References


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Thirst and hydration in palliative care

SIR

I write to correct an error in my recent paper in your journal,1 and to clarify and expand a point relating to the physiology of thirst.

*Author's error*: Introduction, line 11, page 147: for six papers, read four papers.

*Physiology of thirst*: The physiological control of thirst is extremely complex, and my knowledge of it rather rusty. In touching on the subject I have made a statement that is misleading. On page 148 of my paper1 in the section on “The question of thirst” I wrote: “Does severe dehydration suppress thirst in cancer patients as it does in the healthy elderly?” In fact it is probably not dehydration that suppresses thirst in the elderly, but suppression of thirst that predisposes to dehydration.2 Phillips *et al* showed reduced thirst during fluid deprivation in seven healthy elderly men, compared with seven healthy young men.3 The reason for this was not clear but the authors postulated diminished baroreceptor and volume receptor mediated thirst since levels of the peptide hormone vasopressin, which is linked with osmoreceptors4 were not reduced. However, certain odd features in the study suggested that cognitive factors were involved, since thirst levels that were suppressed during fluid deprivation, rose during a subsequent “sham” intravenous infusion.2 Therefore the knowledge that one cannot have access to fluids, may lead to thirst suppression. The important point however is that the combination of dehydration and thirst suppression, whatever the mechanism, is potentially lethal, and could indeed lead to “an escalating spiral of decline”.1

In the context of a possible reduction in thirst perception in the dying1 it is of interest that loss of osmotic thirst has been reported in patients with multiple system atrophy.3 It is also of interest that opiates play a part in the control of vasopressin secretion,4 as may prostaglandins.5 Whether this alters thirst perception I do not know, but clearly morphine and other pain-killers used in palliative care could influence fluid-balance control in unpredictable ways.

References


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