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## Appendix A: Differential Diagnosis of Hypogonadism in Men

Adapted from Bhasin et al. 2018<sup>1</sup>.

Primary hypogonadism	Secondary hypogonadism
Gonadal Disease	Hypothalamic/pituitary disease
<ul> <li>Kallmann syndrome and other congenital hypothalamic - pituitary conditions</li> <li>Cryptorchidism, myotonic dystrophy, anorchia</li> <li>Some types of cancer chemotherapy, testicular irradiation/damage, orchidectomy</li> <li>Orchitis</li> <li>Testicular trauma, torsion</li> <li>Advanced age</li> </ul>	<ul> <li>Hypothalamic/pituitary tumour</li> <li>Hemochromatosis</li> <li>Radiation exposure, Infiltrative/destructive disease of hypothalamus/pituitary</li> <li>Idiopathic hypogonadotropic hypogonadism</li> </ul>
Secondary to a distinct illness or medication	
<ul> <li>Medications (refer to Appendix B)</li> <li>End-stage renal disease</li> </ul>	<ul> <li>Hyperprolactinemia</li> <li>Medications (refer to Appendix B)</li> <li>Substance use (alcohol, marijuana, opioids)</li> <li>Systemic illness</li> <li>Nutritional deficiency/excessive exercise</li> <li>Obesity, some sleep disorders, type II diabetes mellitus</li> <li>Organ failure (liver, heart, and lung)</li> <li>Comorbid illness associated with aging</li> <li>HIV</li> <li>Severe hypothyroidism</li> </ul>

## References

1. Bhasin S, Brito JP, Cunningham GR, Hayes FJ, Hodis HN, Matsumoto AM, et al. Testosterone Therapy in Men With Hypogonadism: An Endocrine Society Clinical Practice Guideline. J Clin Endocrinol Metab [Internet]. 2018 Mar 17 [cited 2018 Mar 22]; Available from: https://academic.oup.com/jcem/advance-article/doi/10.1210/jc.2018-00229/4939465