**Supplement 1:**

**Search methodology for identification of studies**

A systematic search of the biomedical literature was performed in November 2015 using the following databases: PubMed (NLM, 1945-2015), Embase (Elsevier, 1974-2015), CINAHL (EBSCO, 1981-2015), PsycInfo (OVID, 1806-2015), and Cochrane CENTRAL (Wiley, 1966-2015). The search was updated in October 2017 and September 2018.

The overall search strategy consisted of three parts that were then combined with Boolean operators. The first two parts were intended to identify all citations that discussed pharmacological anti-depressive agents, first using broader and narrower subject headings and keyword terms describing this class of drugs. In part two, we searched for subject headings and keywords describing depression/depressive disorder combined with the Boolean operator AND to concepts describing drug therapy in general. These two first search sets were then combined as synonymous concepts for antidepressants using the Boolean operator OR.

For the third part of the search strategy, subject headings and keyword terms describing carcinoid tumors/syndrome were combined as synonyms using the Boolean operator OR. In PubMed, CINAHL, and Cochrane CENTRAL, the “carcinoid” concept search term string was expanded to also include terms for the broader “neuroendocrine tumors”. This third part of the search strategy was then combined to the rest of the search strategy using the Boolean operator AND, resulting in a final set of citations that mentioned both the carcinoid and the anti-depressive agent concepts.

In all databases, controlled vocabulary was used whenever available, with the exception of Cochrane CENTRAL, where only keywords were used. We searched for articles in all available languages and with no date or publication type restrictions. The PubMed and Embase search results were limited to “Human” with the intent of excluding pre-clinical studies.

**Search Terms Used in Each Database:**

**PubMed:** (Filters: Humans)

((((("Antidepressive Agents"[Mesh] OR "Antidepressive Agents" [Pharmacological Action] OR "Antidepressive Agents, Second-Generation"[Mesh] OR "Antidepressive Agents, Tricyclic"[Mesh] OR "Antidepressive Agents, Tricyclic" [Pharmacological Action] OR "Antidepressive Agents, Second-Generation" [Pharmacological Action] OR "Adrenergic Uptake Inhibitors"[Mesh] OR "Monoamine Oxidase Inhibitors"[Mesh]) OR "Serotonin Uptake Inhibitors"[Mesh] OR "Serotonin Uptake Inhibitors" [Pharmacological Action] OR "noradrenalin uptake inhibitor" OR "triple reuptake inhibitor" OR “SNRI” OR “MAOI” OR “tetracyclic antidepressant agent”) OR (("antidepressant" OR "antidepressants" OR "anti-depressant" OR "anti-depressants" OR "antidepression" OR "anti-depression" OR "anti-depressive" OR "antidepressive" OR "thymoleptic" OR "depressive disorder"[MeSH Terms] OR "depression"[MeSH Terms]) AND ("agent" OR "agents" OR "drug therapy" OR “drug” OR “drugs” OR “therapy” OR “therapeutic” OR "medication")))) AND Humans[Mesh])) AND ((((("Carcinoid Tumor"[Mesh] OR "Malignant Carcinoid Syndrome"[Mesh] OR "Carcinoid Tumors, Intestinal" [Supplementary Concept] OR "carcinoid" OR "Neuroendocrine Tumors"[Mesh] OR "neuroendocrine tumors")))))

**EMBASE:** (Filters: Humans)

(((('antidepressant agent'/de OR 'monoamine oxidase inhibitor'/de OR 'noradrenalin uptake inhibitor'/de OR 'serotonin uptake inhibitor'/exp OR 'tetracyclic antidepressant agent'/exp OR 'serotonin noradrenalin reuptake inhibitor'/exp OR 'triple reuptake inhibitor'/exp) OR (('antidepressant' OR 'antidepressants' OR 'anti-depressant' OR 'anti-depressants' OR 'antidepression' OR 'anti-depression' OR 'anti-depressive' OR 'antidepressive' OR 'thymoleptic' OR 'depressive disorder' OR 'depression') AND ('agent' OR 'agents' OR 'drug therapy' OR 'drug' OR 'drugs' OR 'therapy' OR 'therapeutic' OR 'medication'))) AND ('carcinoid syndrome'/exp OR 'carcinoid'/exp OR 'carcinoid')) AND [humans]/lim)

**PsycINFO:**

((exp antidepressant drugs/ or exp serotonin norepinephrine reuptake inhibitors/ or exp tricyclic antidepressant drugs/ or exp monoamine oxidase inhibitors/) OR (("Serotonin Uptake Inhibitors" or "noradrenalin uptake inhibitor" or "triple reuptake inhibitor" or SNRI or MAOI or "tetracyclic antidepressant agent") OR ((antidepressant or antidepressants or anti-depressant or anti-depressants or antidepression or anti-depression or anti-depressive or antidepressive or thymoleptic or depression) and (agent or agents or drug therapy or drug or drugs or therapy or therapeutic or medication)) AND “carcinoid”)

**CINAHL:**

((MH "Antidepressive Agents+") OR (MH "Antidepressive Agents, Second Generation+") OR (MH "Antidepressive Agents, Tricyclic+") OR (MH "Adrenergic Uptake Inhibitors+") OR (MH "Monoamine Oxidase Inhibitors+") OR (MH "Serotonin Uptake Inhibitors+") OR "noradrenalin uptake inhibitor" OR "triple reuptake inhibitor" OR “SNRI” OR “MAOI” OR “tetracyclic antidepressant agent” OR (("antidepressant" OR "antidepressants" OR "anti-depressant" OR "anti-depressants" OR "antidepression" OR "anti-depression" OR "anti-depressive" OR "antidepressive" OR "thymoleptic" OR (MH "Depression+")) AND ("agent" OR "agents" OR "drug therapy" OR “drug” OR “drugs” OR “therapy” OR “therapeutic” OR "medication"))) AND ((MH "Carcinoid Tumor+") OR (MH "Malignant Carcinoid Syndrome") OR “carcinoid” OR (MH "Neuroendocrine Tumors") OR "neuroendocrine tumors"))((MH "Antidepressive Agents+") OR (MH "Antidepressive Agents, Second Generation+") OR (MH "Antidepressive Agents, Tricyclic+") OR (MH "Adrenergic Uptake Inhibitors+") OR (MH "Monoamine Oxidase Inhibitors+") OR (MH "Serotonin Uptake Inhibitors+") OR "noradrenalin uptake inhibitor" OR "triple reuptake inhibitor" OR “SNRI” OR “MAOI” OR “tetracyclic antidepressant agent” OR (("antidepressant" OR "antidepressants" OR "anti-depressant" OR "anti-depressants" OR "antidepression" OR "anti-depression" OR

**Cochrane CENTRAL:**

(("Antidepressive Agents" OR "Tricyclic Antidepressive Agents" OR "Adrenergic Uptake Inhibitors" OR "Monoamine Oxidase Inhibitors" OR "Serotonin Uptake Inhibitors" OR "noradrenalin uptake inhibitor" OR "triple reuptake inhibitor" OR SNRI OR MAOI OR "tetracyclic antidepressant agent") OR ((antidepressant OR antidepressants OR anti-depressant OR anti-depressants OR antidepression OR anti-depression OR anti-depressive OR antidepressive OR thymoleptic OR "depressive disorder" OR depression) AND (agent OR agents OR "drug therapy" OR drug OR drugs OR therapy OR therapeutic OR medication))) AND ("Carcinoid Tumor" OR "Carcinoid Syndrome" OR carcinoid OR "neuroendocrine tumors"))