

## Appendix 1. Search strategy in MEDLINE, EMBASE and Web of Science.

### 1. MEDLINE

<p>Interface: Ovid MEDLINE(R) and Epub Ahead of Print, In-Process &amp; Other Non-Indexed Citations and Daily</p> <p>Date of Search: February 4, 2022</p> <p>Number of hits: 526</p> <p>Comment: In Ovid, two or more words are automatically searched as phrases; i.e. no quotation marks are needed</p>	<p>Field labels</p> <ul style="list-style-type: none"> <li>• exp/ = exploded MeSH term</li> <li>• / = non exploded MeSH term</li> <li>• .ti,ab,kf. = title, abstract and author keywords</li> <li>• adjx = within x words, regardless of order</li> <li>• * = truncation of word for alternate endings</li> </ul>	
<p>Database(s): <b>Ovid MEDLINE(R) and Epub Ahead of Print, In-Process, In-Data-Review &amp; Other Non-Indexed Citations and Daily</b> 1946 to February 04, 2022</p> <p>Search Strategy:</p>		
#	Searches	Results
1	(idiopathic adj4 (scoliosis or scolioses)).ab,kf,ti.	8238
2	exp Heredity/	4903
3	exp Twin Study/	9133
4	exp Family/	347058
5	(heredit* or heritability or twin* or sister* or brother* or sibling* or mother* or father* or paternal* or maternal* or famil*).ab,kf,ti.	1789473
6	exp Genetic Predisposition to Disease/	150891
7	genetic* predisposition*.ab,kf,ti.	14731
8	2 or 3 or 4 or 5 or 6 or 7	2056195
9	1 and 8	526

## 2. EMBASE

<p>Interface: embase.com</p> <p>Date of Search: February 4, 2022</p> <p>Number of hits: 977</p> <p>Comment: Emtree is the controlled vocabulary in Embase</p>	<p>Field labels</p> <ul style="list-style-type: none"> <li>• /exp = exploded Emtree term</li> <li>• /de = non exploded Emtree term</li> <li>• ti,ab,kw = title, abstract and author keywords</li> <li>• NEAR/x = within x words, regardless of order</li> <li>• * = truncation of word for alternate endings</li> </ul>
No.	Results
	977
<b>11</b>	
#9 AND #10	5,396,983
<b>10</b>	
#3 OR #4 OR #5 OR #6 OR #7 OR #8	11,354
<b>9</b>	
#1 OR #2	21,792
<b>8</b> 'genetic* predisposition*':ti,ab,kw	185,028
<b>7</b> 'genetic predisposition'/exp	2,258,367
<b>6</b> heredit*:ti,ab,kw OR heritability:ti,ab,kw OR twin*:ti,ab,kw OR sister*:ti,ab,kw OR brother*:ti,ab,kw OR sibling*:ti,ab,kw OR mother*:ti,ab,kw OR father*:ti,ab,kw OR paternal*:ti,ab,kw OR maternal*:ti,ab,kw OR famil*:ti,ab,kw	566,422
<b>5</b> 'family'/exp	1,457
<b>4</b> 'twin study'/exp	3,567,408
<b>3</b> 'heredity'/exp	10,425
<b>2</b> (idiopathic NEAR/4 (scoliosis OR scolioses)):ti,ab,kw	8,441
<b>1</b> 'idiopathic scoliosis'/exp	

### 3. Web of Science Core Collection

<p>Interface: Clarivate Analytics</p> <p>Date of Search: February 4, 2022</p> <p>Number of hits: 367</p>	<p>Field labels</p> <ul style="list-style-type: none"><li>• TS/Topic = title, abstract, author keywords and Keywords Plus</li><li>• NEAR/x = within x words, regardless of order</li><li>• * = truncation of word for alternate endings</li></ul> <p>Note: sometimes "quotation marks" are needed for single search terms to avoid automatic term mapping (lemmatization).</p>
<p>(idiopathic NEAR/4 (scoliosis OR scolioses)) (Topic)</p> <p>AND</p> <p>(brother* OR famil* OR father* OR heredit* OR heritability OR maternal* OR mother* OR paternal* OR sibling* OR sister* OR twin* OR "genetic* predisposition*") (Topic)</p>	