Your questions about complementary medicines answered: St John’s wort

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This is the fifth article in a series providing evidence-based answers to common questions about complementary medicines from consumers and healthcare professionals.

What is St John’s wort?
Extracts of St John’s wort (SJW) or Hypericum perforatum, a perennial herb with small yellow flowers, are widely available in pharmacies and health food stores. Historically, SJW has been used for a variety of conditions including abdominal pains, alcoholism, earaches and menopausal complaints. However, the most common reason for using SJW is depression and low mood. Patients will commonly be advised to take SJW when presenting to health food stores with symptoms of depression.1 While high-quality, controlled studies found it to be effective for the treatment of mild-to-moderate depression,2–4 it has not been included in mainstream treatment guidelines because of uncertainty about appropriate doses, persistence of effect, variation in the nature of preparations and potentially serious drug interactions.5,6

Who asks about SJW?
SJW was mentioned frequently in our medicines call centre databases.1,7 There were 689 consumer queries (6.7% of all CM questions) and 367 healthcare professional queries (6.8%). The average SJW consumer caller was 47 years of age; 83% were women and most questions focused on interactions (54%), efficacy (17%) and adverse drug reactions (ADRs, 10%). Similarly, health professionals were predominantly concerned about interactions (67.3%), but much less so about ADRs (8.7%) and efficacy (2.2%).

Common consumer and health professional question
When swapping from SJW to a prescription antidepressant (or vice versa) what is the recommended washout period?
Constituents of SJW, hypericin and hyperforin, have antidepressant action and half-lives of 24–48 hours and 9 hours, respectively.2 Studies in animals have shown that the antidepressant activity of SJW is complex and mediated through a combination of mechanisms including inhibition of serotonin, noradrenaline and dopamine synaptic reuptake, as well as via the neurotransmitters glutamate and gamma-aminobutyric acid (GABA).2 Thus, SJW should not be taken with prescription antidepressants, to avoid the risk of serotonin toxicity (ie hyperreflexia, tremor, sweating, agitation, confusion, clonus and diarrhoea).8 After stopping SJW, which should be withdrawn slowly,9 a 1-week interval is recommended before starting a prescription antidepressant.9

When switching from a prescription antidepressant to SJW, the washout period is variable, depending on the metabolism of the drug.8 However, most prescription antidepressants are cleared within 1 week of ceasing medication, so it is safe to commence SJW treatment after an interval of 1 week.11 The exceptions are fluoxetine, phenelzine and tranylcypromine, which require a wait of up to 14 days.8,11

Common consumer question
Is it safe to take SJW with a prescription antidepressant?
It is not safe to take SJW with a prescription antidepressant.7 SJW is effective for depression.4 However, as its mechanism of action is similar to that of many common antidepressants that increase levels of serotonin and noradrenaline in the brain,2 combined therapy can increase the risk of symptoms associated with serotonin toxicity (ie hyperreflexia, tremor, sweating, agitation, confusion, clonus and diarrhoea).8

Common health professional question
What is the effect of SJW on the oral contraceptive pill?
SJW should not be taken with the combined oral contraceptive (COC) pill as it can reduce the effectiveness of COCs and increases the risk of unintended pregnancy. SJW contains hypericin and hyperforin, extracts of which have been reported to induce the cytochrome P450 enzymes CYP1A2, CYP2C9 and CYP3A4, and increase intestinal P-glycoprotein expression.12–14 These dose-related actions stimulate the liver to break down the oestrogen and progesterone constituents of the COC pill more rapidly, potentially making COCs less effective and increasing the chance of unintended pregnancy.14–20 There have been several case reports of unplanned pregnancies when these medications have
been taken regularly and long term. Clinical studies indicate that CYP3A activity returns gradually to the basal level approximately 1 week after cessation of SJW. Further resources

- http://www.australianprescriber.com/

References


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