

**eTable 1. The search strategy**

<p>Pubmed</p> <p>(Problem solving therapy OR Problem solving intervention OR Problem solving therapies OR PST) AND (depress* OR dysphor* OR melanchol* OR antidepress*) AND (random* OR sham OR placebo OR control) AND (older adults OR elderly OR aged OR aging)</p> <p>("Problem solving therapy"[Title/Abstract] OR "Problem solving intervention" [Title/Abstract] OR "Problem solving therapies" [Title/Abstract] OR "PST" [Title/Abstract]) AND (depress*[Title/Abstract] OR dysphor*[Title/Abstract] OR melanchol*[Title/Abstract] OR antidepress*[Title/Abstract]) AND ("older adults" [Title/Abstract] OR elderly[MeSH] OR aged[MeSH] OR aging[Title/Abstract])</p>
<p>Cochrane Library</p> <p>(Problem solving therapy OR Problem solving intervention OR Problem solving therapies OR PST) AND (depress* OR dysphor* OR melanchol* OR antidepress*) AND (older adults OR elderly OR aged OR aging)</p>
<p>PsycINFO</p> <p>(Problem solving therapy OR Problem solving intervention OR Problem solving therapies OR PST) AND (depress* OR dysphor* OR melanchol* OR antidepress*) AND (older adults OR elderly OR aged OR aging)</p>
<p>Embase</p> <p>('problem solving therapy'/exp OR 'problem solving therapy' OR (problem AND solving AND ('therapy'/exp OR therapy)) OR 'problem solving intervention' OR (problem AND solving AND ('intervention'/exp OR intervention)) OR 'problem solving therapies' OR (problem AND solving AND therapies) OR pst) AND (depress* OR dysphor* OR melanchol* OR antidepress*) AND ('older adults'/exp OR 'older adults' OR (older AND ('adults'/exp OR adults)) OR 'elderly'/exp OR elderly OR 'aged'/exp OR aged OR 'aging'/exp OR aging)</p> <p>('problem solving therapy'/exp OR 'problem solving intervention' OR 'problem solving therapies' OR pst) AND (depress* OR dysphor* OR melanchol* OR antidepress*) AND ('older adults' OR 'elderly'/exp OR 'aged'/exp OR 'aging'/exp)</p>