|--|

Format: Abstract

Full text links

Support Care Cancer. 2013 Sep;21(9):2565-73. doi: 10.1007/s00520-013-1804-9. Epub 2013 May 2.



Efficacy and tolerability of two scalp cooling systems for the prevention of alopecia associated with docetaxel treatment.

Betticher DC¹, Delmore G, Breitenstein U, Anchisi S, Zimmerli-Schwab B, Müller A, von Moos R, Hügli-Dayer AM, Schefer H, Bodenmann S, Bühler V, Trueb RR.

Author information

Abstract

PURPOSE: Chemotherapy-induced alopecia is very distressing for a patient and may have an impact on treatment decisions. On docetaxel-based therapy, alopecia occurs in a substantial proportion of patients. We aimed to investigate whether two different methods of scalp cooling can prevent hair loss.

METHODS: In this open-label, prospective, nonrandomized trial, patients with solid tumors receiving docetaxel in a palliative setting were allocated according to patients' preference to short-term cooling (over 45 min postinfusion) with a Paxman PSC-2 machine (PAX), with cold cap (CC), or no cooling. The combined endpoint was alopecia World Health Organisation (WHO) III or IV or the necessity to wear a wig. Study identifier is Clinicaltrials.gov NCT01008774.

RESULTS: Two hundred thirty-eight patients were included in the trial (128 patients PAX, 71 CC, and 39 no cooling). Number of cycles (median 4) and median docetaxel doses were similar across groups (55-60 mg/day on weekly therapy, 135-140 mg/day on 3-weekly therapy). Alopecia occurred with PAX, CC, and no cooling under 3-weekly docetaxel in 23, 27, and 74% and under weekly docetaxel in 7, 8, and 17%, respectively. Overall, cooling (PAX and CC combined) reduced risk of alopecia by 78% (hazard ratio 0.22; 95% confidence interval 0.12 to 0.41). CC and PAX prophylaxis led to the same degree of prevention of alopecia. Adverse events (AE) were reported in 5% (most frequently, sensation of cold), and 30 patients (13%) discontinued cooling measures after cycle 1.

CONCLUSIONS: In this first comparison published to date, both PAX and CC offer efficacious protection against hair loss, in particular when docetaxel is administered in a 3-weekly interval.

PMID: 23636645	DOI:	<u>10.1007/s00520-013-1804-9</u>
[Indexed for MED]	INF1	

Publication types, MeSH terms, Substances, Secondary source ID	
LinkOut - more resources	