPS) is an established practice for stimulated IVF cycles.5,6

Progesterone for LPS can be administered vaginally, orally, or intramuscularly.7–9 Benefits of oral progesterone are limited by poor bioavailability (due to liver first-pass metabolism) and sedative side effects.10 Intramuscular administration of progesterone is often associated with complications such as injection site pain, soreness, abscesses, and inflammatory reactions.11 Of the available routes of administration, there is increasing evidence in the literature in favor of vaginal progesterone.11 Progesterone administered vaginally bypasses liver first-pass metabolism and is delivered preferentially to the endometrium, thus resulting in higher progesterone concentrations in the endometrial tissue compared with blood serum.11–15 Pregnancy rates with vaginal progesterone are comparable with those achieved with intramuscular progesterone.16–22 In addition, compared with intramuscular progesterone, vaginal administration of progesterone is painless and does not require special equipment.22 Thus, vaginal progesterone is widely used for LPS and is generally preferred over intramuscular progesterone due to its convenience and ease of administration.20–23

Vaginally administered progesterone achieves adequate endometrial secretory transformation for LPS, and the pharmacokinetic properties are greatly dependent on the formulation used.11 Several progesterone formulations for vaginal administration are currently available — vaginal progesterone pessaries, gel, capsules, and tablets.2 Although all the different vaginal progesterone formulations contain the same active ingredient, associated side effects, inconvenience, and difficulty of use differ.24–28 Progesterone pessaries (Cyclogest®) contain natural progesterone and are commonly used for LPS during IVF procedures.29–31 However, melting of the pessary at body temperature in the vagina can lead to increased vaginal discharge, vaginal buildup, and vaginal irritation.32,33 Both progesterone gel (Crinone®) and progesterone capsules (Utrogestan®) contain micronized progesterone.34,35 However, progesterone gel is known to cause vaginal irritation,36 while progesterone capsules have been associated with local intolerance (e.g., burning, pruritus, or fatty discharge).37 In addition, progesterone capsules contain soya lecithin as an excipient which may cause hypersensitivity reactions.35

Vaginal progesterone tablets (Lutigest®, marketed as Endometrin® in the USA) contain 100 mg of micronized progesterone in a base of lactose monohydrate, adipic acid, and sodium bicarbonate.37 Decreasing the size of the progesterone particles through micronization increases the bioavailability of the hormone, which is dependent on the size of the progesterone particles in suspension. In addition, the advantage of the progesterone tablet is its unique vaginal delivery system — the effervescent vaginal tablet dissolves upon contact with vaginal secretions and disintegrates into a powder that adheres to the vaginal epithelium, thereby facilitating sustained release of progesterone.33 This allows rapid absorption of progesterone across the vaginal epithelium and achieves high concentrations of progesterone in the endometrial tissue while limiting systemic exposure and providing sustained plasma concentrations suitable for IVF treatment protocols.12,38 In healthy premenopausal women who administered 100 mg of vaginal progesterone tablets thrice daily, serum progesterone concentrations peaked at 19.8 ng/mL on the first day,37 and steady state concentrations were achieved within 24 hours.38 This peak serum level of 19.8 ng/mL was within the effective progesterone range shown to support embryo implantation in hormone replacement-cryopreserved embryo transfer.39 Compared with vaginal progesterone gel, vaginal progesterone tablets reached a higher maximum serum concentration (Cmax), achieved steady state more rapidly, produced greater systemic exposure (area under the curve [AUC]0–24), and had less between-subject variability in pharmacokinetic parameters after 5 days of treatment.38 In addition, higher endometrial progesterone concentrations were achieved with vaginal progesterone tablets compared with intramuscular progesterone.12 A Phase III clinical trial demonstrated that vaginal progesterone tablets administered at 100 mg thrice daily for LPS yielded comparable pregnancy and live birth rates with vaginal progesterone gel and was safe and well tolerated by women undergoing IVF.40

Given that the different vaginal progesterone formulations provide similar efficacy outcomes, the progesterone formulation that provides the most convenience and ease of use would be the formulation of choice for both patients and clinicians. However, studies that have attempted to assess patient convenience and experiences with vaginal progesterone formulations for LPS during IVF cycles are currently limited and the most convenient formulation to meet the highest patient compliance has not yet been elucidated.24–28 The objective of this questionnaire-based audit was to gather real-world evidence regarding patient experience and convenience with using progesterone tablets for LPS as part of their IVF treatment.
Materials and methods
Audit design and participants
This was a questionnaire-based audit conducted at six IVF clinics in the UK from September 2015 to November 2016. Standard IVF treatment protocols for each participating clinic were followed. During the audit period, women who were undergoing fresh IVF cycles at the participating clinics and who agreed to use vaginal progesterone tablets (Lutigest® [marketed as Endometrin® in the USA], Ferring Pharmaceuticals Ltd., UK) for LPS based on the patient information provided were prescribed 100 mg of progesterone tablets administered vaginally three times daily starting at oocyte retrieval.

The questionnaire was provided to women on the day of embryo transfer, and they were requested to complete the questionnaire 14 days after starting vaginal progesterone tablet treatment and to return the questionnaire by post. A total of 100 completed responses were received. The questionnaire was anonymous without any identification of the patient. Institutional review board approval was not required for this audit as it was considered a service evaluation project. Patients were not randomized, and treatment allocation was a joint decision by the clinician and patient.

Questionnaire
The questionnaire was designed to assess patients’ experiences with progesterone formulations for LPS during IVF treatment. The questionnaire comprised 11 questions (Figure S1); six questions assessed tolerability, convenience, ease of administration, and overall experience with using progesterone tablets in the current IVF cycle; for patients who had undergone a previous IVF cycle, the remaining five questions assessed their current experience with using progesterone tablets compared with the progesterone formulation prescribed in the previous IVF cycle.

Statistical analyses
Responses obtained were summarized using descriptive statistics. Responses that did not fall within the available multiple choice responses in the audit questionnaire were considered to be invalid or not reported. The chi-square test for independence was used to test for differences in the distribution of responses between naive and non-naive patients; invalid responses were excluded from the analyses. A P-value less than 0.05 was considered to be statistically significant. All analyses were conducted using Microsoft Excel 2013.

Results
Patients’ progesterone formulation prescription history
A total of 100 patients completed the questionnaire. Among these patients, 96 received progesterone tablets for LPS during their current IVF cycle in the audit period and were included in the analysis (Table 1). The remaining four patients received either progesterone pessaries ($n=3$) or progesterone capsules ($n=1$) for LPS during their current IVF cycle and were excluded from the analysis.

In the current audit, of the 96 patients who were prescribed progesterone tablets in their current IVF cycle, 57 were in their first IVF cycle (naive patients) and 39 had a previous IVF cycle in which they were prescribed a progesterone formulation for LPS (non-naive patients). Table 1 provides the details of the progesterone formulation prescription history of the audit population.

Tolerability, convenience, ease of use, and overall experience with using progesterone tablets
Patients’ assessment of convenience, ease of use, and overall experience with using progesterone tablets is shown in the following table:

Table 1 Progesterone formulation prescription history of audit population ($n=100$)

<table>
<thead>
<tr>
<th>Progesterone in the previous IVF cycle</th>
<th>Progesterone in the current IVF cycle</th>
<th>Total</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Progesterone tablet</td>
<td>Progesterone pessary</td>
</tr>
<tr>
<td>Progesterone tablet</td>
<td>2</td>
<td>0</td>
</tr>
<tr>
<td>Progesterone pessary</td>
<td>33</td>
<td>1</td>
</tr>
<tr>
<td>Progesterone capsule</td>
<td>1</td>
<td>0</td>
</tr>
<tr>
<td>Progesterone injection</td>
<td>2</td>
<td>0</td>
</tr>
<tr>
<td>Not reported</td>
<td>1</td>
<td>0</td>
</tr>
<tr>
<td>Not applicable</td>
<td>57</td>
<td>2</td>
</tr>
<tr>
<td>Total</td>
<td>96</td>
<td>3</td>
</tr>
</tbody>
</table>

Notes: *100 mg thrice daily. *400 mg twice daily. *200 mg thrice daily. Patients who did not have a previous IVF cycle.

Abbreviation: IVF, in vitro fertilization.
In response to a question about the convenience of administering vaginal progesterone tablets, 42.7% (n=41) of patients indicated that it was “very convenient” while 44.8% (n=43) described it to be “neither convenient or inconvenient” (Figure 1A). Only 10.4% (n=10) of the patients described the convenience of administering progesterone tablets to be “very difficult.” The majority of patients (53.1%; n=51) found the progesterone tablets “very easy” to use and only a few patients (10.4%; n=10) found them “very difficult” to use (Figure 1B). Overall experience with using progesterone tablets was rated as “very comfortable” by 34.4% (n=33) of patients and “neither comfortable or uncomfortable” by 56.3% (n=54) of patients (Figure 1C). Only 8.3% (n=8) of the analysis population described their overall experience with progesterone tablets to be “very uncomfortable”. Overall, 90.6% (n=87) reported experiencing vaginal discharge and 89.6% (n=86) indicated that cleaning was required more often.

Patient responses regarding convenience, ease of use, overall experience, and extra vaginal discharge with using vaginal progesterone tablets were not significantly different between naive patients and non-naive patients.

Experience with using the progesterone tablet applicator

The majority of the analysis population (93.8%; n=90) used the applicator to administer the progesterone tablets, and most (86.5%; n=83) reported that the applicator was easy to clean for repeated use. There were 24 respondents for the question “if you did not use the applicator how easy did you find it to insert the progesterone preparation?” Of these, 14 (58.3%) reported that insertion of the progesterone tablet was “very easy” without using the applicator; seven (29.2%) indicated that it was “neither easy or difficult” while three (12.5%) found it “very difficult” to insert the progesterone tablets without the applicator.

Patient responses regarding the ease of insertion of progesterone tablets without using the applicator were not significantly different between naive and non-naive patients.

Comparison of overall experience and convenience of progesterone tablets with progesterone pessaries prescribed in a previous IVF cycle

Of the 96 patients who received progesterone tablets for LPS in the current IVF cycle, 57 were in their first IVF cycle. The remaining 39 patients had a previous IVF cycle in which they were prescribed either progesterone tablets (n=2), progesterone pessaries (n=33), progesterone capsules (n=1), or progesterone injection (n=2) for LPS (Table 1). One patient could not recall the progesterone formulation prescribed for LPS in her previous IVF cycle.

Responses from the 33 patients who were prescribed progesterone pessaries in a previous IVF cycle were analyzed for comparison of patient experiences with progesterone tablets and progesterone pessaries. When asked about their previous experience with progesterone pessaries, some patients reported experiencing vaginal discharge/leakage (36.4%; n=12), vaginal buildup (15.1%; n=5), and vaginal irritation (6.1%; n=2). Compared with progesterone pessaries, the majority found treatment with progesterone tablets to be more comfortable (60.6% [progesterone tablets] vs. 30.3% [progesterone pessaries]) and more convenient (57.6% [progesterone tablets] vs. 26.1% [progesterone pessaries]).
Audit to assess patient experience and convenience with Lutigest®

Discussion

Progesterone supplementation is standard practice for LPS during IVF treatment and has been shown to improve ongoing pregnancy and live birth rates. Various progesterone formulations for LPS in IVF treatment are available (vaginal tablets, pessaries, capsules, gel, and intramuscular injections), and several comparison studies have reported no differences in pregnancy rates between the various formulations. However, besides pregnancy rates, patient experiences and preferences are also important aspects of fertility care.

Insights into patient experiences and perceptions of the various progesterone formulations can help clinicians make informed decisions when prescribing progesterone for LPS during IVF treatment and may also improve patient experience and compliance with treatment. This questionnaire-based audit of 100 patients provides a comprehensive assessment of patient-reported convenience, ease of use, and tolerability with vaginal progesterone tablets, as well as patient-reported experience with progesterone tablets in comparison with progesterone pessaries.

Overall, the majority of patients found progesterone tablets “very easy” to use and the applicator easy to clean for repeated use. Most patients (90.7%) described their overall experience with the vaginal progesterone tablets as “very comfortable” or “neither comfortable or uncomfortable,” and 87.5% found them to be “very convenient” or “neither convenient or inconvenient” to administer. Only 10.4% described the convenience of administering progesterone tablets to be “very difficult” to use and only 8.3% described their overall experience with progesterone tablets to be “very uncomfortable.” Compared with progesterone pessaries prescribed in...
a previous IVF cycle, most patients found treatment with progesterone tablets to be more convenient and more comfortable, and 60.6% indicated that the progesterone tablet was their preferred progesterone formulation.

IVF treatment success rates are influenced by patient compliance with treatment. Treatment compliance may depend on a multitude of factors including dosing complexity, dosing frequency, patient convenience, and overall experience with treatment. In the current audit, the majority of patients found vaginal progesterone tablets easy to use and comfortable to administer. In addition, despite a three-times daily dosing regimen, a significant proportion of patients found dosing of progesterone tablets to be “very convenient.” One possible reason for the perceived convenience of progesterone tablets may be its vaginal route of administration, which offers a painless and comfortable way to administer progesterone compared with intramuscular injection. A previous study by Beltsos et al reported better patient satisfaction, ease of use, and convenience with vaginal progesterone tablets compared with intramuscular progesterone. In addition, ease of cleaning of the progesterone tablet applicator for repeated use, as reported by 86.5% of patients in the current audit, may also be a contributory factor to the perceived convenience of progesterone tablet administration. Even when the progesterone tablet applicator was not used, the majority of patients still found progesterone tablet administration to be “very easy.” Considering that patient convenience and overall experience with treatment prescribed are associated with treatment compliance, the perceived convenience, comfort, and ease of administering progesterone tablets for LPS may be clinically important in influencing IVF treatment compliance and outcomes.

Enzymes, microflora, and vaginal secretions in the vagina affect the spreading and retention of vaginal pharmaceutical formulations, as well as absorption and drug release in the vagina. In the presence of vaginal moisture, solid dosage formulations should disperse in the vaginal canal immediately after insertion – this will avoid inconvenience to the users due to the progesterone vaginal formulation lying in situ in the vagina for prolonged periods and also allow absorption through the vaginal epithelium. It has also been suggested that the use of excipients and vaginal drug delivery systems that offer advantages over conventional systems would be desirable. In addition, there is a need for desirable product dispersion throughout the vagina, retention for intended intervals, and adequate release of drug. The advantage of the effervescent vaginal progesterone tablet is that it absorbs the vaginal secretions and disintegrates into an adhesive powder that adheres to the vaginal epithelium, thus facilitating sustained release.

Vaginal progesterone preparations are known to be associated with vulvovaginal side effects, with vaginal discharge being the most common and reported in over 80% of women using vaginally administered progesterone. As expected, most patients in the current audit reported experiencing extra vaginal discharge while using progesterone tablets for LPS. As the progesterone tablets used in this audit were effervescent vaginal tablets that dissolve upon contact with vaginal secretions, it is likely that patients experienced this effervescent action as vaginal discharge. It is perhaps also noteworthy that the presence of extra vaginal discharge was specifically enquired in the audit questionnaire, unlike other studies which may have taken a more passive approach. Nevertheless, most instances of vaginal discharge are normal and physiological unless accompanied by odor, discomfort, or pruritus. Misperceptions about the vaginal discharge associated with vaginal progesterone administration for LPS can lead to reluctance on the part of some health care professionals to recommend various vaginally administered progestogens. In the current audit, despite reporting vaginal discharge, most patients stated that they perceived the progesterone vaginal tablet to be comfortable, convenient, and easy to use. Detailed patient information provided by health care professionals regarding the expected vaginal discharge, reason for discharge, and how to manage it may help to prime patient expectations and further improve patient tolerance of the side effects of vaginal discharge and irritation related to vaginal progesterone preparations.

Depending on the vaginal progesterone formulation used and the excipients it contains, the incidence and consistency of vaginal discharge may differ (e.g., cloddy discharge with progesterone gel, fatty discharge with progesterone capsules, and pessaries). Incidences of vaginal burning and pruritus have been reported with the progesterone capsule, while vaginal irritation has been associated with the progesterone gel, pessary, and tablet. Notably, a trend toward less perineal irritation due to vaginal irritation was observed in patients using progesterone tablets compared with those using progesterone pessaries. As allergens such as soya lecithin and peanut oil (found in other vaginal progesterone preparations) are not used as excipients in the pharmaceutical formulation of the vaginal progesterone tablet, it may also be suitable for hypersensitive patients.

Few studies have attempted to assess and compare side effects and patient convenience between the various vaginal progesterone formulations. A recent study found no significant differences in side effects and patient convenience...
between vaginal progesterone pessaries and vaginal progesterone tablets administered twice a day.26 Our findings add to current literature comparing patient convenience between progesterone pessaries and progesterone tablets. Among patients who were prescribed progesterone pessaries in a previous IVF cycle and progesterone tablets in the current IVF cycle, most found treatment with progesterone tablets to be more convenient and more comfortable compared with progesterone pessaries. Furthermore, the majority indicated that the vaginal progesterone tablet was their preferred progesterone formulation. In the current audit, two-thirds of patients preferred the vaginal route of administration over the rectal route. Notably, rectal administration of progesterone is commonly associated with side effects such as constipation and flatulence.29,31 As route of administration may influence treatment compliance and ultimately IVF outcomes, patient preferences should be taken into consideration when prescribing a progesterone formulation for LPS.

Importantly, our findings need to be interpreted within the limitations of the audit. One limitation of the current audit was its open-label design, where randomization or blinding of participants was not performed. In addition, by nature of the audit design, patients were prescribed vaginal progesterone tablets for LPS, and direct comparison with another progesterone formulation was not possible. Nevertheless, patients who have had more than one IVF cycle provided a comparison of their experience with using vaginal progesterone tablets in their current IVF cycle with the progesterone formulation prescribed in their previous IVF cycle. It should be noted, however, that this comparison was based on retrospective recall and patient opinion, which may be limited by recall bias or partially influenced by pregnancy outcomes of the previous IVF cycle. A follow-up improved study design which examines patient perceptions in relation to pregnancy outcomes of the previous IVF cycle may help to address these potential biases. In addition, local IVF protocols were followed at each participating clinic; however, this was not expected to influence patients’ assessment of ease of use and dosing convenience with the progesterone tablets. Finally, as the recommended duration for progesterone supplementation for LPS varies widely between IVF clinics (ranges from 2 to 12 weeks after oocyte retrieval),37 patient experience with vaginal progesterone tablets for LPS beyond 14 days was not evaluated in the current audit.

Conclusion

Overall, the vaginal progesterone tablet was reported to be convenient, easy, and comfortable to use. Compared with progesterone pessaries, most patients found treatment with progesterone tablets to be more convenient and more comfortable, and the majority indicated that the progesterone tablet was their preferred progesterone formulation. Notably, the vaginal route was preferred over the rectal route for the administration of progesterone for LPS. The findings of this questionnaire-based audit provide important information on real-world patient experiences that may aid clinical decisions when selecting a progesterone formulation for LPS as part of IVF treatment.

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Author contributions

Polly Heine had full access and control to all the data in the audit. Polly Heine and Laura Sellar were involved in data collection. Sue Whitten and Priti Bajaj took responsibility for the integrity of the data and the accuracy of the data analysis. All the authors participated in the audit design, data collection process, data analyses, data interpretation, manuscript writing, revision, and approval of the manuscript for submission.

Disclosure

Sue Whitten and Priti Bajaj are employees of Ferring Pharmaceuticals, UK. The other authors report no conflicts of interest in this work.

References


**Supplementary material**

This questionnaire is designed to find out about your treatment experience when you received progesterone during your treatment cycle for luteal phase support.

Please mark x in the box for your answer

<table>
<thead>
<tr>
<th>Patient ID Number</th>
</tr>
</thead>
<tbody>
<tr>
<td>Q1. What progesterone preparation are you currently receiving?</td>
</tr>
<tr>
<td>a. Lutigest®</td>
</tr>
<tr>
<td>b. Utrogestan®</td>
</tr>
<tr>
<td>c. Cyclogest®</td>
</tr>
<tr>
<td>d. Progesterone injection</td>
</tr>
<tr>
<td>e. Crinone® gel</td>
</tr>
</tbody>
</table>

| Q2. How would you describe the convenience of administering/dosing the current progesterone preparation? |
| a. Very convenient |
| b. Neither convenient or inconvenient |
| c. Very difficult |

| Q3. How would you describe the ease and comfort of using the current progesterone preparation? |
| a. Very easy |
| b. Neither easy or difficult |
| c. Very difficult |

| Q4. How would you describe your overall experience with the current progesterone preparation? |
| a. Very comfortable |
| b. Neither comfortable or uncomfortable |
| c. Very uncomfortable |

| Q5. Were you aware of any extra vaginal discharge whilst using the current progesterone preparation |
| a. Yes |
| b. No |

Did you have to clean yourself more often during the time you used the current progesterone preparation:

| a. Yes |
| b. No |

| Q6. Did you use the Lutigest® applicator to administer the progesterone preparation? |
| a. Yes |
| b. No |

Did you find the applicator easy to clean?

| a. Yes |
| b. No |

If you did not use the applicator how easy did you find it to insert the progesterone preparation?

| a. Very easy |
| b. Neither easy or difficult |
| c. Very difficult |

Please proceed ONLY if you have had a previous IVF cycle

| Q7. In a previous IVF cycle, were you prescribed progesterone supplementation? |
| a. Yes |
| b. No |
Please proceed ONLY if you have had a previous IVF cycle

Q8. Which of the following progestogens were you prescribed in a previous cycle?
   a. Lutigest®
   b. Utrogestan®
   c. Cyclogest®
   d. Progesterone injection
   e. Crinone® gel
   f. Other (please specify) .................................................................

Q9. In a previous IVF cycle did you experience any of the following side effects?
   a. Vaginal build up
   b. Vaginal discharge/leakage
   c. Vaginal irritation
   d. Vaginal bleeding
   e. Vaginal burning
   f. Other (please specify) .................................................................

Q10. Overall, how does Lutigest® compare to the different progestogens used in previous cycles?
   a. Is Lutigest® more or less comfortable?
   b. Is Lutigest® more or less convenient and easy to use?
   c. In terms of vaginal discharge did you experience any?
   d. If yes, is the vaginal discharge less than the previous preparation?
   e. If you could choose between using a treatment vaginally or rectally, which would you prefer?

Q11. If given a choice, which progestogen would you prefer to use?
   a. Lutigest®
   b. Utrogestan®
   c. Cyclogest®
   d. Progesterone injection
   e. Crinone® gel
   f. Other (please specify) .................................................................

Thank you for completing this questionnaire.

Figure S1 Questionnaire for women who have been prescribed progesterone for luteal support as part of fertility treatment.