Citalopram-resistant depression: cognitive therapy and medication similarly effective as second line treatments

**Question**
Cognitive therapy or pharmacotherapy as second-line for people with citalopram-resistant depression—which is more effective?

**Patients**
304 out-patients with non-psychotic major depressive disorder (clinically established diagnosis verified through DSM-IV criteria) enrolled in the Sequenced Treatment Alternatives to Relieve Depression (STAR*D) study who did not achieve remission (remission defined as Quick Inventory of Depressive Symptomatology score ≤5) with first-line citalopram treatment. This analysis included only those people who agreed to be randomised to treatment strategies (augmentations, switches or both) which would allow cognitive therapy to be compared with pharmacotherapy.

**Setting**
Primary care and psychiatric care practice settings across the USA; recruitment July 2001 to April 2004.

**Intervention**
Participants who did not achieve remission were randomised to one of seven second-line treatments: ongoing citalopram with sustained-release bupropion, buspirone, or cognitive therapy (augmentation strategies; n = 182); or discontinuing citalopram and starting therapy with sertraline, sustained-release bupropion, extended-release venlafaxine, or cognitive therapy (switch strategies; n = 122). In this pragmatic RCT, data were analysed in strata according to what treatment options participants considered acceptable. Only those strata which would allow a direct comparison of cognitive therapy (as augmentation or switch) versus pharmacotherapy were included. These were strata where participants had said they would accept “only augmentations”, “only switches”, “any treatment (except switch to cognitive therapy)”, “any treatment”, “any treatment (except medication augmentation)”, “any treatment (except switch to medication)”.

**Outcomes**
Depression remission (score ≤7 on the Hamilton Rating Scale for Depression (HAM-D)) assessed at the beginning and end of treatment through telephone interviews; time to remission.

**Patient follow-up**
Unclear; only 27/101 (27%) of people randomised to cognitive therapy (augmentation or switch) completed the full 16 sessions of scheduled treatment.

**Methods**
Design: Randomised controlled trial.
Allocation: Unclear.
Blinding: Single blind (assessors blinded).
Follow-up period: 12 weeks.

**Main Results**
There was no difference between augmentation with cognitive therapy and augmentation with medication in rate of remission from depression (remission rate: 25% with cognitive therapy vs 33% with medication; p = 0.1967). Augmentation with medication reduced time to remission (p = 0.022). There was no difference between switch to medication and switch to cognitive therapy in remission (remission rate: 25% with cognitive therapy vs 28% with medication; p = 0.6881). There was also no significant difference between groups in the time to remission (p = 0.9530). The number of people experiencing side effects was greater with medication switch, but discontinuation because of intolerance to treatment was not significantly different between switch arms (17% with cognitive therapy vs 27% with medication; p = 0.2330).

**Conclusions**
There were no appreciable differences between cognitive therapy and pharmacotherapy as second-line treatment in citalopram-resistant depression, but the study may have been underpowered to detect differences.

**Abstracted from**

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