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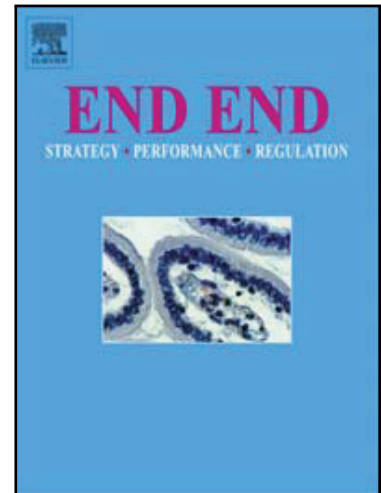
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Short title: Natural hormone replacement therapy

Natural hormone replacement therapy with a functioning ovary after the menopause: dream or reality?

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Key message

Cryopreservation of ovarian tissue at a young age followed by reimplantation may restore long-term ovarian endocrine function that can persist for more than 7 years (even more if the procedure is repeated) and prevent menopause-related conditions.

Abstract

At the dawn of humanity, it was rare to live beyond the age of 35 years, so the ovary was intended to function for a woman's entire life. Nowadays, it is not unusual for women to live into their 80s. This means that many of them spend 30–40% of their lives in the menopause at increased risk of various conditions associated with an absence of oestrogens (cardiovascular disease, bone mineral density loss). Reimplantation of frozen–thawed ovarian tissue is able to restore long-term ovarian endocrine function that can persist for more than 7 years (12 years if the procedure is repeated). If ovarian tissue reimplantation is capable of restoring ovarian

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