

# LDA2Net: Digging under the surface of COVID-19 topics in literature

## Topic 27 companion sheet

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This file contains the following supplementary information for Topic 27 of the manuscript “*LDA2Net*: Digging under the surface of COVID-19 topics in scientific literature”:

- Human label and automatic n-gram label proposals (Table 1)
- Summary measures (Table 2)
- Network of top 25 bigrams (Figure 1)
- Wordclouds of top 25 words by node relevance measure (Figure 2)
- Wordclouds of top 25 bigrams by edge relevance measure (Figure 3)
- Filtered (0.99 percentile) topic network (Figure 4)

Table 1: Human and automatic label proposals. Automatic label candidate for largest word community of the topic. In parenthesis: absolute frequency of the walk out of a sample of size 1000.

Human label	2-gram label	3-gram label	4-gram label
Studies, evidences	evidence->suggest (10.2%)	evidence->suggest->studies (6.7%)	evidence->suggests->studies->needed (1.7%)

Here follows the set of topic-specific measures that have been used to classify the topic and to analyse its structural properties (see manuscript for details):

Table 2: Summary measures

	JSD	Mean propensity	Variance propensity	Modularity	Barrat Clustering Coeff.
value	0.717214	0.008011	0.000116	0.000000	0.540050
rank	86	49	9	17	24

Based on the aforementioned measures, Topic 27 has been classified as a CROSS-CUTTING topic.

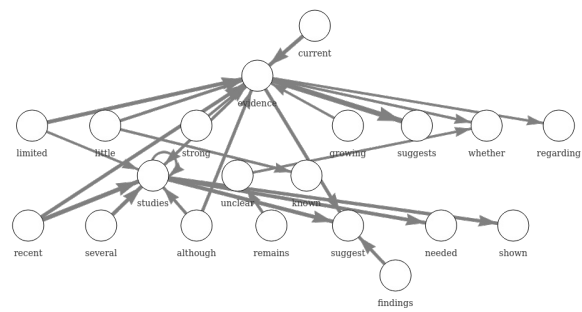


Figure 1: Network of top 25 bigrams (i.e., edges) by weight.

A word cloud of terms related to evidence. The most prominent words are 'evidence' and 'studies'. Other visible words include 'findings', 'unclear', 'although', 'recent', 'known', 'whether', 'found', 'needed', 'remain', 'clear', 'regarding', 'limited', 'suggest', 'several', 'shown', 'little', 'current', 'despite', 'remains', 'growing', 'strong', and 'suggestions'.

A word cloud of terms related to evidence and studies. The words are arranged in a circular pattern, with 'evidence' and 'studies' being the largest and most central. Other prominent words include 'suggests', 'suggest', 'current', 'found', 'supports', 'indicate', 'findings', 'recent', 'indicates', 'unclear', 'shown', 'several', 'whether', 'regarding', 'although', 'suggesting', 'unknown', 'needed', 'limited', 'known', 'remains', 'demonstrated', 'possible', and 'suggest'. The words are in various shades of gray and are oriented in different directions, creating a dynamic and abstract visual representation of the concepts.

experimental  
known currently  
strong  
several unknown  
although found  
recent whether  
evidence suggest  
studies limited remain  
findings clear  
despite  
growing  
remains  
suggests unclear  
additional  
little  
current

A word cloud of terms related to evidence. The word "evidence" is the largest and most central. Other prominent words include "studies", "suggests", "possible", "demonstrated", "unknown", "supports", "recent", "shown", "unclear", "large", "found", "suggest", "date", "remain", "whether", "needed", "limited", "exists", "show", "suggesting", "regarding", "although", "indicates", and "remains". The words are arranged in a circular pattern around the central word "evidence".

A word cloud of terms related to evidence-based practice. The most prominent words are 'evidence', 'studies', 'shows', 'suggest', 'remains', 'known', 'likely', 'found', 'possible', 'although', 'despite', 'regarding', 'benefit', 'current', 'needed', 'several', 'findings', 'effects', 'remain', 'unclear', 'base', 'recent', 'whether', 'shown', and 'remains'. The words are arranged in a circular pattern, with 'evidence' and 'studies' being the largest and most central.

3

