



Basic semen analysis

Stephen Blackman and Behdad Shambayati



Summary

- Semen is a complex fluid consisting of spermatozoa and numerous organic and inorganic constituents that provide nutrition and protection for the spermatozoa during their journey through the female genital tract.
- Semen analysis is recommended for patients following a vasectomy, to ensure that no further sperm remain in the male reproductive system, and when a fertility problem is suspected.
- Semen analysis is a simple test that can prevent a lot of unnecessary investigation of the female partner.
- Semen analysis comprises a set of qualitative and quantitative measurements of spermatozoa and seminal fluid that helps the clinician to estimate semen quality.
- Standard tests include measurement of volume, pH, sperm, total sperm count, motility, morphology, vitality, and MAR test.
- Normal values of semen parameters issued by the World Health Organization (WHO) in 2010 are generally used as reference.