

## **Supplementary Table 1: Search strategy in Medline**

### **Database**

**Medline databases via Ovid from Wolters Kluwer**

### **Search dates and update status:**

**Initial search 26<sup>th</sup> September 2017:**

**Medline 1946 to September Week 2 2017,**

**Medline Daily Update, Medline In-Process & Other Non-Indexed Citations and Epub  
Ahead of Print September 25, 2017**

**Update search 9<sup>th</sup> August 2019:**

**Medline from January 2017 to July Week 5 2019,**

**Medline Daily Update and Medline In-Process & Other Non-Indexed Citations from  
January 2017 to August 07, 2019,**

**Medline Epub Ahead of Print from January 2017 to August 08, 2019;**

**Initial search MEDLINE databases (see below for following updates):**

**Ovid MEDLINE(R) 1946 to September Week 2 2017,**

**Ovid MEDLINE(R) Daily Update September 25, 2017**

**Search date: 2017-09-26**

#	Searches	Results	Annotations
1	haplorhini/	48391	Large animals (MeSH and textwords)
2	catarrhini/	83	
3	exp cercopithecidae/	119894	
4	hominidae/	7927	
5	gorilla gorilla/	1906	
6	pan paniscus/	491	
7	pan troglodytes/	9285	
8	exp pongo/	1271	
9	exp hylobatidae/	950	
10	exp platyrrhini/	13801	
11	exp tarsii/	68	
12	exp swine/	207411	
13	exp sheep/	116166	
14	cats/	139800	
15	dogs/	326614	
16	rabbits/	345535	
17	exp goats/	29988	
18	horses/	66412	
19	cattle/	337435	
20	ferrets/	5659	
21	guinea pigs/	145937	
22	(large animal* or large mammal* or baboon* or beagle* or bovine*	1394606	

	<p>or cat or cats or kitten*  or canine* or cattle* or  cavy or cavia or cow or  cows or cynomolgus or  dog or dogs or equine*  or feline* or goat* or  gyrencephalic or hare  or horse* or macaca*  or macaque* or  marmoset* or  monkey* or papio* or  primate* or NHP or  ovine* or pig or pigs or  piglet* or porcine* or  rabbit* or sheep* or  swine*).ti,ab,kf.</p>		
<p>23</p>	<p>(Alouattinae or  Alouatta? or Aotidae  or Aotinae or Aotus or  Atelidae or Atelinae or  Barbary Ape? or Black  Ape? or Bonobo? or  Cacajao? or calliceb*  or Callimico* or  Callithrix or</p>	<p>24297</p>	

<p><b>Callitrichinae or</b></p> <p><b>Catarrhina? or</b></p> <p><b>Cebidae or Cebinae or</b></p> <p><b>Cebus or Cebuella? or</b></p> <p><b>Celebes* ape? or</b></p> <p><b>Cercocebus or</b></p> <p><b>Cercopithec* or</b></p> <p><b>Chimpanzee? or</b></p> <p><b>Chiropote? or</b></p> <p><b>Colobinae or Colobus</b></p> <p><b>or Douroucouli or</b></p> <p><b>Erythrocebus or</b></p> <p><b>Gelada? or Gibbon? or</b></p> <p><b>Hamadrya? or</b></p> <p><b>Hapale? or Hylobat?</b></p> <p><b>or Langur? or</b></p> <p><b>Leontideus or</b></p> <p><b>Leontopithecus or</b></p> <p><b>Lophocebus or</b></p> <p><b>Mangabey? or</b></p> <p><b>Mandrillus or</b></p> <p><b>Miopithecus Talapoin?</b></p> <p><b>or Pan Paniscus or Pan</b></p> <p><b>Troglodytes or</b></p> <p><b>Pongidae or Pongo? or</b></p>		
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	<b>Presbyti? or Pygathri* or Platyrrhin* or Tamarin? or Saguinus or Saimir* or Siamang? or Pitheciidae or Pitheciin* or Pithecin* or Pithecia? or Tarsier? or Tarsii* or Tarsius or Theropithec*).ti,ab,kf.</b>		
<b>24</b>	<b>or/1-23</b>	<b>1942394</b>	
<b>25</b>	<b>(eng or ger).la.</b>	<b>21636641</b>	<b>Language English or German</b>
<b>26</b>	<b>24 and 25</b>	<b>1749704</b>	<b>Large animals AND (English OR German)</b>
<b>27</b>	<b>Cerebrovascular Disorders/</b>	<b>46533</b>	<b>Disease Ischemic Stroke: MeSH,</b>
<b>28</b>	<b>exp Brain Ischemia/</b>	<b>99036</b>	<b>textwords</b>
<b>29</b>	<b>exp Carotid Artery Diseases/</b>	<b>45118</b>	
<b>30</b>	<b>Infarction, Anterior Cerebral Artery/</b>	<b>231</b>	
<b>31</b>	<b>Infarction, Middle</b>	<b>7408</b>	

	<b>Cerebral Artery/</b>		
<b>32</b>	<b>Infarction, Posterior Cerebral Artery/</b>	<b>259</b>	
<b>33</b>	<b>Moyamoya Disease/</b>	<b>2823</b>	
<b>34</b>	<b>Intracranial Arteriosclerosis/</b>	<b>5977</b>	
<b>35</b>	<b>exp "Intracranial Embolism and Thrombosis"/</b>	<b>20787</b>	
<b>36</b>	<b>exp Stroke/</b>	<b>113866</b>	
<b>37</b>	<b>Vasospasm, Intracranial/</b>	<b>2868</b>	
<b>38</b>	<b>Cerebral Arterial Diseases/</b>	<b>2645</b>	
<b>39</b>	<b>((Brain adj3 infarct*) or (brain adj3 isch?emi*) or (Cereb* adj3 infarct*) or (cereb* adj3 isch?emi*) or isch?emic neuronal injur* or isch?emic stroke? or lacunar stroke* or lacunar</b>	<b>90271</b>	

	<b>isch?emi* or lacunar infarct* or thromb?embolic stroke* or thromb? embolic stroke*).ti,ab,kf.</b>		
<b>40</b>	<b>or/27-39</b>	<b>267552</b>	
<b>41</b>	<b>26 and 40</b>	<b>8787</b>	<b>Large animals engl, german AND disease</b>
<b>42</b>	<b>(comment or editorial or review).pt.</b>	<b>3195986</b>	<b>Exclusion of publication types</b>
<b>43</b>	<b>41 not 42</b>	<b>8122</b>	
<b>44</b>	<b>((systematic adj3 review) or (systematic adj3 overview) or meta-analy* or metaanaly*).ti.</b>	<b>101821</b>	<b>Syst. Reviews OR Meta-Analyses</b>
<b>45</b>	<b>meta-analysis.pt.</b>	<b>87097</b>	
<b>46</b>	<b>44 or 45</b>	<b>130434</b>	
<b>47</b>	<b>41 and 46</b>	<b>26</b>	<b>Large animals engl, german AND disease AND Syst.Rev./Meta-</b>

			<b>analyses</b>
<b>48</b>	<b>43 or 47</b>	<b>8138</b>	<b>Large animals, engl, german AND disease (specific publication types)</b>
<b>49</b>	<b>limit 48 to yr="1990 - Current"</b>	<b>5261</b>	<b>from 1990 to current</b>
<b>50</b>	<b>remove duplicates from 49</b>	<b>5032</b>	<b>Final result: indexed citations</b>

**Legend:**

**/ = MeSH term**

**Exp = explode Mesh term**

**\* = truncation**

**? = 0 or 1 character**

**.ti,ab,kf. = title, abstract, keyword heading word**

**.ti. = title**

**.la. = Language**

**.pt. = publication type**

**.yr. = publication year**

**adjn = terms within n words in any order**

**" = same as**

Update Search MEDLINE databases:

Ovid MEDLINE(R) In-Process & Other Non-Indexed Citations September 25, 2017,

Ovid MEDLINE(R) Epub Ahead of Print September 25, 2017

Search date 2017-09-26

#	Searches	Results	Annotations
1	(large animal* or large mammal* or baboon* or beagle* or bovine* or cat or cats or kitten* or canine* or cattle* or cavy or cavia or cow or cows or cynomolgus or dog or dogs or equine* or feline* or goat* or gyrencephalic or hare or horse* or macaca* or macaque* or marmoset* or monkey* or papio* or primate* or NHP or ovine* or pig or pigs or piglet* or porcine* or rabbit* or sheep*	78677	Large animals textwords

	<b>or swine*).ti,ab,kf.</b>		
<b>2</b>	<b>(Alouattinae or  Alouatta? or Aotidae  or Aotinae or Aotus or  Atelidae or Atelinae  or Barbary Ape? or  Black Ape? or  Bonobo? or Cacajao?  or calliceb* or  Callimico* or  Callithrix or  Callitrichinae or  Catarrhina? or  Cebidae or Cebinae  or Cebus or Cebuella?  or Celebes* ape? or  Cercocebus or  Cercopithec* or  Chimpanzee? or  Chiropote? or  Colobinae or Colobus  or Douroucouli or  Erythrocebus or  Gelada? or Gibbon?  or Hamadrya? or</b>	<b>1654</b>	

	<p><b>Hapale? or Hylobat?</b>  <b>or Langur? or</b>  <b>Leontideus or</b>  <b>Leontopithecus or</b>  <b>Lophocebus or</b>  <b>Mangabey? or</b>  <b>Mandrillus or</b>  <b>Miopithecus</b>  <b>Talapoin? or Pan</b>  <b>Paniscus or Pan</b>  <b>Troglodytes or</b>  <b>Pongidae or Pongo?</b>  <b>or Presbyti? or</b>  <b>Pygathri* or</b>  <b>Platyrrhin* or</b>  <b>Tamarin? or Saguinus</b>  <b>or Saimir* or</b>  <b>Siamang? or</b>  <b>Pitheciidae or</b>  <b>Pitheciin* or</b>  <b>Pithecin* or Pithecia?</b>  <b>or Tarsier? or Tarsii*</b>  <b>or Tarsius or</b>  <b>Theropithec*).ti,ab,kf.</b></p>		
3	1 or 2	79352	

<b>4</b>	<b>(eng or ger).la.</b>	<b>3302652</b>	<b>Language english or german</b>
<b>5</b>	<b>3 and 4</b>	<b>78703</b>	<b>Large animals AND english, german</b>
<b>6</b>	<b>((Brain adj3 infarct*) or (brain adj3 isch?emi*) or (Cereb* adj3 infarct*) or (cereb* adj3 isch?emi*) or isch?emic neuronal injur* or isch?emic stroke? or lacunar stroke* or lacunar isch?emi* or lacunar infarct* or thromb?embolic stroke* or thromb? embolic stroke*).ti,ab,kf.</b>	<b>11456</b>	<b>Disease: textwords</b>
<b>7</b>	<b>5 and 6</b>	<b>204</b>	<b>Large animals AND disease AND English/german</b>
<b>8</b>	<b>(comment or editorial or review).pt.</b>	<b>189840</b>	<b>Exclusion of publication types</b>

<b>9</b>	<b>7 not 8</b>	<b>196</b>	
<b>10</b>	<b>((systematic adj3 review) or (systematic adj3 overview) or meta-analy* or metaanaly*).ti.</b>	<b>28706</b>	<b>Syst. Reviews OR Meta-Analyses</b>
<b>11</b>	<b>meta-analysis.pt.</b>	<b>199</b>	
<b>12</b>	<b>10 or 11</b>	<b>28723</b>	
<b>13</b>	<b>7 and 12</b>	<b>2</b>	<b>Large animals, engl, german AND disease AND syst.rev./Meta-analysen</b>
<b>14</b>	<b>9 or 13</b>	<b>196</b>	<b>Large animals, engl, german AND disease (specific publication types)</b>
<b>15</b>	<b>limit 14 to yr="1990 - Current"</b>	<b>192</b>	<b>From 1990 to current final result of non-indexed citations</b>

**Legend:**

**\* = Truncation**

**? = 0 or 1 character**

**.ti,ab,kf. = title, abstract, keyword heading word**

**.ti. = title**

**.la. = Language**

**.pt. = publication type**

**.yr. = publication year**

**adj*n* = terms within n words in any order**

**“ = same as**

**Update Search MEDLINE databases:**

**Ovid MEDLINE(R) 1946 to July Week 5 2019,**

**Ovid MEDLINE(R) Daily Update August 07, 2019**

**Search date: 2019-08-09**

**Update-search from “2017 to Current”, see search no. #49)**

<b>#</b>	<b>Searches</b>	<b>Results</b>
<b>1</b>	<b>haplorhini/</b>	<b>46457</b>
<b>2</b>	<b>catarrhini/</b>	<b>89</b>
<b>3</b>	<b>exp cercopithecidae/</b>	<b>120301</b>
<b>4</b>	<b>hominidae/</b>	<b>7994</b>
<b>5</b>	<b>gorilla gorilla/</b>	<b>1879</b>
<b>6</b>	<b>pan paniscus/</b>	<b>524</b>
<b>7</b>	<b>pan troglodytes/</b>	<b>9253</b>
<b>8</b>	<b>exp pongo/</b>	<b>1245</b>
<b>9</b>	<b>exp hylobatidae/</b>	<b>936</b>
<b>10</b>	<b>exp platyrrhini/</b>	<b>13635</b>
<b>11</b>	<b>exp tarsii/</b>	<b>75</b>
<b>12</b>	<b>exp swine/</b>	<b>213026</b>
<b>13</b>	<b>exp sheep/</b>	<b>116366</b>
<b>14</b>	<b>cats/</b>	<b>133779</b>
<b>15</b>	<b>dogs/</b>	<b>321733</b>
<b>16</b>	<b>rabbits/</b>	<b>336349</b>
<b>17</b>	<b>exp goats/</b>	<b>30529</b>

<b>18</b>	<b>horses/</b>	<b>67515</b>
<b>19</b>	<b>cattle/</b>	<b>340856</b>
<b>20</b>	<b>ferrets/</b>	<b>5603</b>
<b>21</b>	<b>guinea pigs/</b>	<b>138975</b>
<b>22</b>	<b>(large animal* or large mammal* or baboon* or beagle* or bovine* or cat or cats or kitten* or canine* or cattle* or cavy or cavia or cow or cows or cynomolgus or dog or dogs or equine* or feline* or goat* or gyrencephalic or hare or horse* or macaca* or macaque* or marmoset* or monkey* or papio* or primate* or NHP or ovine* or pig or pigs or piglet* or porcine* or rabbit* or sheep* or swine*).ti,ab,kf.</b>	<b>1394059</b>
<b>23</b>	<b>(Alouattinae or</b>	<b>24339</b>

	<p><b>Alouatta? or Aotidae</b> <b>or Aotinae or Aotus or</b> <b>Atelidae or Atelinae</b> <b>or Barbary Ape? or</b> <b>Black Ape? or</b> <b>Bonobo? or Cacajao?</b> <b>or calliceb* or</b> <b>Callimico* or</b> <b>Callithrix or</b> <b>Callitrichinae or</b> <b>Catarrhina? or</b> <b>Cebidae or Cebinae</b> <b>or Cebus or Cebuella?</b> <b>or Celebes* ape? or</b> <b>Cercocebus or</b> <b>Cercopithec* or</b> <b>Chimpanzee? or</b> <b>Chiropote? or</b> <b>Colobinae or Colobus</b> <b>or Douroucouli or</b> <b>Erythrocebus or</b> <b>Gelada? or Gibbon?</b> <b>or Hamadrya? or</b> <b>Hapale? or Hylobat?</b> <b>or Langur? or</b></p>	
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	<b>Leontideus or</b> <b>Leontopithecus or</b> <b>Lophocebus or</b> <b>Mangabey? or</b> <b>Mandrillus or</b> <b>Miopithecus</b> <b>Talapoin? or Pan</b> <b>Paniscus or Pan</b> <b>Troglodytes or</b> <b>Pongidae or Pongo?</b> <b>or Presbyti? or</b> <b>Pygathri* or</b> <b>Platyrrhin* or</b> <b>Tamarin? or Saguinus</b> <b>or Saimir* or</b> <b>Siamang? or</b> <b>Pitheciidae or</b> <b>Pitheciin* or</b> <b>Pithecin* or Pithecia?</b> <b>or Tarsier? or Tarsii*</b> <b>or Tarsius or</b> <b>Theropithec*).ti,ab,kf.</b>	
<b>24</b>	<b>or/1-23</b>	<b>1934189</b>
<b>25</b>	<b>(eng or ger).la.</b>	<b>22255595</b>
<b>26</b>	<b>24 and 25</b>	<b>1743154</b>

27	<b>Cerebrovascular Disorders/</b>	45849
28	<b>exp Brain Ischemia/</b>	102828
29	<b>exp Carotid Artery Diseases/</b>	45950
30	<b>Infarction, Anterior Cerebral Artery/</b>	244
31	<b>Infarction, Middle Cerebral Artery/</b>	8165
32	<b>Infarction, Posterior Cerebral Artery/</b>	267
33	<b>Moyamoya Disease/</b>	3025
34	<b>Intracranial Arteriosclerosis/</b>	5939
35	<b>exp "Intracranial Embolism and Thrombosis"/</b>	20707
36	<b>exp Stroke/</b>	124146
37	<b>Vasospasm, Intracranial/</b>	3050
38	<b>Cerebral Arterial Diseases/</b>	2590
39	<b>((Brain adj3 infarct*) or (brain adj3 isch?emi*) or (Cereb*</b>	96592

	<b>adj3 infarct*) or  (cereb* adj3  isch?emi*) or  isch?emic neuronal  injur* or isch?emic  stroke? or lacunar  stroke* or lacunar  isch?emi* or lacunar  infarct* or  thromb?embolic  stroke* or thromb?  embolic  stroke*).ti,ab,kf.</b>	
<b>40</b>	<b>or/27-39</b>	<b>279133</b>
<b>41</b>	<b>26 and 40</b>	<b>8688</b>
<b>42</b>	<b>(comment or editorial  or review).pt.</b>	<b>3380708</b>
<b>43</b>	<b>41 not 42</b>	<b>8020</b>
<b>44</b>	<b>((systematic adj3  review) or (systematic  adj3 overview) or  meta-analy* or  metaanaly*).ti.</b>	<b>130066</b>
<b>45</b>	<b>meta-analysis.pt.</b>	<b>103549</b>
<b>46</b>	<b>44 or 45</b>	<b>160432</b>

<b>47</b>	<b>41 and 46</b>	<b>28</b>
<b>48</b>	<b>43 or 47</b>	<b>8038</b>
<b>49</b>	<b>limit 48 to yr="2017- Current"</b>	<b>328</b>
<b>50</b>	<b>remove duplicates from 49</b>	<b>328</b>

**Ovid MEDLINE(R) In-Process & Other Non-Indexed Citations 1946 to August 07, 2019,**

**Ovid MEDLINE(R) Epub Ahead of Print August 08, 2019**

**Search date 2019-08-09**

Update-search from “2017 to Current”, see search no. #15)

#	Searches	Results
1	<p>(large animal* or large mammal* or baboon* or beagle* or bovine* or cat or cats or kitten* or canine* or cattle* or cavy or cavia or cow or cows or cynomolgus or dog or dogs or equine* or feline* or goat* or gyrencephalic or hare or horse* or macaca* or macaque* or marmoset* or monkey* or papio* or primate* or NHP or ovine* or pig or pigs or piglet* or porcine* or rabbit* or sheep* or swine*).ti,ab,kf.</p>	86417
2	<p>(Alouattinae or Alouatta? or Aotidae or Aotinae or Aotus or Atelidae or Atelinae or Barbary Ape? or Black Ape? or Bonobo? or Cacajao? or calliceb* or Callimico* or Callithrix or</p>	1858

	<p><b>Callitrichinae or</b></p> <p><b>Catarrhina? or Cebidae or</b></p> <p><b>Cebinae or Cebus or</b></p> <p><b>Cebuella? or Celebes* ape?</b></p> <p><b>or Cercocebus or</b></p> <p><b>Cercopithec* or</b></p> <p><b>Chimpanzee? or</b></p> <p><b>Chiropote? or Colobinae or</b></p> <p><b>Colobus or Douroucouli or</b></p> <p><b>Erythrocebus or Gelada?</b></p> <p><b>or Gibbon? or Hamadrya?</b></p> <p><b>or Hapale? or Hylobat? or</b></p> <p><b>Langur? or Leontideus or</b></p> <p><b>Leontopithecus or</b></p> <p><b>Lophocebus or Mangabey?</b></p> <p><b>or Mandrillus or</b></p> <p><b>Miopithecus Talapoin? or</b></p> <p><b>Pan Paniscus or Pan</b></p> <p><b>Troglodytes or Pongidae or</b></p> <p><b>Pongo? or Presbyti? or</b></p> <p><b>Pygathri* or Platyrrhin* or</b></p> <p><b>Tamarin? or Saguinus or</b></p> <p><b>Saimir* or Siamang? or</b></p> <p><b>Pitheciidae or Pitheciin* or</b></p> <p><b>Pithecin* or Pithecia? or</b></p>	
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	<b>Tarsier? or Tarsii* or Tarsius or Theropithec*).ti,ab,kf.</b>	
<b>3</b>	<b>1 or 2</b>	<b>87169</b>
<b>4</b>	<b>(eng or ger).la.</b>	<b>3912948</b>
<b>5</b>	<b>3 and 4</b>	<b>86620</b>
<b>6</b>	<b>((Brain adj3 infarct*) or (brain adj3 isch?emi*) or (Cereb* adj3 infarct*) or (cereb* adj3 isch?emi*) or isch?emic neuronal injur* or isch?emic stroke? or lacunar stroke* or lacunar isch?emi* or lacunar infarct* or thromb?embolic stroke* or thromb? embolic stroke*).ti,ab,kf.</b>	<b>14156</b>
<b>7</b>	<b>5 and 6</b>	<b>231</b>
<b>8</b>	<b>(comment or editorial or review).pt.</b>	<b>272668</b>
<b>9</b>	<b>7 not 8</b>	<b>216</b>
<b>10</b>	<b>((systematic adj3 review) or (systematic adj3 overview) or meta-analy* or metaanaly*).ti.</b>	<b>36274</b>

<b>11</b>	<b>meta-analysis.pt.</b>	<b>40</b>
<b>12</b>	<b>10 or 11</b>	<b>36284</b>
<b>13</b>	<b>7 and 12</b>	<b>3</b>
<b>14</b>	<b>9 or 13</b>	<b>217</b>
<b>15</b>	<b>limit 14 to yr="2017- Current"</b>	<b>113</b>

**Supplementary Table 2: Search strategy in Web of Science Database**

Science Citation Index Expanded via Web of Science from Clarivate Analytics.

**Search dates and Update status:**

**Initial search 26<sup>th</sup> September 2017:**

Science Citation Index via Web of Science from Clarivate Analytics (time span: 1990 – 25<sup>th</sup> Sept. 2017).

**Update search 9<sup>th</sup> August 2019:** from January 2017 up to the update status at the date of search:

Science Citation Index Expanded (time span: 2017 to 8<sup>th</sup> August 2019).

**Initial search:**

**Science Citation Index Expanded via Web of Science** from Clarivate Analytics (time span: 1990 – 25<sup>th</sup> Sept. 2017).

Set	Result	
# 12	4237	#11 OR #10 Indexes=SCI-EXPANDED Timespan=1990-2017
# 11	4016	#8 OR #7 <b>Refined by: RESEARCH AREAS:</b> ( NEUROSCIENCES NEUROLOGY OR SURGERY OR PHARMACOLOGY PHARMACY OR RADIOLOGY NUCLEAR MEDICINE MEDICAL IMAGING OR MATERIALS SCIENCE OR PHYSIOLOGY OR RESEARCH EXPERIMENTAL MEDICINE OR VETERINARY SCIENCES OR INSTRUMENTS INSTRUMENTATION OR PATHOLOGY OR SCIENCE TECHNOLOGY OTHER TOPICS OR EMERGENCY MEDICINE OR ENGINEERING OR LIFE SCIENCES BIOMEDICINE OTHER TOPICS OR BIOTECHNOLOGY

		APPLIED MICROBIOLOGY ) Indexes=SCI-EXPANDED Timespan=1990-2017
# 10	4105	#8 OR #7 <b>Refined by: WEB OF SCIENCE</b> <b>CATEGORIES:</b> ( NEUROSCIENCES OR BIOTECHNOLOGY APPLIED MICROBIOLOGY OR CLINICAL NEUROLOGY OR SURGERY OR PHARMACOLOGY PHARMACY OR BIOCHEMISTRY MOLECULAR BIOLOGY OR RADIOLOGY NUCLEAR MEDICINE MEDICAL IMAGING OR MATERIALS SCIENCE BIOMATERIALS OR CRITICAL CARE MEDICINE OR PHYSIOLOGY OR MEDICINE RESEARCH EXPERIMENTAL OR NEUROIMAGING OR VETERINARY SCIENCES OR PATHOLOGY OR EMERGENCY MEDICINE OR ENGINEERING BIOMEDICAL OR BIOCHEMICAL RESEARCH METHODS ) Indexes=SCI-EXPANDED Timespan=1990-2017
# 9	5042	#8 OR #7 Indexes=SCI-EXPANDED Timespan=1990-2017
# 8	11	((#6 and ti=(systematic or metaanaly* or metanaly* or "meta-analy*")) AND <b>DOCUMENT TYPES:</b> (Review) Indexes=SCI-EXPANDED Timespan=1990-2017
# 7	5031	(#5) AND LANGUAGE: (English OR German) <b>Refined by:</b> [excluding]

		<b>DOCUMENT TYPES:</b> ( DISCUSSION OR REVIEW OR EDITORIAL MATERIAL OR REPRINT OR NOTE OR NEWS ITEM ) Indexes=SCI-EXPANDED Timespan=1990-2017
# 6	5534	(#5) <b>AND LANGUAGE:</b> (English OR German) Indexes=SCI-EXPANDED Timespan=1990-2017
# 5	5601	#4 AND #3 Indexes=SCI-EXPANDED Timespan=1990-2017
# 4	124271	ts=((Brain near/3 infarct*) or (brain near/3 isch\$Semi*) or (Cereb* near/3 infarct*) or (cereb* near/3 isch\$Semi*) or “isch\$Semic neuronal injur*” or “isch\$Semic stroke\$” or “lacunar stroke\$” or “lacunar isch\$Semi*” or “lacunar infarct*” or “thromb\$embolic stroke\$” or “thromb\$ embolic stroke\$”) Indexes=SCI-EXPANDED Timespan=1990-2017
# 3	1388509	#2 OR #1 Indexes=SCI-EXPANDED Timespan=1990-2017
# 2	34945	ts=(Alouattinae or Alouatta\$ or Aotidae or Aotinae or Aotus or Atelidae or Atelinae or “Barbary Ape*” or “Black Ape*” or Bonobo\$ or Cacajao\$ or calliceb* or Callimico* or Callithrix or Callitrichinae or Catarrhina\$ or Cebidae or Cebinae or Cebus or Cebuella\$ or “Celebes* ape*” or Cercocebus or Cercopithec* or Chimpanzee\$ or Chiropote\$ or Colobinae or Colobus or Douroucouli or Erythrocebus or Gelada\$ or Gibbon\$ or Hamadrya\$ or Hapale\$ or Hylobat\$ or Langur\$ or Leontideus or

		Leontopithecus or Lophocebus or Mangabey\$ or Mandrillus or “Miopithecus Talapoin*” or “Pan Paniscus” or “Pan Troglodytes” or Pongidae or Pongo\$ or Presbyti\$ or Pygathri* or Platyrrhin* or Tamarin\$ or Saguinus or Saimir* or Siamang\$ or Pitheciidae or Pitheciin* or Pithecin* or Pithecia\$ or Tarsier\$ or Tarsii* or Tarsius or Theropithec*) Indexes=SCI-EXPANDED Timespan=1990-2017
# 1	1376019	ts=(“large animal*” or “large mammal*” or baboon* or beagle* or bovine* or cat or cats or kitten* or canine* or cattle* or cavy or cavia or cow or cows or cynomolgus or dog or dogs or equine* or feline* or goat* or gyrencephalic or hare or horse* or macaca* or macaque* or marmoset* or monkey* or papio* or primate* or NHP or ovine* or pig or pigs or piglet* or porcine* or rabbit* or sheep* or swine*) Indexes=SCI-EXPANDED Timespan=1990-2017

Legend:

TS=Topic: search in: Title, Abstract, Author Keywords, Keywords Plus®

near/3 = terms within 3 words in any order

\* = Truncation

\$ = Wildcard: 1 or 0 character

**Update search: Science Citation Index Expanded** (time span: 2017 to 8<sup>th</sup> August 2019).

# 12	380	#11 OR #10 Indexes=SCI-EXPANDED Timespan=2017-2019
# 11	363	#8 OR #7 <b>Refined by: RESEARCH</b>

		<p><b>AREAS:</b> ( PHARMACOLOGY PHARMACY OR PHYSIOLOGY OR INSTRUMENTS INSTRUMENTATION OR RADIOLOGY NUCLEAR MEDICINE MEDICAL IMAGING OR BIOTECHNOLOGY APPLIED MICROBIOLOGY OR LIFE SCIENCES BIOMEDICINE OTHER TOPICS OR RESEARCH EXPERIMENTAL MEDICINE OR MATERIALS SCIENCE OR NEUROSCIENCES NEUROLOGY OR SCIENCE TECHNOLOGY OTHER TOPICS OR EMERGENCY MEDICINE OR SURGERY OR ENGINEERING OR VETERINARY SCIENCES OR PATHOLOGY ) Indexes=SCI-EXPANDED Timespan=2017-2019</p>
# 10	347	<p>#8 OR #7 <b>Refined by: WEB OF SCIENCE</b> <b>CATEGORIES:</b> ( ENGINEERING BIOMEDICAL OR BIOCHEMICAL RESEARCH METHODS OR PATHOLOGY OR BIOCHEMISTRY MOLECULAR BIOLOGY OR PHARMACOLOGY PHARMACY OR BIOTECHNOLOGY APPLIED MICROBIOLOGY OR PHYSIOLOGY OR RADIOLOGY NUCLEAR MEDICINE MEDICAL IMAGING OR MATERIALS SCIENCE BIOMATERIALS OR</p>

		CLINICAL NEUROLOGY OR MEDICINE RESEARCH EXPERIMENTAL OR SURGERY OR CRITICAL CARE MEDICINE OR NEUROIMAGING OR VETERINARY SCIENCES OR EMERGENCY MEDICINE OR NEUROSCIENCES ) Indexes=SCI-EXPANDED Timespan=2017-2019
# 9	432	#8 OR #7 Indexes=SCI-EXPANDED Timespan=2017-2019
# 8	6	((#6 and ti=(systematic or metaanaly* or metanaly* or "meta-analy*")))) AND <b>DOCUMENT TYPES:</b> (Review) Indexes=SCI-EXPANDED Timespan=2017-2019
# 7	426	(#5) AND LANGUAGE: (English OR German) <b>Refined by:</b> [excluding] <b>DOCUMENT TYPES:</b> ( EDITORIAL MATERIAL OR REVIEW ) Indexes=SCI-EXPANDED Timespan=2017-2019
# 6	478	(#5) AND LANGUAGE: (English OR German) Indexes=SCI-EXPANDED Timespan=2017-2019
# 5	479	#4 AND #3 Indexes=SCI-EXPANDED Timespan=2017-2019
# 4	23985	ts=((Brain near/3 infarct*) or (brain near/3 isch*emi*) or (Cereb* near/3 infarct*) or (cereb* near/3 isch*emi*) or "isch*emic neuronal injur*" or "isch*emic stroke*" or "lacunar stroke*" or "lacunar isch*emi*" or "lacunar infarct*" or "thromb*embolic stroke*" or "thromb* embolic stroke*") Indexes=SCI-EXPANDED

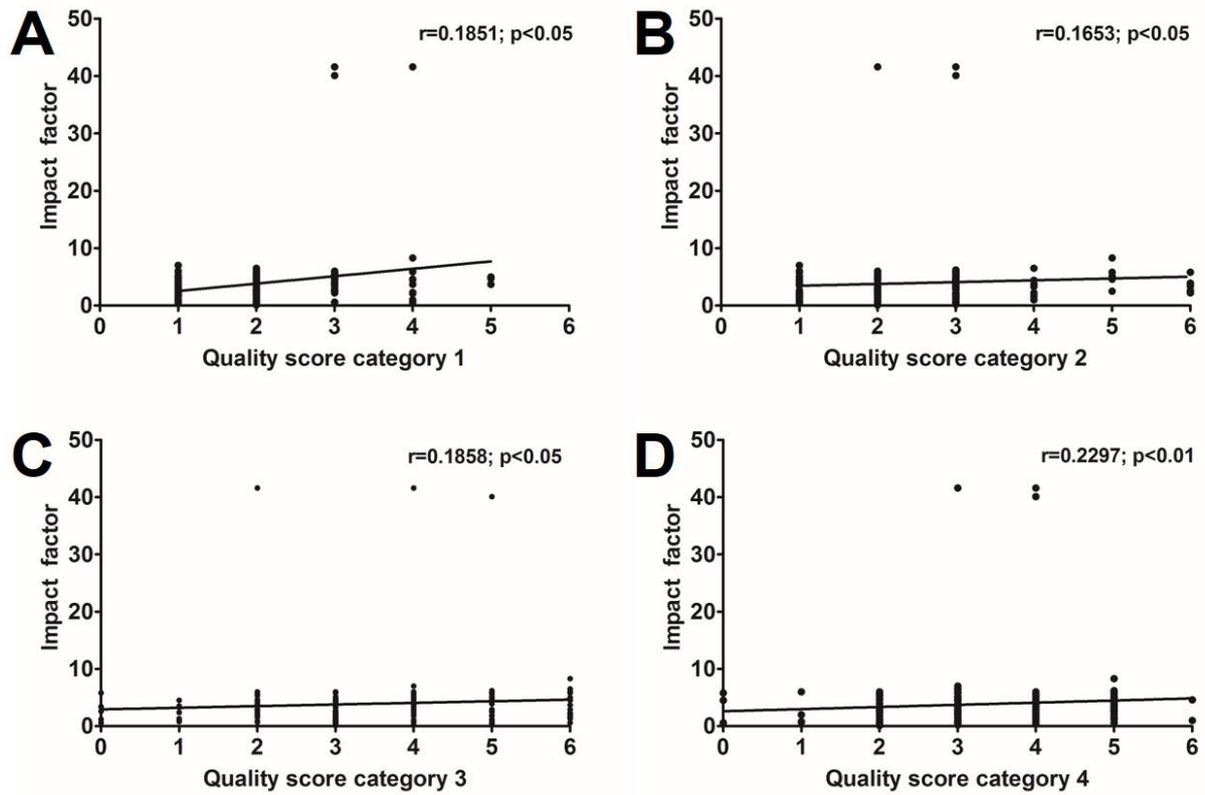
		Timespan=2017-2019
# 3	152657	#2 OR #1 Indexes=SCI-EXPANDED Timespan=2017-2019
# 2	4014	ts=(Alouattinae or Alouatta\$ or Aotidae or Aotinae or Aotus or Atelidae or Atelinae or “Barbary Ape*” or “Black Ape*” or Bonobo\$ or Cacajao\$ or calliceb* or Callimico* or Callithrix or Callitrichinae or Catarrhina\$ or Cebidae or Cebinae or Cebus or Cebuella\$ or “Celebes* ape*” or Cercocebus or Cercopithec* or Chimpanzee\$ or Chiropote\$ or Colobinae or Colobus or Douroucouli or Erythrocebus or Gelada\$ or Gibbon\$ or Hamadrya\$ or Hapale\$ or Hylobat\$ or Langur\$ or Leontideus or Leontopithecus or Lophocebus or Mangabey\$ or Mandrillus or “Miopithecus Talapoin*” or “Pan Paniscus” or “Pan Troglodytes” or Pongidae or Pongo\$ or Presbyti\$ or Pygathri* or Platyrrhin* or Tamarin\$ or Saguinus or Saimir* or Siamang\$ or Pitheciidae or Pitheciin* or Pithecin* or Pithecia\$ or Tarsier\$ or Tarsii* or Tarsius or Theropithec*) Indexes=SCI-EXPANDED Timespan=2017-2019
# 1	151121	ts=(“large animal*” or “large mammal*” or baboon* or beagle* or bovine* or cat or cats or kitten* or canine* or cattle* or cavy or cavia or cow or cows or cynomolgus or dog or dogs or equine* or feline* or goat* or gyrencephalic or hare or horse* or macaca* or macaque* or marmoset* or monkey* or papio* or

		primate* or NHP or ovine* or pig or pigs or piglet* or porcine* or rabbit* or sheep* or swine*) Indexes=SCI-EXPANDED Timespan=2017-2019
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**Supplementary Table 3. Type and frequency of inappropriate analysis methods.**

<b>Method</b>	<b>Frequency (%)</b>	<b>Reasons for Inappropriateness</b>
Imaging technologies <sup>#</sup>	n=4 (1.9%)	No quantitative or qualitative data presented and/or images only shown partially
Functional outcome	n=8 (3.8%)	Evaluated without confirmation of stroke induction
Clinical chemistry	n=4 (1.9%)	Presented parameters do not confirm successful therapeutic intervention and/or do not support the conclusions
Cerebral blood flow	n=1 (0.5%)	no relation to primary study endpoint
Histology	n=5 (2.4%)	no relation to primary study endpoint

<sup>#</sup> MRT (n=2), angiography (n=2)



**Supplementary Figure 1. Association between impact factor and quality score within individual categories.**

(A) to (D) Scatterplots show correlation between individual quality category scores and IF. There was a significant correlation between quality scores in each category 1-3 ( $p<0.05$ ) and 4 ( $p<0.01$ ) and IF. Number of included studies was 172, no IF in the year of publication could be retrieved for 36 studies.

### Supplementary reference list

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