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# 深度索引下Embase中的生物医学文献检索



## 关键词检索—说难不难，说易不易

- 常见的医学文献检索需求

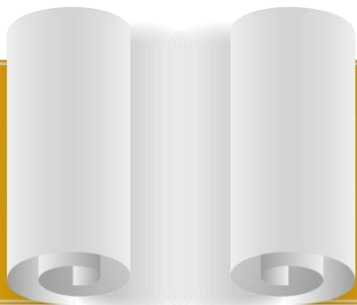
- SSRI（选择性血清素回收抑制剂）治疗抑郁症是否会增加自杀风险？
- 在皮肤上使用局部麻醉剂是否会缓解新生儿静脉穿刺时的疼痛？
- 单克隆抗体纯化时，聚合体去除，宿主细胞去除

用相关关键词，在一个尽可能大的数据库中检索是常见的解决手段

# 关键词检索—说不完的“矛”与“盾”

## 同义词

常见的解决方案：  
用词表对同义词进行管理

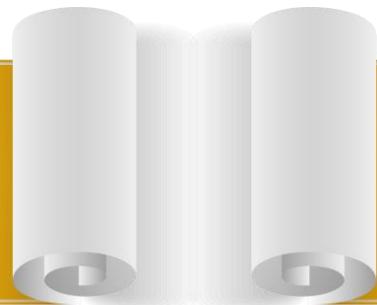


## 逻辑关系

常见的解决方案：  
用布尔运算符对检索式进行管理

## 分类学

常见的解决方案：  
用学科分类进行词表管理



## 关联度

人工进行手动关联

## 前述问题的分解

命题：使用SSRI（选择性血清素回收抑制剂）治疗抑郁症是否会增加自杀风险？

### 同义词

Serotonin Uptake Inhibitor:  
SSRI, selective serotonin reuptake inhibitor,  
serotonin specific reuptake inhibitor.....

### 逻辑关系

And, Or, Not

### 分类学

Serotonin Uptake Inhibitor :  
Amfebutamone  
Chlorphentermine  
.....

### 关联度

人工进行手动关联  
SSRI, 抑郁症, 自杀这3者之间关联的  
建立



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选择一个尽可能大而全的数据库是最基本的要求



# Embase.Com介绍

- Embase.Com是领先的生物医学文献数据库，具有最全面的期刊和会议报道，生命科学索引体系和强大的搜索引擎，能帮助科研人员从错综复杂的全文中快速定位最关关键的内容。



Pharma



A&G



Medical  
Devices



# Embase.Com中的内容相比Medline中的内容，更加全面及时

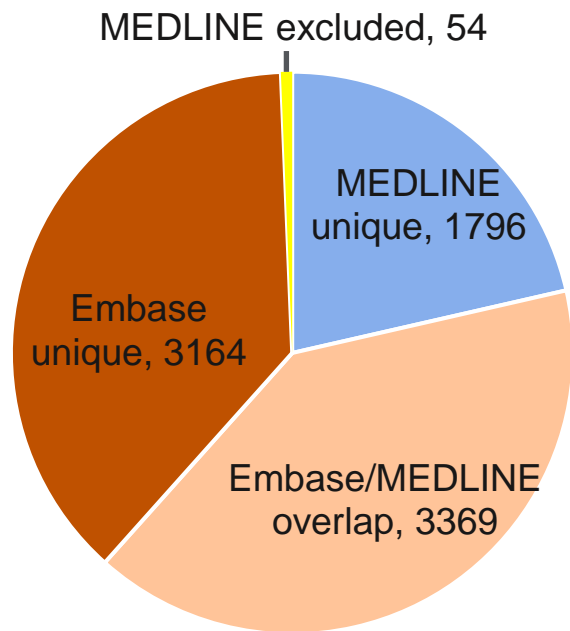
## Embase.Com

- 生物医学与健康，专注于药理学、毒理学、药物和医疗器械
- 8,329 本刊
- 11,500 会议, 3.6M 会议摘要
- 37M+ 记录
- 52% Europe
- 27% North America (check NA + SA)
- 13% Asia-Pacific
- 包括超过98%的MEDLINE内容，以及近2900种独特的期刊

## Medline

- 生物医学和健康，包括护理和牙科
- 5,269 本刊
- 无会议记录覆盖
- 26M+ 记录
- 51% Europe
- 38% North America
- 7% Asia-Pacific
- 自2020年3月以来，Medline中仅有不到60本刊，未被Embase收录（因2019年新规定，所有期刊收录均需重新授权，目前该60本刊还未收到回复）

## Embase.Com中的覆盖范围：MEDLINE和Embase unique



### Embase.Com contains:

- Embase.com中含有超过99%的MEDLINE
- Embase编录了6,533种期刊的索引
- 5,165种活跃的MEDLINE期刊
  - 1796是MEDLINE唯一的，Embase将MeSH索引转换为Emtree索引
  - 对于3369种与Embase索引重叠的期刊，会将PubMed的索引内容传递给Embase，同时进行标记



# Embase包含更多非英语内容

Language*	Total Embase (per year) <sup>1</sup>	MEDLINE unique (per year) <sup>2</sup>	Unique in Embase <sup>3</sup>
English	1,984,650	393,142	616,869
Chinese	26,573	10,719	12,032
French	17,930	3,335	8,998
Spanish	15,832	4,349	4,682
Japanese	3,950	1,473	1,189
Russian	6,861	3,955	2,287
Portuguese	4,651	3,196	366
Polish	1,566	385	406
Turkish	2,368	150	1,084
Korean	333	169	159

Search query:

- 1) [1-1-2019]/sd NOT [1-1-2020]/sd AND [english]/lim
- 2) [1-1-2019]/sd NOT [1-1-2020]/sd AND [english]/lim AND [medline]/lim NOT (([embase]/lim AND [medline]/lim) NOT ([embase classic]/lim AND [medline]/lim))
- 3) [1-1-2019]/sd NOT [1-1-2020]/sd AND [english]/lim AND [embase]/lim NOT (([embase]/lim AND [medline]/lim))

\*Searched in Embase.com (without Embase classic) for the year 2019



## Embase包含更多的随机对照试验，尤其是非英语记录

Language	Embase.com <sup>1</sup>	MEDLINE <sup>2</sup> (PubMed)	Embase Advantage	Percent
Chinese	12,753	8,804	3,949	45
French	3,545	2,919	626	21
Spanish	3,376	2,439	937	38
Japanese	2,341	1,263	1,078	85
Russian	2,347	2,179	168	8
Portuguese	1,438	842	596	71
Polish	586	381	205	54
Turkish	1,104	116	988	852
Korean	207	89	118	133

- [1] Search query in Embase: [chinese]/lim AND [randomized controlled trial]/lim
- [2] Search query in PubMed: (((("1000/1/1"[Date - MeSH] : "3000"[Date - MeSH])) ) AND (Chinese[Language])) AND ("Randomized Controlled Trial"[Publication Type])
- then filter Journal = MEDLINE



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但是：  
覆盖全面并不能解决主题检索中的所有问题



# Embase中的词表Emtree是解决关键词检索问题的核心工具



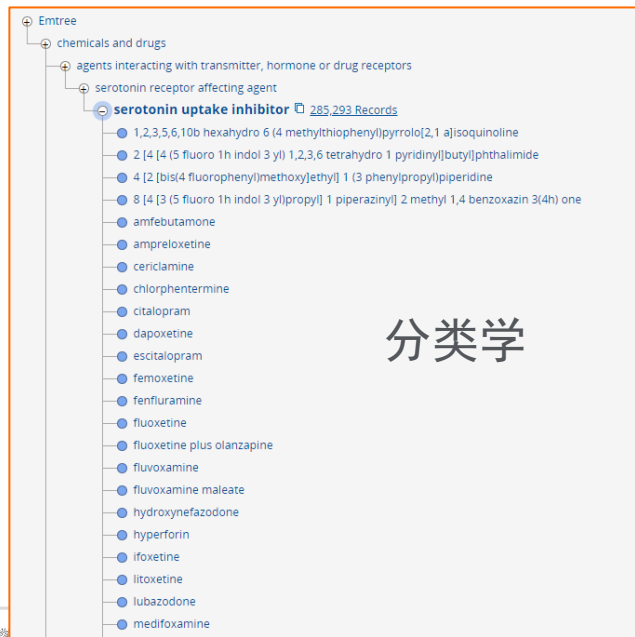
- Emtree
- 使用自然语言术语
- >87,000 推荐词条
  - >33,000 药物词条, >13,000 器械词条
- ~420,000 同义词
- 包含所有的MeSH terms
- 每年3次更新



- Medical Subject headings (医学主题词)
- 术语可能是倒置的(e.g. leukemia, myeloid)
- ~29,000 描述词 (headings)
  - 药物词条, 无器械词条
- ~247,000 supplementary concepts
- 一年更新1次

# 前述问题在Embase中的体现

命题：**SSRI（选择性血清素回收抑制剂）** 治疗抑郁症是否会增加**自杀**风险？



## 分类学

### Embase索引建立步骤:

1. Emtree标准化所有的提取词
2. 通过词表的解析，了解上下位关系

#### History

This term was added to Emtree in 1992

#### Synonyms

antidepressants, serotonin specific reuptake inhibitors; selective serotonin reuptake inhibitor; serotonin reuptake inhibitor; serotonin specific reuptake inhibitor; serotonin specific reuptake inhibitors; serotonin uptake inhibitors; SSRI; SSRI antidepressant

#### Dorland's dictionary

selective serotonin reuptake inhibitor = any of a group of compounds that inhibit the inactivation of serotonin by blocking its absorption in the central nervous system, but that have only weak or no effects on neuronal uptake of norepinephrine and dopamine; used to treat depressive, obsessive-compulsive, and panic disorders.

Definition from *Dorland's Medical Dictionary*, 32nd edition, copyright © 2011 by Elsevier. For more information please go to [www.dorlands.com](http://www.dorlands.com)

## 同义词

# Embase中的三重链接很好的解决了药物，疾病，不良反应之间的关联问题

The screenshot displays the Embase search interface. At the top, a search query is shown: `('depression/exp OR 'central depression' OR 'clinical depression' OR 'depression' OR 'depressive disease' OR 'depressive disorder' OR 'depressive episode' OR 'depressive illness' (serotonin uptake inhibitor/exp OR 'ssri' OR 'ssri antidepressant' OR 'antidepressants, serotonin specific reuptake inhibitors' OR 'selective serotonin reuptake inhibitor' OR 'serotonin inhibitors') AND ('suicide/exp OR 'completed suicide' OR 'self killing' OR 'suicidal poisoning' OR 'suicide' OR 'suicide, completed')`. Below the query, there are navigation options like 'Search', 'Mapping', 'Date', 'Sources', 'Fields', 'Quick limits', 'EBM', 'Pub. types', 'Languages', 'Gender', 'Age', and 'Animal'. The 'Results Filters' section includes 'Expand', 'Collapse all', and 'Apply'. A 'History' section shows the current search with 5,581 results. The 'Results' section is expanded to show 'Key subheadings' and 'Side effect'. The 'Key subheadings' table lists 'drug therapy' (115) and 'side effect' (475). The 'Side effect' table lists various side effects, with 'serotonin uptake inhibitor' highlighted (58). The 'Diseases' list on the left includes 'depression' (3664), 'suicide' (2750), 'suicide attempt' (2346), 'major depression' (1670), 'suicidal ideation' (1067), 'side effect' (951), 'insomnia' (802), 'mental disease' (795), 'anxiety disorder' (780), and 'More' (Export). The 'Devices' section is also visible, with '重链接' (Double link) and 'Floating Subheadings' options.

## Embase索引建立步骤:

1. 构建三重链接，建立关联
2. 通过Subheading构建两个词之间的关系。

## 前述问题在Embase中的体现

命题：**SSRI（选择性血清素回收抑制剂）** 治疗抑郁症是否会增加**自杀**风险？

Diseases	
<input type="checkbox"/> depression	Details ▶ 3664
<input type="checkbox"/> suicide	Details ▶ 2750
<input type="checkbox"/> suicide attempt	Details ▶ 2346
<input type="checkbox"/> major depression	Details ▶ 1670
<input type="checkbox"/> suicidal ideation	Details ▶ 1067
<input type="checkbox"/> side effect	Details ▶ 951
<input type="checkbox"/> insomnia	Details ▶ 802
<input type="checkbox"/> mental disease	Details ▶ 795
<input type="checkbox"/> anxiety disorder	Details ▶ 780
+ More	> Export

Key subheadings	
<input type="checkbox"/> drug therapy	115
<input type="checkbox"/> side effect	475

使用Embase中的三重链接，可以将**疾病**，**药物**，**不良反应**的内在关系有机的联系起来

Side effect	
type any side effect (autocomplete)	
<input type="checkbox"/> all	
<input type="checkbox"/> antidepressant agent	60
<input checked="" type="checkbox"/> serotonin uptake inhibitor	58
<input type="checkbox"/> fluoxetine	47
<input type="checkbox"/> paroxetine	40
<input type="checkbox"/> varenicline	33
<input type="checkbox"/> venlafaxine	31
<input type="checkbox"/> citalopram	30
<input type="checkbox"/> sertraline	29
<input type="checkbox"/> amfebutamone	27
<input type="checkbox"/> rimonabant	21
<input type="checkbox"/> duloxetine	20
<input type="checkbox"/> escitalopram	17
<input type="checkbox"/> mirtazapine	17
<input type="checkbox"/> tricyclic antidepressant agent	12

# 深度索引后检索到的一条比较有意思的文献

Translated Title

**Antidepressant use and risk of **suicide** and attempted **suicide** or self harm in people aged 20 to 64: Cohort study using a primary care database**

BMJ (Online) 2015 350 Article Number h517

Translated Abstract

Objective To assess the associations between different antidepressant treatments and the rates of **suicide** and attempted **suicide** or self harm in people with **depression**. Design Cohort study. Setting Patients registered with UK general practices contributing data to the QResearch database. Participants 238 963 patients aged 20 to 64 years with a first diagnosis of **depression** between 1 January 2000 and 31 July 2011, followed up until 1 August 2012. Exposures Antidepressant class (tricyclic and related antidepressants, selective serotonin reuptake inhibitors, other antidepressants), dose, and duration of use, and commonly prescribed individual antidepressant drugs. Cox proportional hazards models were used to calculate hazard ratios adjusting for potential confounding variables. Main outcome measures **Suicide** and attempted **suicide** or self harm during follow-up. Results During follow-up, 87.7% (n=209 476) of the cohort received one or more prescriptions for antidepressants. The median duration of treatment was 221 days (interquartile range 79-590 days). During the first five years of follow-up 198 cases of **suicide** and 5243 cases of attempted **suicide** or self harm occurred. The difference in **suicide** rates during periods of treatment with tricyclic and related antidepressants compared with selective serotonin reuptake inhibitors was not significant (adjusted hazard ratio 0.84, 95% confidence interval 0.47 to 1.50), but the **suicide** rate was significantly increased during periods of treatment with other antidepressants (2.64, 1.74 to 3.99). The hazard ratio for **suicide** was significantly increased for mirtazapine compared with citalopram (3.70, 2.00 to 6.84). Absolute risks of **suicide** over one year ranged from 0.02% for amitriptyline to 0.19% for mirtazapine. There was no significant difference in the rate of attempted **suicide** or self harm with tricyclic antidepressants (0.96, 0.87 to 1.08) compared with selective serotonin reuptake inhibitors, but the rate of attempted **suicide** or self harm was significantly higher for other antidepressants (1.80, 1.61 to 2.00). The adjusted hazard ratios for attempted **suicide** or self harm were significantly increased for three of the most commonly prescribed drugs compared with citalopram: venlafaxine (1.85, 1.61 to 2.13), trazodone (1.73, 1.26 to 2.37), and mirtazapine (1.70, 1.44 to 2.02), and significantly reduced for amitriptyline (0.71, 0.59 to 0.85). The absolute risks of attempted **suicide** or self harm over one year ranged from 1.02% for amitriptyline to 2.96% for venlafaxine. Rates were highest in the first 28 days after starting treatment and remained increased in the first 28 days after stopping treatment. Conclusion Rates of **suicide** and attempted **suicide** or self harm were similar during periods of treatment with selective serotonin reuptake inhibitors and tricyclic and related antidepressants. Mirtazapine, venlafaxine, and trazodone were associated with the highest rates of **suicide** and attempted **suicide** or self harm, but the number of **suicide** events was small leading to imprecise estimates. As this is an observational study the findings may reflect indication biases and residual confounding from severity of **depression** and differing characteristics of patients prescribed these drugs. The increased rates in the first 28 days of starting and stopping antidepressants emphasise the need for careful monitoring of patients during these periods.

© BMJ Publishing Group Ltd 2015.

Embase很好的将SSRI，治疗Depression，以及带来的不良反应Suicide很好的结合起来

serotonin uptake inhibitor



Key Subheadings:

adverse drug reaction

automutilation, **suicide** attempt, **suicide**

drug comparison

monoamine oxidase inhibitor, tricyclic antidepressant agent

**drug therapy**

**depression**

Other Subheadings:

drug analysis, pharmacoeconomics



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# 检索步骤

The image displays the Embase PICO Search interface, which is used for constructing and executing complex search strategies. The interface is divided into several sections:

- Navigation:** Includes the Embase logo, search options (Search, Emtree, Journals, Results, My tools, Register, Login), and a notification bell.
- PICO Search Header:** A dark blue bar with the text "PICO Search".
- Search Strategy Construction:** A central area where users define search terms for Population, Intervention, Comparison, and Outcome. Each term is entered in a dropdown menu, and the number of synonyms is displayed (e.g., "depression /exp + 13 synonyms :all").
- Find best term:** A sidebar on the left with a tree view of Emtree categories. The "suicide" term is highlighted under "diseases" and "suicidal behavior".
- Default search strategy:** A section on the right showing the selected search strategy: `/mj /de /exp /br`.
- Results:** A section on the right showing the search results. It includes a search bar, filters (Sources, Drugs, Diseases, Devices, etc.), and a list of results. The first result is: "Bipolar depression: a major unsolved challenge" by Bellazzini R.J., Varigos G.H., Tonello L. (2020).

# 寻找“SSRI”和“抑郁”之间的关系

**Results Filters**

+ Expand — Collapse all [Apply >](#)

Sources [v](#)

Drugs [v](#)

Diseases [^](#)

- depression [Details ▶ 3664](#)
- suicide [Details ▶ 2750](#)
- suicide attempt [Details ▶ 2348](#)
- major depression [Details ▶ 1672](#)
- suicidal ideation [Details ▶ 1067](#)
- side effect [Details ▶ 951](#)
- insomnia [Details ▶ 802](#)
- mental disease [Details ▶ 795](#)
- anxiety disorder [Details ▶ 780](#)

[Click on 'Apply' to apply your selection](#)

+ More [> Export](#)

**Key subheadings** [x](#)

- drug therapy **2308**
- side effect **420**

**Drug therapy** [x](#)

type any drug therapy (autocomplete) [x](#)

- all
- antidepressant agent **289**
- serotonin uptake inhibitor **286**
- fluoxetine **262**
- sertraline **203**
- venlafaxine **201**
- citalopram **190**
- paroxetine **189**
- escitalopram **149**
- tricyclic antidepressant agent **140**
- mirtazapine **138**
- amfebutamone **104**
- duloxetine **94**
- amitriptyline **82**
- serotonin noradrenalin reuptake inhibitor **78**
- imipramine **70**
- trazodone **63**
- nortriptyline **59**
- clomipramine **56**
- fluvoxamine **56**
- monoamine oxidase inhibitor **52**
- lithium **41**
- desipramine **40**

[Export](#) [Apply >](#)

**Embase®** Search Entree Journals **Results** My tools Register Login [!11](#) [0](#)

**Results**

#1 AND 'depression'/drug therapy/serotonin uptake inhibitor

[Search >](#) [Mapping v](#) [Date v](#) [Sources v](#) [Fields v](#) [Quick limits v](#) [EBM v](#) [Pub. types v](#) [Languages v](#) [Gender v](#) [Age v](#) [Animal v](#) [Search tips v](#)

**Results Filters** [+ Expand](#) [- Collapse all](#) [Apply >](#)

- History [Save](#) [Delete](#) [Print view](#) [Export](#) [Email](#) [Combine >](#) using  And  Or [^ Collapse](#)
- #1 **#1 AND 'depression'/drug therapy/serotonin uptake inhibitor'** **286** **5,584**

Sources [v](#)

Drugs [v](#)

Diseases [v](#) **286 results for search #2** [Set email alert](#) [Set RSS feed](#) [Search details](#) [Index miner](#)

Devices [v](#)

Results [View](#) [Print](#) [Export](#) [Email](#) [Order](#) [Add to Clipboard](#) **1 — 25** [>](#)

[Select number of items v](#) Selected: 0 (0/25) [Show all abstracts](#) [Sort by:](#)  Relevance  Publication Year  Entry Date

**1** COVID-19, interferons, and depression: A commentary  
Shader R I  
*Psychiatry Research* 2020 291 Article Number 113198 Cited by: 2  
[Embase MEDLINE](#) [v Abstract](#) [v Index Terms](#) [v View Full Text](#) [Similar records >](#)

**2** Heightened reactivity to uncertain threat as a neurobehavioral marker of suicidal ideation in individuals with depression and anxiety  
Lieberman L, Petrey K, Shankman SA, Phan KL, Gorka SM  
*International journal of psychophysiology* 2020 155 99-108 Cited by: 0  
[Embase MEDLINE](#) [v Abstract](#) [v Index Terms](#) [v View Full Text](#) [Similar records >](#)

**3** Suicide Screening in Sturge-Weber Syndrome: An Important Issue in Need of Further Study  
Sebold AJ, Ahmed A S, Ryan T C, Cohen B A, Jampal H D, Suskauer S J, Zabel T A, Cori A M, Rybczynski S  
*pediatric neurology* 2020 115 100-105 Cited by: 0  
[Embase MEDLINE](#) [v Abstract](#) [v Index Terms](#) [v View Full Text](#) [Similar records >](#)

Conference Abstracts [v](#)

# 继续寻找“SSRI”和“自杀”之间的关系

The image shows a search interface with three main panels:

- Results Filters:** Includes 'Sources' and 'Drugs'. Under 'Drugs', 'serotonin uptake inhibitor' is selected with 286 results. Other drugs listed include antidepressant agent (146), tricyclic antidepressant agent (129), fluoxetine (117), paroxetine (93), venlafaxine (92), citalopram (90), and sertraline (86).
- Key subheadings:** A list of categories with counts: adverse drug reaction (85), drug combination (15), drug comparison (33), drug interaction (4), drug therapy (286), special situation for pharmacovigilance (4), and unexpected outcome of drug treatment (0).
- Adverse drug reaction:** A detailed view of the 'adverse drug reaction' category with a search bar and a list of subtypes: suicidal ideation (21), suicide (20), suicidal behavior (18), sexual dysfunction (15), suicide attempt (15), nausea (14), dizziness (11), insomnia (11), diarrhea (10), headache (10), unspecified side effect (10), fatigue (9), gastrointestinal symptom (8), hyponatremia (8), automutilation (7), serotonin syndrome (6), side effect (6), tremor (6), xerostomia (6), constipation (5), gastrointestinal hemorrhage (5), and akathisia (4).

Orange arrows indicate the flow of information: from the 'serotonin uptake inhibitor' filter to the 'adverse drug reaction' subheading, and from the 'adverse drug reaction' subheading to the detailed 'Adverse drug reaction' panel.

# 最后的结果

Embase® Search Emtree Journals Results My tools Register Login (1) ?

## Results

#1 AND 'depression'/drug therapy/'serotonin uptake inhibitor' AND 'serotonin uptake inhibitor'/adverse drug reaction/'suicidal behavior','suicidal ideation','suicide','suicide attempt'

Search > Mapping Date Sources Fields Quick limits EBM Pub. types Languages Gender Age Animal Search tips

**Results Filters**

+ Expand - Collapse all Apply

Sources

Drugs

- serotonin uptake inhibitor Details ▶ 47
- antidepressant agent Details ▶ 32
- fluoxetine Details ▶ 23
- paroxetine Details ▶ 23
- placebo Details ▶ 20
- tricyclic antidepressant agent Details ▶ 19
- venlafaxine Details ▶ 18
- citalopram Details ▶ 17
- + More > Export

Diseases

Devices

Floating Subheadings

Age

Gender

History Save | Delete | Print view | Export | Email Combine > using  And  Or ^ Collapse

#3 #1 AND 'depression'/drug therapy/'serotonin uptake inhibitor' AND 'serotonin uptake inhibitor'/adverse drug reaction/'suicidal behavior','suicidal ideation','suicide','suicide attempt' 47

#2 #1 AND 'depression'/drug therapy/'serotonin uptake inhibitor' 286

#1 ('depression'/exp OR 'central depression' OR 'clinical depression' OR 'depression' OR 'depressive disease' OR 'depressive disorder' OR 'depressive episode' OR 'depressive illness' OR 'depressive personality disorder' OR 'depressive state' OR 'depressive symptom' OR 'depressive syndrome' OR 'mental depression' OR 'parental depression') AND ('serotonin uptake inhibitor'/exp OR 'ssri' OR 'ssri antidepressant' OR 'antidepressants, serotonin specific reuptake inhibitors' OR 'selective serotonin reuptake inhibitor' OR 'serotonin reuptake inhibitor' OR 'serotonin specific reuptake inhibitor' OR 'serotonin specific reuptake inhibitors' OR 'serotonin uptake inhibitor' OR 'serotonin uptake inhibitors') AND ('suicide'/exp OR 'completed suicide' OR 'self killing' OR 'suicidal poisoning' OR 'suicide' OR 'suicide, completed') 5,584

47 results for search #3 Set email alert Set RSS feed Search details Index miner

**Results** View | Print | Export | Email | Order | Add to Clipboard 1 — 25 >

Select number of items Selected: 0 (clear) Show all abstracts | Sort by:  Relevance  Publication Year  Entry Date

1 Latest thinking on antidepressants in children and young people  
Dubicka B., Wilkinson P.O.  
*Archives of Disease in Childhood* 2018 103:8 (720-721) Cited by: 4  
Embase MEDLINE [No abstract available] Index Terms > View Full Text  Similar records >

2 Antidepressants and the adolescent brain  
Cousins L., Goodyer I.M.  
*Journal of Psychopharmacology* 2015 29:5 (545-555) Cited by: 19  
Embase MEDLINE Abstract Index Terms > View Full Text  Similar records >

3 Assessing the overuse of medicines  
Busfield J.  
*Social Science and Medicine* 2015 131 (199-206) Cited by: 27  
Embase MEDLINE Abstract Index Terms > View Full Text  Similar records >

# 更多有意思的记录

Embase® Search Entree Journals Results

## Record Details

[← Back to Results](#) [Send](#) [Add to clipboard](#) [Full record](#)  
[Export](#)

Translated Title

### Selective serotonin reuptake inhibitors versus tricyclic antidepressants in young patients: A meta-analysis of efficacy and acceptability

Clinical Therapeutics 2014 36:7 (1087-1095.e4)

Translated Abstract

Purpose A meta-analysis comparing the efficacy and acceptability of selective serotonin reuptake inhibitors (SSRIs) versus tricyclic antidepressants (TCAs) in depressed children, adolescents, and young adults was performed. Methods A comprehensive literature search of the PubMed, Cochrane, Embase, Web of Science, and PsycINFO databases was conducted from 1970 to December 2013. Only clinical trials that randomly assigned one SSRI or TCA to patients aged 7 to 25 years who met the diagnostic criteria for unipolar depressive disorder were included. Primary efficacy was determined by the pooling of standardized mean differences (SMDs) calculated from the difference in the reduction in mean depression rating scale scores for the 2 antidepressants. Acceptability was determined by pooling the risk ratios (RRs) of dropouts for all reasons and for adverse effects as well as the suicide-risk outcome. Findings Five trials with a total of 422 patients were considered to be eligible for inclusion. SSRIs were significantly more effective than TCAs in primary efficacy (SMD = -0.52; 95% CI, -0.81 to -0.24; P = 0.0003). Patients taking SSRIs had a significantly greater response to depressive symptoms than patients taking TCAs (RR = 1.55; 95% CI, 1.04 to 2.29; P = 0.03). On an individual SSRI basis, fluoxetine had a significantly greater efficacy than TCAs (SMD = -0.82; 95% CI, -1.34 to -0.29; P = 0.003). On an individual TCA basis, only imipramine was not significantly worse than SSRIs (SMD = -0.27; 95% CI, -0.56 to 0.02; P = 0.06). Significantly more patients taking TCAs discontinued treatment than patients taking SSRIs (35.8% vs 25.1%; RR = 0.70; 95% CI, 0.52 to 0.93; P = 0.02). Implications SSRI therapy has a superior efficacy and is better tolerated compared with TCA therapy in young patients. © 2014 Elsevier HS Journals, Inc. All rights reserved.

### serotonin uptake inhibitor

Key Subheadings:

- adverse drug reaction
- suicidal behavior, suicidal ideation
- drug comparison
- tricyclic antidepressant agent
- drug therapy
- adolescent disease, childhood disease, depression

### suicidal behavior

Key Subheadings:

- side effect
- serotonin uptake inhibitor, tricyclic antidepressant agent

### suicidal ideation

Key Subheadings:

- side effect
- serotonin uptake inhibitor, tricyclic antidepressant agent



Thank you

