ATHLETES & PRESCRIBING PHYSICIANS PLEASE READ

USADA can grant a Therapeutic Use Exemption (TUE) in compliance with the World Anti-Doping Agency International Standard for TUEs. The TUE application process is thorough and designed to balance the need to provide athletes access to critical medication while protecting the rights of clean athletes to complete on a level playing field.

Included in this document is a checklist of items necessary for a complete TUE Application and the WADA Guidelines used to evaluate TUE Applications for your specific condition. (Please be aware that the TUE Committee may ask for additional information while evaluating TUE Applications). It is important that the TUE Application include all the documentation outlined in the checklist below. Please reference the included guidelines for details related to types of diagnoses, specific laboratory tests, and more.

TUE APPLICATION CHECKLIST – FEMALE INFERTILITY / POLYCYSTIC OVARIAN SYNDROME (PCOS)

☐ Complete and legible TUE Application form

☐ Copies of all relevant examinations and clinical notes from the original diagnosis through present
  o Documentation of 12-month period of unprotected intercourse (can be annotated in clinical notes) and confirmation of fertility assessment in male partner

☐ Copies of all laboratory results/reports related to the diagnosis

☐ A statement from the physician explaining why the Prohibited Substance is needed
  o Please explain why permitted alternative treatments were not effective or not appropriate/indicated for treatment
INFERTILITY/POLYCYSTIC OVARIAN SYNDROME

Introduction

Infertility is defined as the absence of pregnancy following 12 months of unprotected intercourse. Infertility may be caused by Ovulatory Dysfunction, Blocked Fallopian Tubes, Male Factor Infertility or Unexplained Causes. Ovulatory Dysfunction can be caused by hypothalamic causes, endocrinopathies (hyperprolactinemia, thyroid dysfunction) or ovarian causes (Polycystic Ovarian Syndrome (PCOS), ovarian failure). Only those causes of infertility which require a TUE will be addressed in this document.

Ovulatory Dysfunction: Polycystic Ovarian Syndrome (PCOS)

1. Diagnosis

| A. Medical history | - Absent or irregular menstrual cycles;  
|                   |   - Clinical evidence of androgen excess (hirsutism, acne). |

| B. Diagnostic criteria | (1) Hyperandrogenism: Hirsutism and/or hyperandrogenemia and  
|                       | (2) Ovarian dysfunction: Oligo-anovulation and/or polycystic ovaries and  
|                       | (3) Exclusion of other androgen excess or related disorders.  

| C. Relevant medical information | Some women with PCOS will have associated insulin resistance which may manifest as impaired glucose tolerance or overt diabetes.  

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This Guideline is reviewed annually to determine whether revisions to the Prohibited List or new medical practices or standards warrant revisions to the document. If no changes are deemed warranted in the course of this annual review, the existing version remains in force.
## 2. Medical best practice treatment

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<tbody>
<tr>
<td><strong>A. Name of prohibited substances</strong></td>
<td>First line therapy is clomiphene citrate, a weak anti estrogen, and letrozole, an aromatase inhibitor.</td>
<td><strong>Spironolactone</strong> may be used in some geographic regions of the world as a secondary treatment in the management of hirsutism caused by PCOS.</td>
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<td><strong>B. Route</strong></td>
<td>Oral</td>
<td>Oral</td>
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<tr>
<td><strong>C. Frequency</strong></td>
<td>5 days per month</td>
<td>Daily</td>
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<tr>
<td><strong>D. Recommended duration of treatment</strong></td>
<td>9 – 12 months</td>
<td>Long-term use is necessary</td>
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3. Other non-prohibited alternative treatments?

1. Clomiphene citrate
2. Letrozole
3. Spironolactone

Subcutaneous exogenous Follicle Stimulating Hormone (FSH) can be used as an alternative.

Metformin has not proven to be as effective as clomiphene or letrozole as a first line treatment. However, in women who are non-responsive to clomiphene or letrozole, or who demonstrate insulin resistance, an insulin sensitizer such as metformin may be added.

hCG and Progesterone may be used as adjuncts to first line therapy.

Diane 35 (2 mg cyproterone acetate) and Yaz (3 mg drospirenone) are two oral contraceptives with anti-androgenic effects that are used as first line therapy for the treatment of hirsutism caused by PCOS. Any oral contraceptive or the NuvaRing (11.7 mg etonogestrel) will increase sex hormone binding globulin as a result of the increased estrogen. This will decrease free unbound, circulating androgens resulting in decreased hirsutism. For more severe or long standing cases, larger doses of cyproterone acetate (25-50mg) may be necessary. In some areas of the world, oral flutamide (non-steroidal anti-androgen) is used to treat hirsutism. Hormonal therapy can be combined with physical hair removal techniques such as laser or electrolysis. A TUE may be granted for spironolactone should the athlete have proved:

The necessity [i.e. presence of hirsutism in the clinical picture of PCOS] and one or more of the following criteria:
- A contraindication to a non-prohibited method;
- An intolerance to a non-prohibited method;
- A failed response to a non-prohibited method;
- Inability to benefit from physical methods of hair removal due to prohibitive cost.
# INFERTILITY/POLYCYSTIC OVARIAN SYNDROME

## 4. Consequence to health if treatment is withheld

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<td>Significant decreased quality of life if infertility is unresolved</td>
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<td></td>
<td>Significant decreased quality of life for women with hirsutism resulting from PCOS.</td>
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## 5. Treatment monitoring

|   | Blood estrogen, and Luteinizing Hormone (LH) and ultrasound scan of the ovaries for follicular growth monitoring. | Monitoring by gynaecologist, endocrinologist or dermatologist on a yearly basis is recommended. |

## 6. TUE validity and recommended review process

|   | 2 years | 10 years TUE with an annual review by a specialist can be granted for this substance as PCOS is a lifelong condition. |

## 7. Any appropriate cautionary matters
Unexplained Infertility

1. Diagnosis

<table>
<thead>
<tr>
<th>A. Medical history</th>
<th>No pregnancy despite regular ovulatory cycles, open tubes, regular timed intercourse and normal semen analysis.</th>
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<tbody>
<tr>
<td>B. Diagnostic Criteria</td>
<td>As above</td>
</tr>
<tr>
<td>C. Relevant medical information</td>
<td>Nil</td>
</tr>
</tbody>
</table>

2. Medical best practice treatment

May be treated with clomiphene citrate (see PCOS), FSH/LH (TUE not required)

References


