

damage. Lithium ascorbate showed a protective effect like carnosine. Lithium carbonate revealed no detectable influence on biomolecules in the conditions of our experiment.

**Conclusion** Lithium ascorbate has a protective effect on blood plasma proteins and lipids under ethanol-induced oxidative damage of biomolecules.

**Disclosure of interest** The authors have not supplied their declaration of competing interest.

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#### EV1092

### Drug prescriptions associated with long acting. Pharmacoeconomic aspects

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**Introduction** The polypharmacy is a very controversial subject; it brings together problems of interaction between drugs, side effects, and rationality of co-prescriptions, pharmacoeconomic aspects. The long acting is useful to solve adherence to treatment but they are often prescribed in polytherapy.

**Method** The aim of this studies is to compare long-acting haloperidol, fluphenazine, risperidone and paliperidone regard to prescribing associations and pharmacoeconomy. Also we want to consider for each long-acting which and how many drugs are associated and the implications in terms of pharmacoeconomics. We examined all prescriptions (126 patients) over a period of 12 months in a mental health center, identifying which long acting had the best pharmacoeconomic profile.

**Results** Despite being the less prescribed and not being associated with other psychiatric drugs, paliperidone palmitate shows the best pharmacoeconomic profile.

**Conclusions** The costs of a drug are in relationship not only with unit price but also with the question of safety in order to oppose the overmedication.

**Disclosure of interest** The authors have not supplied their declaration of competing interest.

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#### EV1093

### Rasagiline and venlafaxine: The serotonin syndrome

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Rasagiline is a highly potent irreversible monoamine oxidase (MAO)-B inhibitor, antiparkinsonian drug that may be used with caution in patients treated with antidepressant drugs because of the possible appearance of severe adverse effects. It is presented the case report of a woman treated with rasagiline and venlafaxine that presents confusion and a serotonin syndrome. Pathogenesis, physiopathology and treatment are discussed. Growing evidence suggests that Parkinson disease and depression are linked. Antidepressant drugs and PD treatment should be used with caution because of possible drug interaction.

**Disclosure of interest** The authors have not supplied their declaration of competing interest.

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#### EV1094

### A rare instance of tardive dyskinesia with SSRI use: A case study

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**Introduction** Case presentation of a middle aged lady Mrs. C.K., who developed tardive dyskinesia (TD) after a trial of an SSRI.

**Case report** A 49-year-old Australian aboriginal lady, presented with involuntary movement of her face (bucco-linguo masticatory), movements after a 3 months trial of sertraline (maximum dose of 100 mg daily) for her depressive illness. There was no history of trials with anti-psychotics or any other medications, which may have caused the oral dyskinesias. Routine examinations including cognitive testing, EEG and MRI revealed no pathological findings. Her sertraline was ceased and she was commenced on mirtazapine 15 mg at night, which was hiked to 30 mg after 1 week and continued on this dose over the next 3 months. She exhibited good improvement in her depressive symptoms and a significant attenuation of her TD's. Involuntary movement scale rating: she was rated on the abnormal involuntary movement scale (AIMS) and showed gradual improvement in the severity of her orofacial dyskinesic movement. Her scores were—initial presentation (scored 22/36); at 4 weeks (9/36); 8 weeks (6/36) and at 16 weeks (4/36).

**Discussion** Although TD's are seen in approximately 1 to 5% of mental health patients treated with anti-psychotics (and some other medications like Levodopa, Metochlorpromide, etc.), research studies on SSRI's causing TD's are rare and few (Leo et al., 1996; Gerber et al., 1998).

**Conclusions** To alert and educate clinicians about a relatively rare adverse-effect of SSRI producing an involuntary movement disorder.

**Disclosure of interest**

The author has not supplied his/her declaration of competing interest.

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#### EV1095

### Sexual dysfunction associated with antidepressants and how to prevent it. Is vortioxetine effective?

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**Introduction** One of the most common, and many times hidden, secondary effects of antidepressant drugs use is sexual dysfunction (SD). It has been noted that as many as 20% of patients will discontinue treatment with an SSRI, with one-third of these patients doing so due to adverse reactions.

**Methodology** A review was conducted aiming to clarify the pathogenesis of sexual dysfunction in depressed patients or taking antidepressants and how to prevent and manage it. The literature search was conducted in PubMed data reviewing articles dating between 2015 and 2016.

**Results** (1) the sexual response cycle is negatively affected in individuals suffering from major depressive disorder, even before initiation of any psychotropic medication. The serotonergic system plays a largely inhibitory role on sexual desire, orgasm, and ejaculation with involvement of the hippocampus and amygdala. Tricyclic antidepressants increase the level of prolactin and indirectly suppress the level of testosterone. (2) Bupropion and vortioxetine are the only antidepressants that have level 1 evidence supporting that