MEDICAL TRIAL FOR PREVENTION –

**Secondary Prevention of Chronic PTSD by Early and Short-Term Administration of Escitalopram: A Prospective Randomized, Placebo-Controlled, Double-Blind Trial**

[Joseph Zohar](https://pubmed.ncbi.nlm.nih.gov/?sort=date&term=Zohar+J&cauthor_id=28703951) [1](https://pubmed.ncbi.nlm.nih.gov/28703951/#full-view-affiliation-1)  [2](https://pubmed.ncbi.nlm.nih.gov/28703951/#full-view-affiliation-2) , [Leah Fostick](https://pubmed.ncbi.nlm.nih.gov/?sort=date&term=Fostick+L&cauthor_id=28703951) [3](https://pubmed.ncbi.nlm.nih.gov/28703951/#full-view-affiliation-3) , [Alzabeta Juven-Wetzler](https://pubmed.ncbi.nlm.nih.gov/?sort=date&term=Juven-Wetzler+A&cauthor_id=28703951) [2](https://pubmed.ncbi.nlm.nih.gov/28703951/#full-view-affiliation-2) , [Zeev Kaplan](https://pubmed.ncbi.nlm.nih.gov/?sort=date&term=Kaplan+Z&cauthor_id=28703951) [4](https://pubmed.ncbi.nlm.nih.gov/28703951/#full-view-affiliation-4) , [Hadar Shalev](https://pubmed.ncbi.nlm.nih.gov/?sort=date&term=Shalev+H&cauthor_id=28703951) [5](https://pubmed.ncbi.nlm.nih.gov/28703951/#full-view-affiliation-5) , [Gavriel Schreiber](https://pubmed.ncbi.nlm.nih.gov/?sort=date&term=Schreiber+G&cauthor_id=28703951) [6](https://pubmed.ncbi.nlm.nih.gov/28703951/#full-view-affiliation-6)  [7](https://pubmed.ncbi.nlm.nih.gov/28703951/#full-view-affiliation-7) , [Natalie Miroshnik](https://pubmed.ncbi.nlm.nih.gov/?sort=date&term=Miroshnik+N&cauthor_id=28703951) [6](https://pubmed.ncbi.nlm.nih.gov/28703951/#full-view-affiliation-6) , [Arieh Y Shalev](https://pubmed.ncbi.nlm.nih.gov/?sort=date&term=Shalev+AY&cauthor_id=28703951) [8](https://pubmed.ncbi.nlm.nih.gov/28703951/#full-view-affiliation-8)  [9](https://pubmed.ncbi.nlm.nih.gov/28703951/#full-view-affiliation-9) , [Dan J Stein](https://pubmed.ncbi.nlm.nih.gov/?sort=date&term=Stein+DJ&cauthor_id=28703951) [10](https://pubmed.ncbi.nlm.nih.gov/28703951/#full-view-affiliation-10) , [Soraya Seedat](https://pubmed.ncbi.nlm.nih.gov/?sort=date&term=Seedat+S&cauthor_id=28703951) [11](https://pubmed.ncbi.nlm.nih.gov/28703951/#full-view-affiliation-11) , [Sharain Suliman](https://pubmed.ncbi.nlm.nih.gov/?sort=date&term=Suliman+S&cauthor_id=28703951) [12](https://pubmed.ncbi.nlm.nih.gov/28703951/#full-view-affiliation-12) , [Ehud Klein](https://pubmed.ncbi.nlm.nih.gov/?sort=date&term=Klein+E&cauthor_id=28703951) [13](https://pubmed.ncbi.nlm.nih.gov/28703951/#full-view-affiliation-13)

Affiliations

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**Abstract**

**Objective:** Prospective studies have not identified a viable pharmacologic strategy for secondary prevention of posttraumatic stress disorder (PTSD). The authors examined whether preventive intervention via early and short-term administration of a selective serotonin reuptake inhibitor (SSRI), within 1 month of exposure to a traumatic event (before diagnosis of PTSD could be made), may reduce the severity of PTSD symptoms according to DSM-IV at 13 months' follow-up.

**Methods:** Over 25,000 screening calls to patients referred to an emergency department for a traumatic event performed between June 2006 and December 2008 yielded 353 participants who were recruited within the month following a traumatic event . Participants were randomly assigned in a double-blind design to escitalopram (n = 176) or placebo (n = 177). The per-protocol analysis comprised 198 participants (escitalopram, n = 102; placebo, n = 96) who received treatment for 12 to 24 weeks and were available for follow-up at week 56.

**Results:** The primary outcome measure, the Clinician Administered PTSD Scale (CAPS), revealed no prevention effect. However, a secondary outcome, the Pittsburgh Sleep Quality Inventory (PSQI), showed better results for the SSRI group than for the placebo group. For a subset of participants who experienced intentional trauma (missile attacks, rape, or physical assault; n = 50), the prevention effect was found on both primary and secondary measures (CAPS, PSQI and measures of depression and global illness severity).

**Conclusions:** Early and short-term administration of escitalopram was not shown to prevent PTSD, although it did improve sleep quality. In a subgroup of participants who experienced intentional trauma, however, this early-treatment approach may be effective as secondary prevention. This large study is the first to investigate the preventive effect of early administration of escitalopram on PTSD. It highlights the relevance of the type of trauma (intentional vs unintentional) to the outcome.

**Trial registration:** ClinicalTrials.gov identifier: [NCT00300313](http://clinicaltrials.gov/show/NCT00300313)​​.

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# Hydrocortisone in the emergency department: a prospective, double-blind, randomized, controlled posttraumatic stress disorder study. Hydrocortisone during golden hours

[Lior Carmi](https://pubmed.ncbi.nlm.nih.gov/?sort=date&term=Carmi+L&cauthor_id=35678177) [1](https://pubmed.ncbi.nlm.nih.gov/35678177/#full-view-affiliation-1)  [2](https://pubmed.ncbi.nlm.nih.gov/35678177/#full-view-affiliation-2) , [Joseph Zohar](https://pubmed.ncbi.nlm.nih.gov/?sort=date&term=Zohar+J&cauthor_id=35678177) [1](https://pubmed.ncbi.nlm.nih.gov/35678177/#full-view-affiliation-1) , [Tal Weissman](https://pubmed.ncbi.nlm.nih.gov/?sort=date&term=Weissman+T&cauthor_id=35678177) [1](https://pubmed.ncbi.nlm.nih.gov/35678177/#full-view-affiliation-1) , [Alzbeta Juven-Wetzler](https://pubmed.ncbi.nlm.nih.gov/?sort=date&term=Juven-Wetzler+A&cauthor_id=35678177) [3](https://pubmed.ncbi.nlm.nih.gov/35678177/#full-view-affiliation-3) , [Linda Bierer](https://pubmed.ncbi.nlm.nih.gov/?sort=date&term=Bierer+L&cauthor_id=35678177) [4](https://pubmed.ncbi.nlm.nih.gov/35678177/#full-view-affiliation-4) , [Rachel Yehuda](https://pubmed.ncbi.nlm.nih.gov/?sort=date&term=Yehuda+R&cauthor_id=35678177) [4](https://pubmed.ncbi.nlm.nih.gov/35678177/#full-view-affiliation-4)  [5](https://pubmed.ncbi.nlm.nih.gov/35678177/#full-view-affiliation-5) , [Hagit Cohen](https://pubmed.ncbi.nlm.nih.gov/?sort=date&term=Cohen+H&cauthor_id=35678177) [6](https://pubmed.ncbi.nlm.nih.gov/35678177/#full-view-affiliation-6)

Affiliations

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## Abstract

**Objectives:** A blunted response of the hypothalamic-pituitary-adrenal axis immediately after exposure to traumatic events has been proposed as a risk factor for posttraumatic stress disorder (PTSD). Accordingly, administration of hydrocortisone in the aftermath of a traumatic event is indicated. This study consisted of a randomized, placebo-controlled, double-blind trial investigating whether a single intravenous dose of hydrocortisone administered within 6 hours after exposure to trauma would reduce the incidence of PTSD at the 13-month follow-up.

**Methods:** A total of 118 consented patients with acute stress symptoms were administered a single intravenous bolus of hydrocortisone/placebo within 6 hours of the traumatic event. Blood samples were taken before hydrocortisone administration.

**Results:** At 13 months, the hydrocortisone group did not differ from the placebo group regarding PTSD prevalence or symptom severity. However, a significant interaction between time of the trauma (ie, night, when cortisol's level is low) and treatment was found. Specifically, a lower prevalence of PTSD was found at the 13-month follow-up in the hydrocortisone night group.

**Conclusions:** Administration of hydrocortisone within 6 hours of the traumatic event was not effective in preventing PTSD compared to placebo. However, nocturnal administration (when cortisol levels are low) may suggest a new venue for research.

**Keywords:** Posttraumatic stress disorder; cortisol; golden hours; hydrocortisone; hypothalamic-pituitary-adrenal axis.