

# Issues Regarding Androgen Therapy in Women – Preparations, Risks and Monitoring

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## **Testosterone Replacement Therapy**

- **Oral**
  - Methyltestosterone
  - Testosterone undecionate
- **Buccal**
- **Transdermal**
- **Creams or gels**
- **Injectable**
  - Testosterone enanthate
  - Testosterone cypionate
  - Mixed testosterone esters
  - Nandrolone decanoate
- **Subcutaneous implants**

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## Potential Adverse Effects From Testosterone

- Acne
- Hirsutism
- Virilization
- Fluid retention
- Polycythemia
- Hepatic injury
- Sleep apnea
- Lipid abnormalities
- Breast hyperplasia/neoplasia
- Endometrial hyperplasia/neoplasia
- Emotional lability

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## Monitoring Testosterone Therapy in Women

- Clinical
  - Acne
  - Hirsutism
  - Virilization
  - Breast exam
- Biochemical
  - Hematocrit
  - Lipids
- Radiographic
  - Mammography
  - Endometrial ultrasound

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