A case of true hermaphroditism in a horse

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**Anamnesis**
- 3 year old Spanish nulliparous mare
- Stallion behaviour reported
- Abnormal reproductive exam

**Reproductive Exam**

*External Exam:* Small vulva with an enlarged clitoris

*Blood:* Compatible with a stallion hormonology
- Oestradiol: 11 pg/ml
- Progesterone: < 0.03 ng/ml
- Testosterone: 242 pg/ml

*Vaginal Exam:* Palpation and speculum: Vaginal agenesis

**Ultrasound:**
- Ovaries: Left ovary => heterogeneous structure // Right ovary => not identified
- Uterus: thin structure (< 1cm)

**Complementary Exams**
- **Laparoscopy:** Gonads were found in usual ovary location and excised
- **Histopathology:** Atrophic testicular tissue with hyperplasic Leydig cells + ovarian tissue with some scarce primordial follicles in the left gonad (Ovotestis)
- **Karyotyping analysis:** 64XX

**Diagnosis:** True Hermaphroditism

**Outcome**
In absence of testosterone the stallion behaviour disappeared and the clitoris decreased in size

**Discussion**
- Clitoris enlargement is the first symptom identified in true hermaphroditism cases because of the production of testosterone by the gonads
- Normal karyotyping in this case is 64XX with or without presence of SRY gene translocation
- Vaginal agenesis can not be explain by the same syndrome