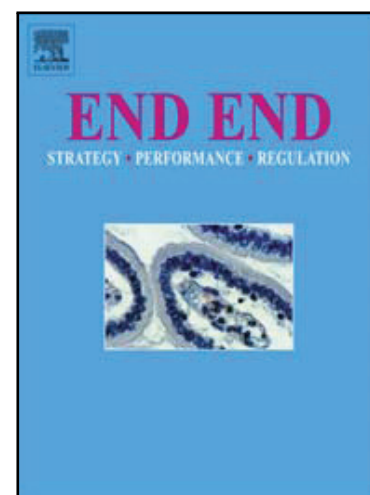


## Accepted Manuscript

### Vitamin D Deficiency as a Risk Factor for Thyroid Cancer: A Meta-analysis of Case-control studies

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**Highlights:**

- The association between vitamin D deficiency and thyroid cancer is controversial
- The levels of serum 25-hydroxyvitamin D were lower in patients with thyroid cancer preoperative than those of controls
- There is no difference when thyroid cancer patients underwent a thyroidectomy
- Vitamin D deficiency may as a risk factor for thyroid cancer

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