

Measuring the Impact of Misinformation, Disinformation, and Propaganda in Latin America

Appendix A. Bulk Download of Tweets

This appendix outlines the process of obtaining tweets from the 131 *queries* presented in **Table 1** (in blue) from the Twitter API, and storing them in the Relational Database (RDB) for further analysis. Given the time constraints of the project, the tweet download process only collected the most recent information of the remaining 21 *queries* instead of the complete historical file.

Table 1. Queries built for the tweet download related to COVID-19 in Mexico.

No.	QueryID	Query
1	29	vacuna (covid OR SARS-CoV-2 OR coronavirus) México
2	31	Vacuna covid México
3	32	Coronavirus vacuna México
4	33	Coronavirus corrupción México
5	36	Covid cura México
6	37	Covid 5G México
7	38	Pruebas covid México
8	39	Covid muertes México
9	41	Covid viajeros México
10	42	Covid fake news México
11	43	Covid México
12	44	covid semáforo
13	45	covid lópez gatell
14	47	covid mañanera
15	48	covid pfizer méxico
16	49	AMLO covid
17	50	covid vacuna rusa amlo

18	51	AMLO coronavirus
19	52	#sputnikv lilly tellez
20	53	sputnik LillyTellez
21	54	sputnik cofepris
22	55	sputnik amlo
23	56	sputnik México
24	57	vacuna rusa amlo
25	58	sputnik gatell
26	59	Sputnik ssa
27	60	cofepris sputnik v
28	74	Coronavac Sinovac China SER
29	83	Laboratorios Liomont AstraZeneca Marcelo Ebrard
30	87	#SputnikV vaccination Mexico
31	101	Viri Ríos vacunas covid
32	111	Johnson & Johnson vacuna FDA México
33	137	covid #FuerzaGatell
34	138	López Gatell Pronta recuperación recupérese
35	140	Ecatepec vacuna covid
36	143	Xochimilco vacuna covid
37	144	Tláhuac vacuna covid
38	145	Iztacalco vacuna covid
39	147	Almirante marina Rafael Ojeda covid
40	148	ONU AMLO vacunas covid
41	149	covax México Ebrard
42	153	Ackerman Conacyt pandemia
43	154	Sinovac Marcelo Ebrard
44	155	AMLO vacuna covid
45	156	ONU florero acaparamiento vacuna

46	157	Covax ONU vacuna México
47	158	Coronavac vacuna Mexico
48	162	#DrMuerte
49	173	#SputnikVaccinated Mexico
50	181	Cepillin covid
51	182	Casa Blanca covid Mexico
52	183	Vacuna covid AMLO Biden
53	184	Jorge Alcocer vacuna Pfizer
54	185	Jorge Alcocer Gatell covid
55	186	Sinovac covid certificado Ebrard
56	187	Dolia Estévez SCJN vacuna covid
57	188	Azcapotzalco vacuna covid
58	189	Miguel Hidalgo vacuna covid
59	223	Cepillin coronavirus
60	224	Sinopharm Marcelo Ebrard
61	225	Toluca vacuna covid
62	226	Nuevo León Sinovac
63	227	Nuevo León vacuna covid
64	228	AstraZeneca vacuna Mexico Dinamarca
65	229	AstraZeneca vacuna Mexico
66	230	Jorge Alcocer covid vacunación
67	231	Fase 3 vacuna Ebrard
68	232	Fase 3 vacuna Gatell
69	233	CanSino vacuna Mexico
70	234	Sergio Mayer Gatell pandemia
71	235	Remdesivir COFEPRIS
72	236	Sinovac vacuna Mexico
73	237	San Pedro Cholula vacuna covid

74	238	Cancún covid Buenos Aires
75	8295	AstraZeneca vacuna Mexico Alemania
76	8296	AstraZeneca vacuna Mexico Francia
77	8297	AstraZeneca vacuna Mexico Italia
78	8298	Venustiano Carranza vacuna covid
79	8299	Pfizer vacuna Mexico
80	8300	Sputnik vacuna Mexico
81	8301	#VacunasEnChimalhuacán
82	8302	Coyoacán vacuna covid
83	8303	Tlalpan vacuna covid
84	8304	AstraZeneca fase 3 México
85	8305	CanSino Drugmex
86	8306	Laurie Ann Gatell
87	8307	Sputnik vacuna falsa Mexico
88	8308	#Covid_19mx
89	8309	#sinvacunasnohayregreso
90	8310	#VacunacionEdomex
91	8311	#VacunaEdomex
92	8312	#EstrategiaDeVacunación
93	8313	#VacunaciónEnIxtapaluca
94	8314	Iztapalapa vacuna covid
95	8315	Gustavo A. Madero vacuna covid
96	8316	#SputnikV Argentina México
97	8317	Sputnik V Argentina México
98	8318	#SputnikV Alberto Fernández México
99	8319	Sputnik V Alberto Fernández México
100	8320	#PueblaSinSegundaDosis
101	8321	#VacunenAMédicosYa

102	8322	Covaxin Cofepris
103	8323	Covaxin Ebrard
104	8324	AstraZeneca vacuna AMLO
105	8325	Covaxin vacuna México
106	8326	Llegaron a México vacunas Ebrard
107	8327	vacuna eficacia México
108	8328	vacunación covid personal médico México
109	8329	Krauze #SputnikV
110	8330	Krauze Sputnik
111	8331	The Guardian AMLO pandemia
112	8332	The Guardian AMLO covid
113	8333	Zacatenco vacuna error
114	8334	#vacuNADA
115	8335	#VacunasDeAire
116	8336	difamación Sheinbaum vacunación
117	8337	vacuna estrategia electoral AMLO
118	8338	Ebrard vacuna
119	8339	Ebrard vacuna México
120	8340	Alcocer AMLO inmune
121	8341	#EstudiantesDebenSerVacunados
122	8342	vacunación médicos privados México
123	8343	vileza Calderón médicos
124	8344	#PrevenirEsSalud
125	8345	Patria vacuna Mexico
126	8346	Patria vacuna CONACYT
127	8347	vacunación maestros Gatell
128	8348	vacunación maestros México
129	8349	Universidad de California covid México

130	8350	Universidad de California covid AMLO
131	8351	UNESCO CDMX covid
132	8352	vacunación docentes Gatell
133	8353	vacunación personal educativo Gatell
134	8354	vacunación docentes México
135	8355	vacunación personal educativo México
136	8356	CanSino personal educativo
137	8357	CanSino maestros
138	8358	#RegresoAClases covid
139	8359	Dresser estrategia de vacunación
140	8360	Alcocer mañanera covid
141	8361	Quadri estrategia de vacunación
142	8362	#VacunaciónChimalhuacán
143	8363	#CuidemosTodosDeTodos
144	8364	adultos vacunación covid México
145	8365	vacuna 50 a 59
146	8366	#AgilicenVacunasParaTodos
147	8367	Milpa Alta vacuna covid
148	8368	Cuajimalpa vacuna covid
149	8369	Magdalena Contreras vacuna covid
150	8370	#Vacunación50a59Edomex
151	8371	#vacunacion50a59
152	8372	vacunación 50 a 59

This process is conducted automatically and uninterruptedly on one of the Tec de Monterrey servers. Due to the enormous number of tweets that this search returned, it was necessary to build a robust, efficient system with high download speed.

9.2. System structure

For the bulk download of tweets, a computational tool was built that was capable of establishing connections with the Twitter API and the database, grouping queries and read and write operations, grouping data and operations to establish relationships between entities, and creating reusable scripts. For this purpose, the tool consists of layered architecture to facilitate the aforementioned features.

The **connection layer** is responsible for handling system connections to the database and the Twitter API. For the Twitter API, this layer also handles the timeouts necessary to not exceed the call quota, as well as access permissions for features such as the historical search. With regard to the database, multiple connections are established in order to be able to execute operations simultaneously.

The **services layer** is responsible for grouping read and write operations to the database, as well as API calls and data normalization. The **model layer** uses object-oriented programming to group methods and data, and to establish connections and relationships between the different entities. Finally, in the **scripting layer**, different programs are made to perform different tasks, such as executing a list of tweets, updating statistics for a specific tweet, etc.

This structure allows optimization of performance in the operations of each layer, while allowing greater flexibility and robustness in the implementation of the code.

9.3. Single query execution

Based on the above, the process of executing a query can be performed in a simple way. The *Query* table in the database stores information such as:

- *queryID*: Unique identifier for each query.
- *query*: The text of the query to be executed.
- *oldestDate*: Record of the date of the oldest tweet downloaded at the time corresponding to the query.
- *shouldExecute*: Indicates whether the query should be executed.
- *isComplete*: Indicates if the query finished its execution.

The API returns tweets from a query in order of descending date, each page containing 500 tweets, from one token to the next. Each tweet is downloaded individually and the *oldestDate* field of the query is updated to reflect the date the tweet was created. The API is then recalled to

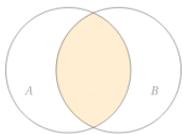
execute the next page of tweets. This is repeated until there are no more pages and they have all been downloaded.

The API also allows you to include parameters to define the time range of the search. For each search, this ranges from January 1, 2020, to the date indicated in the *oldestDate* field. Thus, no matter how many times it is performed, the process will not return tweets that have been previously inserted. Once all tweets have been collected, the *isComplete* field is updated to indicate that the process is complete.

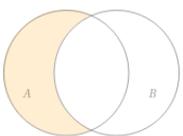
9.3. Queries as sets

With the above model, the issue of bulk downloading is reduced to the efficient execution of a predefined list of queries. While the obvious answer would be to execute such a list in order, this does not guarantee efficient execution. This is why it is important to understand how queries work in the Twitter API.

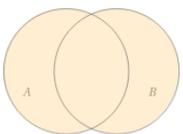
Each query is composed of a series of keywords and operators that return a set of tweets from the Twitter universe. A keyword in a query returns all tweets containing that keyword.¹



An "A B" query composed of two keywords joined by a space returns the intersection between the set of tweets with keyword "A" and the set of tweets with keyword "B". Essentially, it returns all tweets that have both keywords ($Q = A \cap B$).



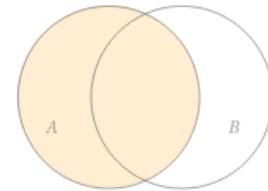
An "A -B" query composed of two keywords, joined by a space and with a hyphen before one of them, returns the intersection between the set of tweets with keyword "A" *excluding* the set of tweets with keyword "B". In other words, the hyphen operator (-) denies a keyword, returning its counterpart. This means that such a query would return tweets with keyword "A" that do not contain keyword "B". ($Q = A \cap B'$).



An "A OR B" query composed of two keywords joined by an OR operator returns the *union* between the set of tweets with keyword "A", and the set of tweets with keyword "B". This means that it returns all tweets that contain either of the two ($Q = A \cup B$).

¹ By means of parentheses grouping, it is possible to perform this same procedure recursively, considering the sub-queries as keywords.

This is of vital importance when considering that there may be many intersections in the keywords of the queries analyzed during this research. Consider for example, queries "A" and "A B". At first glance, it is evident that $A \supset A \cap B$ (the set of "A" contains "A B"). Running both independently means downloading the same subset of tweets twice, affecting the performance and efficiency of the bulk download.

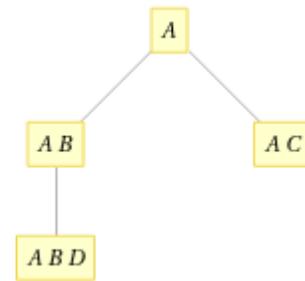


A more efficient way would be:

- First run query "A B" and download all its tweets.
- Associate the tweets from query "A B" with query "A".
- Download all the missing tweets from "A". That is, "A -B".

9.4. Query dependency tree

In other words, the analysis of the function of queries as sets allows us to observe that there are ambiguous queries that "contain" more specific queries. From this, it is possible to visualize this type of relationship with a tree, in which a query may have more specific queries as subsidiaries.²



By comparing all the queries, it is possible to build a dependency tree of queries, where each node is assigned properties:

- *queryID*: Identifier of the query within the database
- *depth*: Depth of the node within the tree
- *weight*: Node weight determined from the estimated number of tweets to be downloaded
- *query*: The keywords that make up the query
- *children*: List of child nodes
- *queryWithFilters*: Query with filters. The intersection of the query complement of each of its children is added to the original query.

² The comparison between queries to build the tree was performed considering only keyword matches. However, this does not reflect Twitter's search behavior, which allows for keyword alterations. Twitter does not share information about the process of identifying query results. Therefore, it is possible that there are queries that are not associated that should be.

It is important to remember that given their characteristics, only some of the queries can be matched to form trees. A list structure of trees and isolated nodes is then formed. To make better use of the time available for the project, the list is sorted in ascending order using the weight of each node as a criterion.

9.5. Execution

Using the above methodology, it is possible to significantly reduce the execution time of queries by eliminating large amounts of duplicates. The structure described above is stored in a JSON file that can be read multiple times by the application. Thus, the bulk download problem is reduced to simply running through each of the nodes.

- The list is read in order, and each tree in a post-order (start reading through the children before reaching the parents and repeating the procedure). This ensures that the nodes with the lowest weight are read first (logically it is identified that the children will have lower weight than their parents).
- When a node is read, all tweets associated with its descendants are imported and executed using the `queryWithFilters` property to collect the missing tweets.

By running this process, improvements in execution time were quickly evident. Lower-weight queries on topics that were trending for short periods of time were executed first, in a matter of minutes. Eliminating duplicates on heavier queries with descendants reduced execution time to hours. Finally, the heavier and more ambiguous queries could be completed in a few days.

Figures 45 and 46 were generated from the periodic monitoring of the download status. A considerable improvement can be observed since the implementation of this methodology on July 5, 2021. One can see how, by eliminating duplicate results, the rate of tweets downloaded per day and the rate of completed queries per day increased.

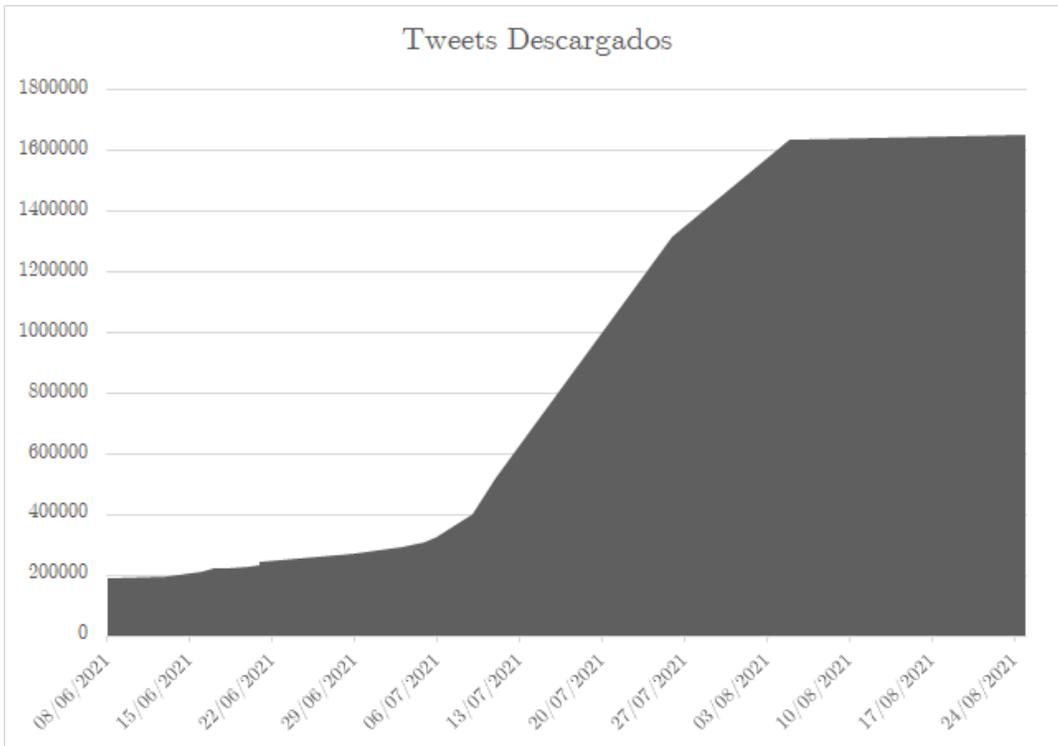


Figure 45. Rate of tweets downloaded per day. Source: Authors' own work.

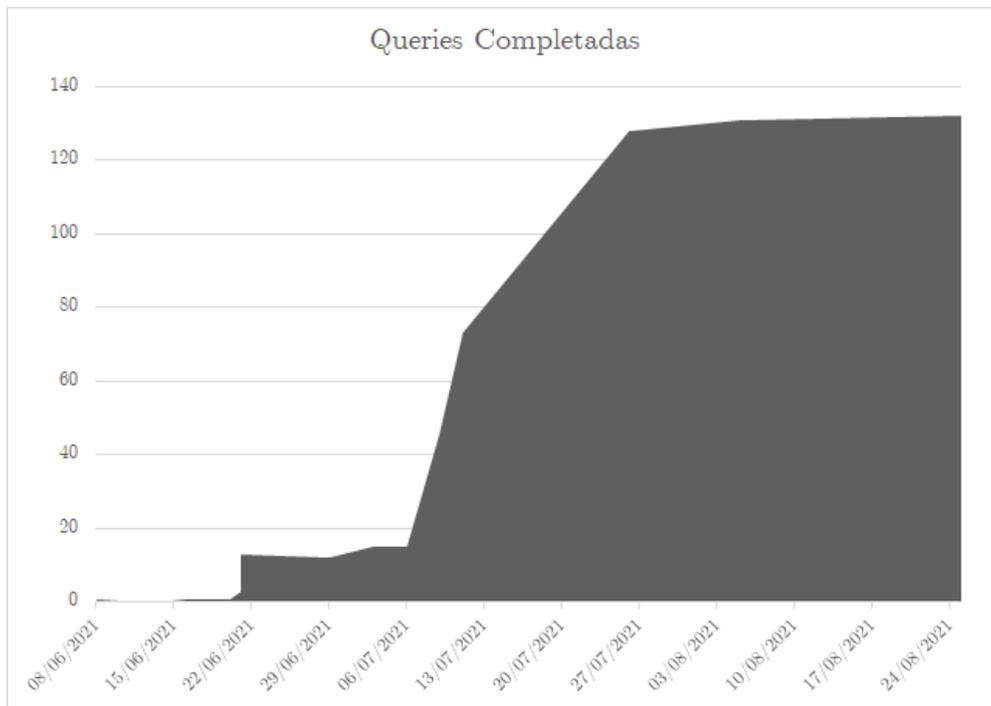


Figure 46. Rate of queries completed per day. Source: Authors' own work.

From this data and the implementation of the tree method, we can identify an average rate of 2.29 *queries* executed per day and 18.2 tweets downloaded per minute. Thus, on August 24, 2021, the bulk download of 131 *queries* could be efficiently completed, with 1.5 million tweets, 133 thousand related tweets, and 436 thousand users. Running this process in the shortest amount of time possible allows the team to conduct the necessary scoping analyses in parallel.

9.6. Impact and integration

Performing the bulk download efficiently allows access to a significant sample of public opinion on the issues addressed by the *queries* explored. The tool developed was successful and allowed for the prompt download of information for subsequent analysis. It also allowed the Universidad del Rosario team to download a query in a few minutes.

Using criteria agreed upon by the team of experts, it was possible to generate a sample of 20,036 most representative tweets from the data generated for further analysis.

10. Appendix B. Work in Progress: Tweet Classifiers

The research and development of computational algorithms to aid in the detection of fake news and propaganda has also focused on automated tweet classification. Two models for automated classification of false information and disinformation have been under construction, with varying degrees of complexity. The first is a natural language programming algorithm called Bidirectional Encoder Representations from Transformers (BERT), which is trained from a manual classification sample of tweets into disinformation categories; the algorithm learns from the training sample to make predictions on test samples. The second consists of a sentiment-based tweet classifier. This classifier is a multinomial logistic model that predicts the probability that a tweet is false, disinformation or true, based on sentiment variables. That is, it estimates the probability that a tweet is false conditional on whether its content is fearful or negative. The classifier is also trained with a database that was manually classified, to yield predictions on test samples.

10.1 BERT

Having a larger sample size after double verification allows for a much more complete dataset, enabling any predictive and classification model to find features and patterns in the data. In this case, BERT, the transformer model, was trained with the classified data through the double

verification process, where the human classification underwent several revisions until reaching its final classification. The first step in training this model consisted of passing the binary columns to a single numerical classification. As a classification method, two models were chosen: a multiclass model with the complete categories, and a binary model.

The distribution of data in the multiclass model is shown below, where a higher frequency is observed for true and unverifiable type tweets. This imbalance of thousands against other categories makes the training much more complex. This is because the classes are not balanced, therefore the prediction is less accurate and favors true tweets.

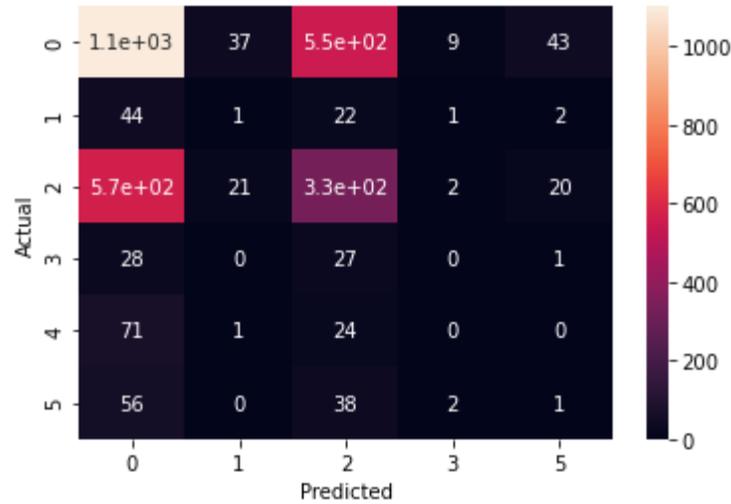
Verdadero	11558
NoVerificable	7036
ProGob	623
ContraGob	328
Misinformation	245
Desinformation	245

Distribution of data in categories

This model was trained for 10 *epochs* for 4 hours using transformers and *scikit* learn to perform the data randomization and *splitting* for training and validation.

Report on multiclass model classification

The classification report shows how the model lacks the ability to classify category 4, i.e., misinformation, and has a low accuracy for disinformation and contragob. This is due to the lack of data for these classes. However, for true, 77 percent accuracy is observed as well as 66 percent for progob. The model has an overall accuracy of 71 percent. However, the model fails to classify all classes with a low level of error. This can be a basis for retraining with a new sample and pooling all previous human classifications. Thus, increasing the amount of data, and decreasing the imbalance between classes.



Confusion matrix of the multiclass model

The confusion matrix shows the common errors of the classifier, as well as its accuracy. It can be seen how the model tends to confuse true tweets with progob tweets and vice versa. Despite showing problems with the accuracy of the model, it also gives us information about both categories, indicating that there are characteristics or elements that these two categories share which is why the model is experiencing these flaws. This observation can also be linked to sentiment where there are also similar features in the semantic construction of the sentences used in the tweets.

Subsequently, it was decided to create a binary classifier, where the tweets will be classified by grouping all the categories that were not true in false, grouping the true tweets in a second category. Therefore, the classifier could work as an intermediate layer in a classifier combined with other machine learning methods or as a filter to be able to do manual classifications, and thus focus on collecting more tweets for the desired categories. The new distribution of tweets is shown below.

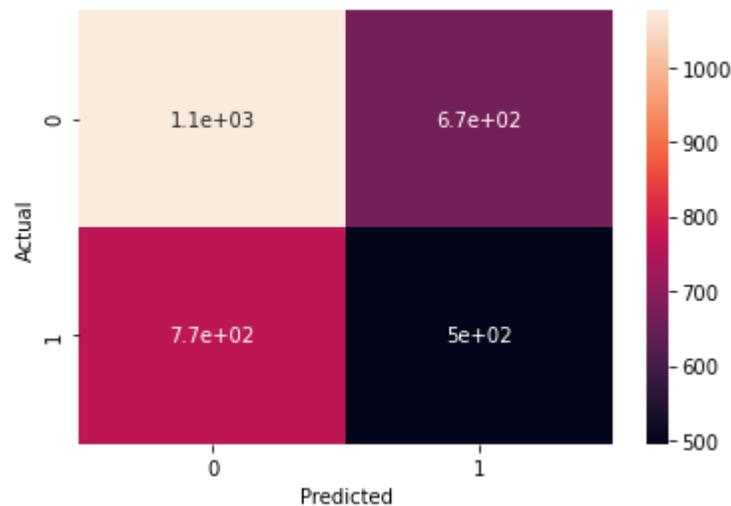
Verdadero	11558
Falso	8477

Distribution of data into categories

	precision	recall	f1-score	support
0	0.77	0.81	0.79	1734
1	0.72	0.66	0.69	1272
accuracy			0.75	3006
macro avg	0.74	0.74	0.74	3006
weighted avg	0.75	0.75	0.75	3006

Multiclass model classification report

After the training, results show that the accuracy of each class is practically homogeneous (above 70 percent) and has an overall model accuracy of 75 percent. This model is much more accurate and can serve as a support method for the detection of fake news by allowing the user to see only tweets with possible categorization as *misinformation*, *disinformation*, *progob*, and *contragob*.



Confusion matrix of the multiclass model

Finally, the confusion matrix shows how the model makes use of the characteristics and elements found for classification. It is observed how it can classify each category even though there is overlap in some circumstances. The model could also benefit from more and a wider variety of data to find clearer patterns for each classification class.

In conclusion, the BERT model showed a significant increase in accuracy over previous models. It went from 48 percent to more than 70 percent, indicating a significant relationship between the data and the accuracy of the model. Thus, the current model for binary detection can be used for the current bulk downloads to obtain the necessary data to classify the other categories. Likewise,

it is recommended to use this model together with other classifier models in order to have several results, and take from these the value with the highest occurrence for each tweet. Another possible method of increasing the accuracy of the model would be to group the misinformation and disinformation tweets into a single category, as well as grouping progob and contragob into another. Reducing the number of classes increases the likelihood that the model can classify with greater accuracy.

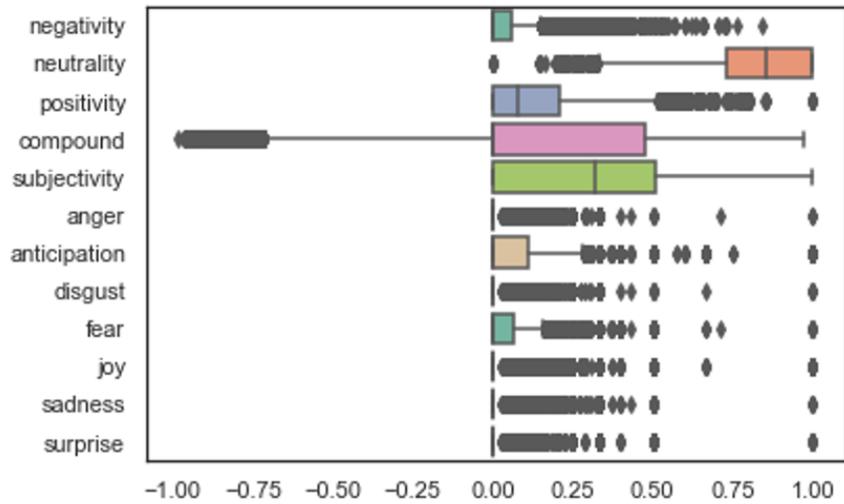
10.2 Sentiment-based classifier

The Sentiment Analysis technique has previously been used to analyze tweets in the context of the COVID-19 pandemic. Llano et al. (2020) analyzed the intensity of emotions/sentiments (e.g., positive, negative, confidence, fear, anger) in COVID-19 related tweets, using VADER and NRC Emolex. They applied Latent Dirichlet Allocation (LDA) to identify themes, represented by sets of related keywords. Similarly, Chandrasekaran and colleagues (2020) first applied LDA on tweets to identify topics, and subsequently used VADER to identify examples of tweets with positive or negative polarity.

We use a subset of the sample of 20,036 tweets tagged by experts. The subset is 15,000 tweets, which are those for which emotions/sentiments reflected in the text of the tweet itself could be calculated. Negativity, Neutrality, Positivity, and Compound are generated by VADER. Subjectivity is generated by TextBlob. Anger, Anticipation, Disgust, Fear, Joy, Sadness and Surprise are sourced by NCR EmoLex.

10.2.1 Distribution of emotions in the sample

We used box and whisker plots (*boxplots*) instead of averages, to observe the range of values in each sentiment of the tweets classified in each category. Figure 1 shows these boxplots from the sentiments identified in the tweets across categories. The diagram shows the sentiments distributed in quartiles, with the first quartile (Q1) being the median of the lower half of the data set, and the third quartile (Q3) being the median of the upper half of the data. The box includes the region between Q1 and Q3 with a horizontal line drawn in between, denoting the median.



Distribution of feelings/emotions across the entire sample.

Table 4 shows the values that delimit the first and third quartiles, shown in Figure 1. Tweets showing emotions outside these ranges can be considered statistically outside the normal range, and susceptible to expert analysis. One can observe that some emotions such as Disgust and Joy are commonly at zero.

Feature	Q1	Q3
Negativity	0.000	0.060
Neutrality	0.734	1.000
Positivity	0.000	0.206
Compound	0.000	0.477
Subjectivity	0.000	0.509
Anger	0.000	0.000
Anticipation	0.000	0.111
Disgust	0.000	0.000
Fear	0.000	0.067
Joy	0.000	0.000
Sadness	0.000	0.000
Surprise	0.000	0.000

Table 4. *Interquartile range of the sample.*

We observe that the distribution of emotions in the different categories does not show significant discrepancies. However, a classifier could detect differences to distinguish between tweets in those categories.

10.2.2 Emotions that distinguish tweets by category

Before training a classifier to learn to distinguish tweets from each category, we used logistic regression models that facilitate the identification of emotions to distinguish whether a tweet falls into any of the above categories. We first trained it with true information and found that emotions such as disgust and neutrality point to a piece of true information. In contrast, the presence of fear, joy, positivity, or sadness point to the information not being true (see Figure 47).

		True
VADER	negativity	x
	neutrality	0.1955
	positivity	-0.6137
Text Blob	subjectivity	x
	anger	x
	anticipation	-0.33
NRC EmoLex	disgust	0.9201
	fear	-0.8131
	joy	-0.7365
	sadness	-0.7832
	surprise	x

Figure 47. Logistic regression coefficients to identify true information.

Both *misinformation* and disinformation show neutrality and surprise; while negativity, anticipation, disgust, and sadness indicate that the tweets in question fall into some other category (Figure 48). However, anger helps discriminate between disinformation and *misinformation*. Surprise is present in both, but with more emphasis on *misinformation*. Finally, we note that disgust helps to reject the hypothesis that a tweet is misinformation.

		Misinformation	Disinformation
VADER	negativity	-0.4056	-0.547
	neutrality	0.2056	0.19
	positivity	x	-0.5615
Text Blob	subjectivity	x	0.2368
	anger	-2.2105	4.227
	anticipation	-0.9108	-1.4382
NRC EmoLex	disgust	-7.6246	-1.8134
	fear	x	-1.9818
	joy	-3.0856	x
	sadness	-1.523	-2.332
	surprise	4.2896	0.965

Figure 48. Logistic regression coefficients to identify misinformation and disinformation.

On the other hand, both *progob* and *contragob* show subjectivity, while positivity indicates that it is not propaganda (see Figure 49). Anger, disgust, and sadness help in discriminating pro- or anti-government propaganda. Anticipation helps recognize *contragob*, while surprise distinguishes *progob*.

		ProGob	ContraGob
VADER	negativity	x	x
	neutrality	0.0823	x
	positivity	-0.8452	-0.7445
Text Blob	subjectivity	0.2606	0.3225
	anger	-3.7148	2.7754
	anticipation	x	-0.9855
NRC EmoLex	disgust	-1.2724	0.8129
	fear	x	x
	joy	x	x
	sadness	0.8085	-1.1693
	surprise	-1.6343	x

Figure 49. Logistic regression coefficients to identify proGob and contraGob.

In conclusion, the differences found both between *misinformation* and disinformation and between *progob* and *contragob* show that it is better to address them separately.

10.2.3 Multiclass Classifier using *Random Forest*

We then trained a Random Forest multiclass classifier with 80 percent of the sample data, and tested it on 2,030 tweets that were not included in the training sample. The results show that the classifier is good at identifying tweets in the four categories of interest (*misinformation*,

disinformation, *progob*, and *contragob*), even though it cannot recognize all tweets in these categories.

Table 5 shows the overlap that exists between categories of test sample tweets, i.e., how many tweets were classified into two categories by an expert. There are no tweets classified as both *misinformation* and *disinformation* at the same time. The same happens between *progob* and *contragob*. However, we can observe propaganda tweets (*progob* and *contragob*) labeled also as true information, *misinformation*, and *disinformation*.

	True	Misinformation	Disinformation	Progob	Contragob
True	1778	0	0	44	37
Misinformation		52	0	2	3
Disinformation			57	11	16
Progob				150	0
Contragob					106

Table 5. *Overlap between categories in the test set.*

Since there are far more true tweets than other types (88 percent of the sample is true), an oversampling technique was applied. MLSMOTE (Charte et al, 2015) generates synthetic data from the underrepresented data, which were used to balance the overall data. MLSMOTE is specially designed for data that may fall into more than one category, as in this case.

Figure 50 shows the classification report for the test sample. The classifier achieves high accuracy for all categories (72 percent - 92 percent), but only has a high *recall* for true information (85 percent). Misinformation and progob had the worst recall (21 percent and 19 percent, respectively), while ContraGob had 25 percent and *disinformation* had a 39 percent *recall*. This means that the classifier identifies very few tweets in these last four categories, but most of them are correctly classified.

	precision	recall	f1-score	support
0	0.82	0.85	0.84	1778
1	0.92	0.21	0.34	52
2	0.92	0.39	0.54	57
3	0.85	0.19	0.32	150
4	0.72	0.25	0.37	106
micro avg	0.82	0.75	0.78	2143
macro avg	0.85	0.38	0.48	2143
weighted avg	0.83	0.75	0.76	2143
samples avg	0.51	0.50	0.50	2143

Figure 50. Sentiment-based, multiclass classification report using Random Forest

Since there is data classified into more than one category, we use a "One-vs-Rest" strategy for multiclass classification. This implies that a tweet can be labeled by the classifier in multiple categories. Figure 51 shows a confusion matrix contrasting the actual label (rows) with the label predicted by the classifier (columns). The diagonal shows the correct predictions, while the off-diagonal numbers represent prediction errors. We added an additional column to account for those tweets that were not classified into any category.

		PREDICTED					
		True	Misinformation	Disinformation	ProGob	ContraGob	No classified
A	True	1517	1	2	7	15	253
C	Misinformation	15	11	0	1	1	26
T	Disinformation	12	0	22	6	8	22
U	ProGob	60	1	5	29	1	65
A	ContraGob	47	1	7	1	26	41

Figure 51. Confusion matrix: actual labels (human expert) versus predicted labels (classifier).

As shown in Figure 3, multiple tweets corresponding to *misinformation*, *disinformation*, *progob* and *contragob* are classified as true information (first column). The classifier does not label *misinformation* as *disinformation*, nor vice versa. It classifies only one *progob* tweet as *contragob* and one *contragob* tweet as *progob*. This means that the classifier was able to distinguish between these categories. Otherwise, many tweets were not detected by the classifier (see last column).

In conclusion, this classifier is appropriate for detecting fake news that will be reviewed manually by experts. Also, the results indicate that *misinformation* and *disinformation* should not be combined, nor should *progob* with *contragob*, as tweets in these categories show different sentiments that help recognize them.

In the future, we recommended incorporating additional features (e.g., retweets, user followers), and providing an additional sample of manually labeled tweets. The current classifier can be used to select tweets to be tagged manually. Another alternative is to use a sample of replies and quotes and apply sentiment analysis to use the sentiment ranks to train the classifier, i.e., the sentiments elicited by the cataloged tweets.

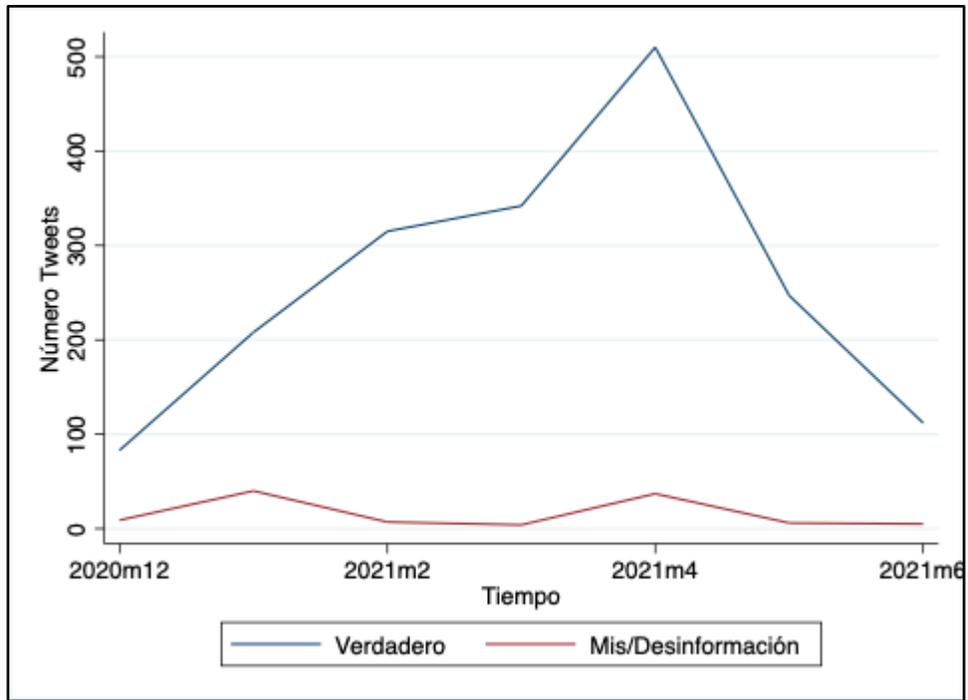
11. Appendix C. Figures and Tables Derived from the Sample of 3,000 Tweets

Figure I: Most influential accounts

	Nombre	Frecuencia	Verdadero	Mis_Desinf-n	Favor_Gob	Contra_Gob	No_verific-e
1	SaludEdomex	197	1	0	0	0	0
2	SeducEdoMex	175	.9942857	0	0	0	0
3	Edomex	161	.98136646	0	0	0	.00621118
4	ONNEE	82	.84146339	.0121951	0	0	.14634146
5	SecretariadoGEM	68	.97058821	0	0	0	.01470588
6	lopezdoriga	68	.91176468	.0147059	0	0	.07352941
7	SSalud_mx	53	1	0	0	0	0
8	jcedomex	47	1	0	0	0	0
9	AristeguiOnline	46	.97826087	0	0	0	.02173913
10	COBAEMex	46	.95652175	0	0	0	.02173913
11	SGGEdomex	35	1	0	0	0	0
12	El_Universal_Mx	32	.8125	0	0	.03125	.1875
13	proceso	31	.96774191	0	0	0	.03225806
14	CampoEdomex	29	1	0	0	0	0
15	latinus_us	28	.89285713	0	0	0	.10714286
16	Claudiashein	28	1	0	0	0	0
17	doctormacias	27	.66666669	.037037	0	0	.25925925
18	Milenio	26	.88461536	.0384615	0	0	.07692308
19	alfredodelmazo	24	1	0	0	0	0
20	Pajaropolitico	23	1	0	0	0	0
21	GobCDMX	20	1	0	0	0	0
22	lajornadaonline	17	1	0	0	0	0
23	SS_Edomex	16	1	0	0	0	0
24	Reforma	16	.8125	.0625	0	0	.125
25	sopitas	15	.73333335	0	0	0	.26666668
26	el_pais	15	.93333334	0	0	0	.06666667
27	m_ebrard	14	1	0	0	0	0
28	DIFEM_	14	1	0	0	0	0
29	AlertaNews24	14	1	0	0	0	0
30	VTVcanal8	13	.92307693	0	0	0	.07692308
31	Revolucion3_0	13	.69230771	.0769231	.23076923	0	.23076923
32	ActualidadRT	13	1	0	0	0	0
33	dw_espanol	12	1	0	0	0	0
34	rparrawong	12	1	0	0	0	0
35	SinEmbargoMX	12	1	0	0	0	0
36	SinLinea_Mx	10	.80000001	0	.1	0	.1
37	ConElMazoDando	10	.80000001	0	0	0	.2
38	conaleptianguis	10	1	0	0	0	0
39	ICAMEXoficial	10	1	0	0	0	0
40	ferbelaunzaran	10	.2	0	0	.5	.5
41	Reuters	10	.89999998	0	0	0	.1
42	HLGatell	10	1	0	0	0	0

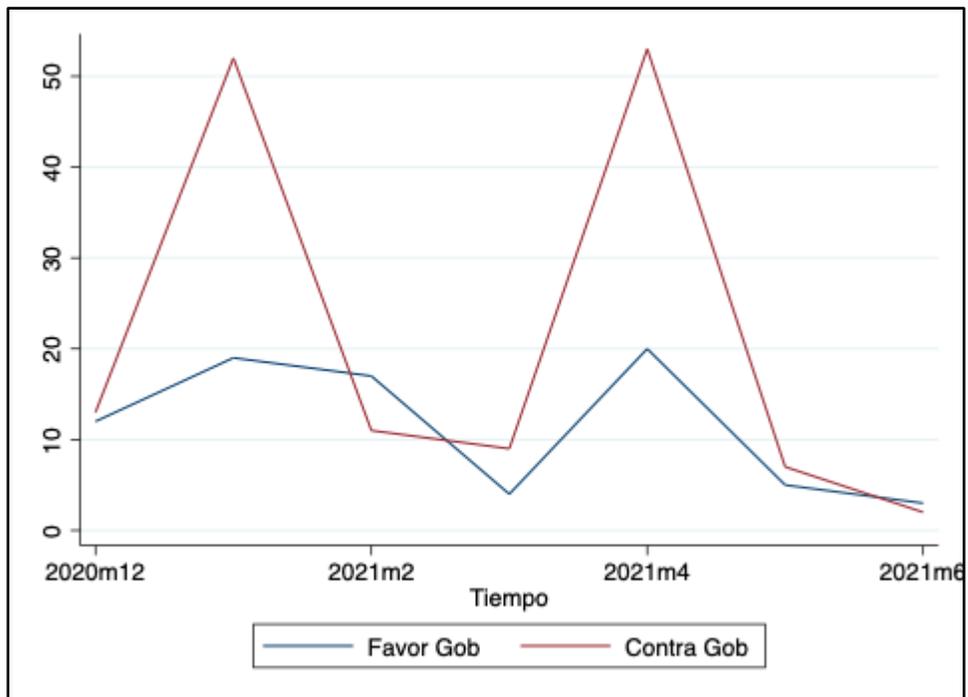
Source: Twitter

Figure II: Evolution over time of true tweets and those with *misinformation*/disinformation



Source: Twitter

Figure III: Evolution over time of tweets in favor of/against the government



Source: Twitter

Table I: Descriptive Statistics

Source: Twitter.

Table II: Effect of *misinformation*/disinformation on Likes, Retweets and Replies

	Likes (1)	Likes (2)	Retweets (3)	Retweets (4)	Replies (5)	Replies (6)
Misinformation/Disinformation (1=Si)	136.696 (119.988)	154.533 (127.864)	64.049 (51.663)	65.778 (55.047)	-4.778 (27.470)	4.802 (29.709)
Verificado (1=Si)		272.473*** (63.384)		101.590*** (27.288)		39.284*** (14.727)
Followers/Following		-0.000 (0.000)		-0.001** (0.000)		0.000 (0.000)
Other Controls	No	Yes	No	Yes	No	Yes
R ²	0.00	0.05	0.00	0.05	0.00	0.03
Observations	1925	1925	1925	1925	1925	1925

Source: Twitter. Notes: Other controls include year, month, day, and time.

Table III: Effect of pro-government tweets on Likes, Retweets, and Replies

	Likes (1)	Likes (2)	Retweets (3)	Retweets (4)	Replies (5)	Replies (6)
Tuits a favor Gobierno (1=Si)	-589.270*** (203.837)	-722.866*** (234.274)	-220.191*** (74.442)	-259.139*** (83.777)	-9.374 (17.100)	-6.205 (18.989)
Verificado (1=Si)		320.352 (321.566)		141.228 (114.993)		95.836*** (26.065)
Followers/Following		0.233** (0.111)		0.105*** (0.040)		0.021** (0.009)
Other Controls	No	Yes	No	Yes	No	Yes
R ²	0.04	0.21	0.04	0.24	0.00	0.23
Observations	227	227	227	227	227	227

Source: Twitter. Notes: Other controls include year, month, day, and time.

Table IV: Effect of verified misinformation/disinformation and pro-government tweets

	Misinformation/ Disinformation (1)	Misinformation/ Disinformation (2)	Tuits Favor Gobierno (3)	Tuits Favor Gobierno (4)
Verificado (1=Si)	-0.137*** (0.011)	-0.137*** (0.011)	-0.184** (0.092)	-0.044 (0.100)
Followers/Following		-0.000 (0.000)		-0.001* (0.000)
Other Controls	No	Yes	No	Yes
R ²	0.07	0.15	0.02	0.26
Observations	1925	1925	227	227

Source: Twitter. Notes: Other controls include year, month, day, and time.

Appendix

This section includes detailed tweets reviewed as part of the sentiment analysis.

Tweet identification number	Text	User
1427320868234014730	#LIVE 🇷🇺 President of Venezuela @NicolasMaduro: In order to buy vaccines and medical supplies for the fight against # Covid_19, we have to move around the world. Venezuela is the only country in the world that does not have access to their accounts 📱 https://t.co/tqMKHfI0b4 https://t.co/zJM42Rte2O	teleSUR TV
1427315178920685579	#LIVE 🇷🇺 President of Venezuela @NicolasMaduro: Between August and September, we expect nearly 70% of the population to be vaccinated against #Covid_19 📱 https://t.co/tqMKHfI0b4 https://t.co/wWEBWK6eoQ	teleSUR TV

142730764874410 3942	RT @EduardomteleSUR: The National Coordinator of Education Workers #CNTE says no to returning to school, demands that several rounds of vaccination be carried out. Explains that classes have not stopped https://t.co/jAhjYqebdu	teleSUR TV
142724960425339 2897	#ONVIDEO 📺 #ArgentinaAR distributes the first shipment of #SputnikV vaccines 📄 produced in country in order to move forward with firm footing towards immunization of its entire population https://t.co/l32qoVXwVe	teleSUR TV
142677566009004 4417	The Ministry of Health of #ArgentinaAR reported this Saturday the formal launch of the distribution of the Russian #anticovid19 vaccine #SputnikV produced in national territory https://t.co/wc7srnuGfj	teleSUR TV
142673036154381 5178	The Ministry of Health of #ArgentinaAR reported this Saturday the formal launch of the distribution of the Russian #anticovid19 vaccine #SputnikV produced in national territory https://t.co/wc7srnd4QJ	teleSUR TV
142669531240032 2563	The Ministry of Health of #ArgentinaAR reported this Saturday the formal launch of the distribution of the Russian #anticovid19 vaccine #SputnikV produced in national territory https://t.co/gYmiuNVazs	teleSUR TV
142627687336595 4560	The #USA Food and Drug Administration 🇺🇸 @US_FDA authorized the third booster dose for vulnerable populations with #Pfizer_BioNTech and #Moderna anticovid vaccines 📄 https://t.co/XR9FZDQv3W	teleSUR TV
142618629482526 3105	The #USA Food and Drug Administration 🇺🇸 @US_FDA authorized the third booster dose for vulnerable populations with #Pfizer_BioNTech and #Moderna anticovid vaccines 📄 https://t.co/XR9FZDyUco	teleSUR TV
142607655378867 4048	The pharmaceutical laboratory @richmond_lab delivered more than a million doses of the	teleSUR TV

	Russian anti covid vaccine #SputnikV this Thursday to the #Argentina Ministry of Health AR , these are the first to be produced locally in the South American country 📱 https://t.co / Ex1cPZlc70	
1425990989831827458	Representatives of the Chinese CN pharmaceutical company #Sinovac, announced this Thursday that at the beginning of 2022 a vaccine plant will be set up in #Chile CL to manufacture 60 million vaccines a year and a research center 📱 https: // t. co / FEmCrtTy5s	teleSUR TV
1425985956734136324	The pharmaceutical laboratory @richmond_lab delivered more than a million doses of the Russian anti covid vaccine #SputnikV this Thursday to the #Argentina Ministry of Health AR , these are the first to be produced locally in the South American country 📱 https://t.co/Ex1cPZZMYy	teleSUR TV
1425895317329829894	The pharmaceutical laboratory @richmond_lab delivered more than a million doses of the Russian anti covid vaccine #SputnikV this Thursday to the #Argentina Ministry of Health AR , these are the first to be produced locally in the South American country 📱 https://t.co/Ex1cPZlc70	teleSUR TV
1425883531717357568	The Parliamentary Research Commission of the Senate of #Brazil BR listens to the testimony of the head of government of the #HouseofRepresentatives, Ricardo Barros, who is suspected of being involved in alleged irregularities in the purchase of the #Covaxin vaccine 📱 https: //t.co/ chtHtrJwwM	teleSUR TV
1425855211101462534	Representatives of the Chinese CN pharmaceutical company #Sinovac, announced this Thursday that at the beginning of 2022 a vaccine plant will be set up in #Chile CL to manufacture 60 million vaccines a year and a research center 📱 https://t.co/FEmCrtBXdU	teleSUR TV

1425843902343434247	RT @JuanCteleSUR: On Thursday the Argentine national government received the first shipment of just over a million doses of the local production of the Russian Sputnik V vaccine, known here as "Sputnik Vida". Argentina already has almost 45 million doses of different vaccines. @ConexiontlSUR https://t.co/AoIQj9r6Zf	teleSUR TV
1425838317845635082	The Parliamentary Research Commission of the Senate of #Brazil BR listens to the testimony of the head of government of the #HouseofRepresentatives, Ricardo Barros, who is suspected of being involved in alleged irregularities in the purchase of the #Covaxin vaccine 📺 https://t.co/chtHts17ok	teleSUR TV
1425706364257587203	#Russia ru announces 83% effectiveness of the #SputnikV vaccine against the #Covid_19 #Delta variant with respect to symptomatic infection and 94.4% effective against hospitalizations 📺 https://t.co/uismS7oeoe	teleSUR TV
1425661065954619402	#Russia ru announces 83% effectiveness of the #SputnikV vaccine against the #Covid_19 #Delta variant with respect to symptomatic infection and 94.4% effective against hospitalizations 📺 https://t.co/uismS76CZE	teleSUR TV
1425597192786558977	RT @AndreteleSUR: Organized by @ubesoficial, @anpg and @uneoficial, the #DiaDoEstudante mobilization's main motto is "Life, bread, vaccine and education". Ft: @mtvozesifrn #DiaDoEstudante https://t.co/N0Rn3ZigDu	teleSUR TV
1425559444411256838	RT @AndreteleSUR: Without VaccineBR The city of Rio de Janeiro, the epicenter of the Delta variant in Brazil, once again suspended vaccination because the Ministry of Health did not send enough doses. According to Mayor Eduardo Paes, the federal government has more than 10 million doses saved https://t.co/yNb2z5AFIn	teleSUR TV
1425525168579956745	#Russia ru announces 83% effectiveness of the #SputnikV vaccine against the #Covid_19 #Delta	teleSUR TV

	variant with respect to symptomatic infection and 94.4% effective against hospitalizations 📱 https://t.co/uismS7oeoe	
142546795168839 6805	Hospitals will begin process of selecting volunteers. The trial will be "randomized, controlled and covered" which means that the Hipra vaccine will be administered concealed to prevent its identification by both the patient and researchers https://t.co/TXZUrsbpnL	teleSUR TV
142546794354305 4341	The vaccine is based on two structurally similar recombinant proteins, one corresponding to the #Covid_19 #Alpha #variant and the other to the #Beta variant, which together form a structure called a dimer, with a substance that increases immune response📄 https://t.co/xDw9nXsErm	teleSUR TV
142546793881182 6201	📄 On #August11 the Medication and Health Product Agency of #Spaines authorized the first clinical trial of a #Spanish vaccine against #Covid_19, the #PHH1V drug from Hipra laboratories📄 https://t.co/7eZ2k5JYK1	teleSUR TV
142535806934150 7584	The Government of #Iran IR inaugurated the second production line of the #anticovid #Coviran vaccine, with the capacity to manufacture 3 million monthly doses https://t.co/cgrl6WgFdy	teleSUR TV
142531251912871 9364	The Government of #Iran IR inaugurated the second production line of the #anticovid #Coviran vaccine, with the capacity to manufacture 3 million monthly doses https://t.co/cgrl6Wyg56	teleSUR TV
142526238049005 5684	The Government of #Iran IR inaugurated the second production line of the #anticovid #Coviran vaccine, with the capacity to manufacture 3 million monthly doses https://t.co/c9gsOgkG8c	teleSUR TV
142519373645194 4451	This Wednesday #Boliviabo will receive 153,600 #AstraZeneca vaccines donated by Sweden under #COVAX, announced by president @LuchoXBolivia📱 https://t.co/vB1wQ37hgd	teleSUR TV
142510334528344 4750	This Wednesday #Boliviabo will receive 153,600 #AstraZeneca vaccines donated by Sweden	teleSUR TV

	under #COVAX, announced by president @LuchoXBolivia 📱 https://t.co/vB1wQ3oSEN	
142506572585786 5729	#ONVIDEO 📺 #ArgentinaAR approves combining vaccines against #Covid_19 to alleviate the shortage of second doses of #SputnikV What do international studies say about mixing vaccines? Is it mandatory or voluntary? We tell you 📱 https://t.co/K6854hgAEu	teleSUR TV
142484091175891 3537	The pediatric clinical trial of anti covid vaccination with the Cuban vaccine #Soberana02 will reach a milestone when the first adolescents included in the study receive the third dose, reported from the laboratory that developed the vaccine 📱 https://t.co/dCOkdnVA5M	teleSUR TV
142475034414431 4369	The pediatric clinical trial of anti covid vaccination with the Cuban vaccine #Soberana02 will reach a milestone when the first adolescents included in the study receive the third dose, reported from the laboratory that developed the vaccine 📱 https://t.co/dCOkdnDZee	teleSUR TV
142465090947726 1312	The president of #IranIR, #SeyedEbrahimRaisi, promised to prioritize vaccination during his government to combat the #Covid19 pandemic https://t.co/CA0HQ0wzb2	teleSUR TV
142460561097741 9267	The president of #IranIR, #SeyedEbrahimRaisi, promised to prioritize vaccination during his government to combat the #Covid19 pandemic https://t.co/CA0HQ0wzb2	teleSUR TV
142455544998306 6113	The president of #IranIR, #SeyedEbrahimRaisi, promised to prioritize vaccination during his government to combat the #Covid19 pandemic https://t.co/CA0HQ0wzb2	teleSUR TV
142386951071755 8792	The president of #China CN Xi Jinping, reported that his country will donate 2 billion doses of #vaccines this year to various nations in order to deal with #Covid_19 📱 https://t.co/9j4B6qk30r	teleSUR TV
142378553324378 9313	RT @AndreteleSUR : Vaccines save lives	teleSUR TV

	<p>95% of people hospitalized with Covid-19 in the city of Rio de Janeiro are not vaccinated with any dose, the municipality reported today. The city is on alert due to the spread of the Delta variant.</p> <p>https://t.co/FglwQuvMiy</p>	
1423756516247498752	<p>The president of #PerúPE @PedroCastilloTe was vaccinated this Friday as part of the vaccination program to counter conservatives' campaign against the Chinese #Sinopharm vaccine 🇵🇪 https://t.co/dvq3Pd1DsQ</p>	teleSUR TV
1423711244079489024	<p>The president of #PerúPE @PedroCastilloTe was vaccinated this Friday as part of the vaccination program to counter conservatives' campaign against the Chinese #Sinopharm vaccine 🇵🇪 https://t.co/dvq3PcK2Bi</p>	teleSUR TV
1423705438755885061	<p>#ONVIDEO Between new coronavirus variants that are much more contagious and a great inequality in the global distribution of anticovid vaccines, some countries are already applying a third booster dose against the virus.</p> <p>Does this reinforcement imply the failure of the vaccines? https://t.co/VZylr9zUIY</p>	teleSUR TV
1423688436914036737	<p>The president of #China CN Xi Jinping, reported that his country will donate 2 billion doses of #vaccines this year to various nations in order to deal with #Covid_19 🇨🇳 https://t.co/9j4B6qBEp1</p>	teleSUR TV
1423682605510238214	<p>#LIVE 🇸🇵 President of #Bolivia @LuchoXBolivia: Our fight is for life, and within the context of #covid_19 we are working on a comprehensive plan based on free testing, free and equitable vaccination, and coordination with state levels 🇸🇵 https://t.co/tqMKHfI0b4 https://t.co/i2XEuqHMMp</p>	teleSUR TV
1423681680926257154	<p>#LIVE 🇷🇺 President of #Bolivia @LuchoXBolivia: Our fight is for life, and within the context of #covid_19 we are working on a comprehensive plan based on free testing, free and equitable vaccination, and coordination with state levels 🇸🇵</p>	teleSUR TV

	https://t.co/tqMKHfI0b4 https://t.co/8nilot97Ep	
142362660507586 5603	RT @IramsyteleSUR : In the face of #Covid19, #China continues to carve out credentials for responsible power and pres. Xi Jinping announced that they will deliver two billion doses of vaccines globally this year and 100 million USD to Covax to promote the fair distribution of vaccines https://t.co/V1XtvXQhmk	teleSUR TV
142352297736728 1666	On August 5, the Ministry of Health of #Argentina AR reported the distribution of 1,514,940 doses of the #Moderna vaccine as second doses to the Russian vaccine #SputnikV in order to advance its immunization plan 📱 https://t.co/mQ9gbtT0Hs	teleSUR TV
142347767987400 2949	On August 5, the Ministry of Health of #Argentina AR reported the distribution of 1,514,940 doses of the #Moderna vaccine as second doses to the Russian vaccine #SputnikV in order to advance its immunization plan 📱 https://t.co/mQ9gbuaC62	teleSUR TV
142342357240029 5938	The Government of #SpainES began the donation of 7.5 million vaccines to Latin American and Caribbean countries through #Covax with a first shipment of 650,000 doses of #AstraZeneca 📱 https://t.co/3p8DIVEmiA	teleSUR TV
142333766672516 7108	RT @LemusteleSUR: Brazil reaches 20 million cases and 560 thousand lives lost. Vaccination with 1 dose reaches 49% and 20% with 2 doses. According to epidemiologist @PedroHallal 400,000 deaths could have been avoided without the denialist policies of the Bolsonaro government. @ConexiontISUR https://t.co/SimIfVM2Gm	teleSUR TV
142333306350178 7138	RT @JuanCteleSUR : Distribution of 1,514,940 doses of Moderna vaccine has begun and will reach 24 jurisdictions between Friday and Saturday, to make headway on application of second doses combined with other vaccines. The implementation of the vaccine combination is	teleSUR TV

	optional. @ ConexiónI SUR https://t.co/3oyVwO9wJ6	
142330276126596 7110	The Government of #SpainES began the donation of 7.5 million vaccines to Latin American and Caribbean countries through #Covax with a first shipment of 650,000 doses of #AstraZeneca 🇺🇸 https://t.co/3p8DIVEmiA	teleSUR TV
142327509463853 4656	The Government of #Argentina announced that it was in a position to combine the #SputnikV vaccine with #Moderna and #AstraZeneca, in order to complete immunization plan, given the risk posed by the rise of the #Delta variant https://t.co/5uLgctGTxp	teleSUR TV
142320689447525 1712	The Pan American Health Organization (PAHO) requested that more vaccines be urgently donated to #LatinAmerica and the #Caribbean, where positive cases of coronavirus continue to increase and only 18 percent of the population is reported as immunized. https://t.co/aSTKc9EjQ4	teleSUR TV
142320588782985 6256	The Federal University of Rio de Janeiro, #Brazil BR announced the development of the vaccine 📄 #UFRJVac to fight #COVID-19 🦠, it being in the last stages of testing on animals classified as preclinical studies. https://t.co/Nxus4JBKVP	teleSUR TV
142318449695892 6848	The Government of #Argentina announced that it was in a position to combine the #SputnikV vaccine with #Moderna and #AstraZeneca, in order to complete immunization plan, given the risk posed by the rise of the #Delta variant https://t.co/5uLgctpi8P	teleSUR TV
142316159610123 8787	The Pan American Health Organization (PAHO) requested that more vaccines 📄 be urgently donated to #LatinAmerica and the #Caribbean, where positive cases of coronavirus 🦠 continue to increase 📈 and only 18 percent of the population is reported as immunized. https://t.co/aSTKc9VVeE	teleSUR TV
142316058933808 7426	The Federal University of Rio de Janeiro, #Brazil BR announced the development of the vaccine 📄	teleSUR TV

	#UFRJVac to fight #COVID-19 🦠, it being in the last stages of testing on animals classified as preclinical studies. https://t.co/Nxus4Jk9xf	
1423124854211973121	Chief medical officer 🇬🇧 of #England 🇬🇧, Jonathan Van Tam, announced Executive order to expand the vaccination program 📄 against #COVID-19 🦠 for all 16 and 17-year-olds. https://t.co/bbFNgbhXWn	teleSUR TV
1423116486718238721	The Pan American Health Organization (PAHO) requested that more vaccines 📄 be urgently donated to #LatinAmerica and the #Caribbean, where positive cases of coronavirus 🦠 continue to increase 📈 and only 18 percent of the population is reported as immunized. https://t.co/dXe8qiJX9m	teleSUR TV
1423115483260276737	The Federal University of Rio de Janeiro, #Brazil 🇧🇷 announced the development of the vaccine 📄 #UFRJVac to fight #COVID-19 🦠, it being in the last stages of testing on animals classified as preclinical studies. https://t.co/Xx5VIm7G0u	teleSUR TV
1423089223943475202	The Government of #Argentina announced that it was in a position to combine the #SputnikV vaccine with #Moderna and #AstraZeneca, in order to complete immunization plan, given the risk posed by the rise of the #Delta variant https://t.co/5uLgctGTxp	teleSUR TV
1423079680459120645	Chief medical officer 🇬🇧 of #England 🇬🇧, Jonathan Van Tam, announced Executive order to expand the vaccination program 📄 against #COVID-19 🦠 for all 16 and 17-year-olds. https://t.co/3U2pEfSjss	teleSUR TV
1423071253821378561	#ONVIDEO #Cuba has applied 10 million doses against the coronavirus. Three-quarters of the capital's population is already immunized. At this rate, the island will be the first country in the world to vaccinate its entire population with local vaccines https://t.co/0F4mjp5bDz	teleSUR TV

142303601868133 9904	The @SSalud_mx reported that at least seven out of ten people have been vaccinated against the coronavirus https://t.co/4jY5gmyg7S	teleSUR TV
142301888150177 7926	RT @AndreteleSUR : BR 🇧🇷 The vaccine against Covid-19 produced by the Federal University of Rio de Janeiro, the UFRJ-Vac, will be analyzed and could even carry out clinical trials this year. This is an effort of a public university that almost closed its doors due to lack of resources. https://t.co/OxlUdsISPJ https://t.co/qrXz9Y5kaQ	teleSUR TV
142300103815237 2225	On Wednesday the @WHO requested a moratorium on the #Covid_19 vaccine boosters until close the end of September  https://t.co/RqWJcj0KEm	teleSUR TV
142295588781628 6215	On Wednesday the @WHO requested a moratorium on the #Covid_19 vaccine boosters until close the end of September  https://t.co/RqWJcjJ9MO	teleSUR TV
142287193746701 1072	The Russian Direct Investment Fund and the Argentine pharmaceutical company Richmond Laboratories reported that the Russian vaccine #SputnikV will be available this week 🇷🇺 https://t.co/KI5HDKqGqV	teleSUR TV
142285482495816 9090	The @SSalud_mx reported that at least seven out of ten people have been vaccinated against the coronavirus https://t.co/4jY5gmgEJi	teleSUR TV
142281153944304 4352	The Russian Direct Investment Fund and the Argentine pharmaceutical company Richmond Laboratories reported that the Russian vaccine #SputnikV will be available this week 🇷🇺 https://t.co/KI5HDKIhit	teleSUR TV
142281023946906 8288	The @SSalud_mx reported that at least seven out of ten people have been vaccinated against the coronavirus https://t.co/4jY5gmyg7S	teleSUR TV
142275134456215 9619	The Russian Direct Investment Fund and the Argentine pharmaceutical company Richmond Laboratories reported that the Russian vaccine	teleSUR TV

	#SputnikV will be available this week 🇷🇺 https://t.co/KI5HDKqGqV	
1422708359640256512	#Ecuador 🇪🇨 expects to receive first disbursement of the Chinese #Cansino vaccine against coronavirus, which only requires a single dose to achieve immunization https://t.co/YDzwZJ9IIR	teleSUR TV
1422686465419583493	The Ministry of Health of #Argentina🇦🇷 reported that 55% of its population has already received at least one dose of the vaccine against #COVID19 https://t.co/wyTGOAtwdM	teleSUR TV
1422641166923689990	The Ministry of Health of #Argentina🇦🇷 reported that 55% of its population has already received at least one dose of the vaccine against #COVID19 https://t.co/wyTGOAL75k	teleSUR TV
1422590894230880258	The Ministry of Health of #Argentina🇦🇷 reported that 55% of its population has already received at least one dose of the vaccine against #COVID19 https://t.co/aTu3lu5eio	teleSUR TV
1422482090122154007	#Ecuador 🇪🇨 expects to receive first disbursement of the Chinese #Cansino vaccine against coronavirus, which only requires a single dose to achieve immunization https://t.co/YDzwZJ9IIR	teleSUR TV
1422468780957990915	The new government of #Peru 🇵🇪 is developing a campaign to promote vaccination of the population against #COVID-19, which includes vaccination plans in different regions of the country. https://t.co/OXLbs6GFRx	teleSUR TV
1422423482403536897	The new government of #Peru 🇵🇪 is developing a campaign to promote vaccination 📌 of the population against #COVID-19 🌐, which includes vaccination plans in different regions of the country. https://t.co/OXLbs6p4zZ	teleSUR TV
1422391774371274753	The government of the president of #Peru🇵🇪, @PedroCastilloTe, signed a contract this Sunday	teleSUR TV

	to acquire ten million doses of the #Sinopharm anticovid vaccine, developed in #ChinaCN https://t.co/htmMAdIczB	
142237822390044 2625	The new government of #Peru PE is developing a campaign to promote vaccination 📌 of the population against #COVID-19 🌐, which includes vaccination plans in different regions of the country. https://t.co/n6qrQNwQUC	teleSUR TV
142237698997401 6001	RT @EnClavePolitik : The government of @LassoGuillermo in #Ecuador is fulfilling its obligation to carry out #PlanVacunacion9100 to guarantee the right to health, generating appeal to popular opinion Check out the analysis by @mauroandinoe @OrlandoPerezEC in @teleSURtv https://t.co/3rs1UcsDHn	teleSUR TV
142234899160636 6208	Cubacu health authorities announced that at least 1,355,000 people have received three doses of the #Covid19 vaccine in #Havana https://t.co/4mbgantRaP	teleSUR TV
142231379302404 9153	Cubacu health authorities announced that at least 1,355,000 people have received three doses of the #Covid19 vaccine in #Havana https://t.co/kt1LVQlsw5	teleSUR TV
142228499337256 1409	RT @Insausti_tI SUR: The vaccination process continues under the government of @PedroCastilloPL, the goal is to have 70% of the population vaccinated by the end of the year. @temasteleSUR @teleSURtv https://t.co/l1mQ7pZLek	teleSUR TV
142228487879679 5908	RT @AndreteleSUR: #Brazil The Covid-19 Commission at the Senate resumed its work. According to vice president Randolfe Rodrigues, its new focus will be a corruption investigation. According to him, there was prevarication by Bolsonaro, who knew of corruption in the	teleSUR TV

	purchase of vaccines and did not act. https://t.co/jKzFKANJQu	
1422240785248919553	The government of the president of #PeruPE, @PedroCastilloTe, signed a contract this Sunday to acquire ten million doses of the #Sinopharm anticovid vaccine, developed in #ChinaCN https://t.co/htmMAdZNr9	teleSUR TV
1422205605880733699	The government of the president of #PeruPE, @PedroCastilloTe, signed a contract this Sunday to acquire ten million doses of the #Sinopharm anticovid vaccine, developed in #ChinaCN https://t.co/6S8sFAz2Az	teleSUR TV
1422009572928200715	#ONVIDEO A study by the University of #HaitiHT revealed that only 20% of the population is willing to be immunized against #COVID19 Recently, the government started its vaccination campaign. Why are Haitians skeptical of these vaccines? https://t.co/0uc8U4ch6k	teleSUR TV
1421951623211806727	#Cubacu reported that 2,620,050 individuals have already received the complete three doses of the #antiCovid19 vaccination, one of the vaccines having been made in Cuba. This represents 23.4% of the population 🇨🇺 https://t.co/rqwAlplgZN	teleSUR TV
1421906446271328256	#Cubacu reported that 2,620,050 individuals have already received the complete three doses of the #antiCovid19 vaccination, one of the vaccines having been made in Cuba. This represents 23.4% of the population 🇨🇺 https://t.co/rqwAlpqG8f	teleSUR TV
1421698958368206848	The Minister of Health of #Argentina AR #CarlaVizzotti confirmed this Saturday that next week a new delivery of vaccines will arrive for the second round of the #SputnikV vaccine as part of the immunization plan https://t.co/ZadwxWAHT	teleSUR TV
1421653659801329667	The Minister of Health of #Argentina AR #CarlaVizzotti confirmed this Saturday that next	teleSUR TV

	<p>week a new delivery of vaccines will arrive for the second round of the #SputnikV vaccine as part of the immunization plan</p> <p>https://t.co/ZadwxWj71E</p>	
1421618602264961025	<p>The Minister of Health of #Argentina AR #CarlaVizzotti confirmed this Saturday that next week a new delivery of vaccines will arrive for the second round of the #SputnikV vaccine as part of the immunization plan</p> <p>https://t.co/fPzsEROGaz</p>	teleSUR TV
1421444057516191748	<p>RT @uypress: Udelar requests resources to create an institute that researches and produces vaccines https://t.co/Lh7TIk7i6X</p> <p>https://t.co/DktlmzhkNe</p>	teleSUR TV
1421231629129986060	<p>@msalnacion of #Argentina AR specified that 75.2 percent of the population 18 years-old and up have begun vaccination, based on the roll out of the national plan against Covid-19 https://t.co/tqCFV0LSIj</p>	teleSUR TV
1421211496424431617	<p>The largest immunization plan in the history of #BuenosAires in the wake of the #Covid19 epidemic began its free vaccination phase for those over 18 years of age 🇦🇷</p> <p>https://t.co/5yXIZII71r</p>	teleSUR TV
1421195604739375105	<p>RT @GildateleSUR : July is the month with the highest number of deaths from COVID 19 in Honduras. Healthcare centers collapsed, there is no oxygen in many health wards and vaccines still have not reached most of the population. @SintesisTeleSUR https://t.co/12d05k6EU7</p>	teleSUR TV
1421151251522260997	<p>The largest immunization plan in the history of #BuenosAires in the wake of the #Covid19 epidemic began its free vaccination phase for those over 18 years of age 🇦🇷</p> <p>https://t.co/5yXIZIClq1</p>	teleSUR TV
1421141032352161794	<p>@msalnacion of #Argentina AR specified that 75.2 percent of the population 18 years-old and up have begun vaccination, based on the roll out of</p>	teleSUR TV

	the national plan against Covid-19 nacional contra la Covid-19 https://t.co/tqCFV0ugWJ	
142109784538242 2529	RT @EnMediatica : #ChileCL Vaccine Committee requests third dose prioritizing older adults, health personnel and transplant recipients @denisseteleSUR for @teleSURtv https://t.co/PshUpd24lz	teleSUR TV
142109781954547 3025	RT @EnMediatica : #EcuadorEC Long lines for vaccine in some centers in #Guayaquil @denisseteleSUR for @teleSURtv https://t.co/VBjg54aeg4	teleSUR TV
142105043521802 2407	@msalnacion of #Argentina AR specified that 75.2 percent of the population 18 years-old and up have begun vaccination, based on the roll out of the national plan against Covid-19 https://t.co/tqCFV0ugWJ	teleSUR TV
142100513653354 4962	@msalnacion of #Argentina AR specified that 75.2 percent of the population 18 years-old and up have begun vaccination, based on the roll out of the national plan against Covid-19 https://t.co/tqCFV0LSlj	teleSUR TV
142095611263177 5237	@msalnacion of #Argentina AR specified that 75.2 percent of the population 18 years-old and up have begun vaccination, based on the roll out of the national plan against Covid-19 https://t.co/tqCFV0LSlj	teleSUR TV
142084608850903 8592	Director of @Tu_IMSS @zoerobledo revealed that #MexicoMX has applied more than 1.4 million #anticovid vaccines in a single day 📱 https://t.co/NovwE6bqHN	teleSUR TV
142082947945116 8770	.@unicefBrazil BR reported that the South American giant will receive almost 2 million vaccines from #Covax, produced by the University of #Oxford and the pharmaceutical company #AstraZeneca 📱 https://t.co/lchblpyruj	teleSUR TV
142080078238814 6179	Director of @Tu_IMSS @zoerobledo revealed that #MexicoMX has applied more than 1.4 million #anticovid vaccines in a single day 📱 https://t.co/NovwE5TPQf	teleSUR TV

142079500196186 1121	On July 29 #Cuba cu begins immunization against the virus that causes #Covid_19 with vaccination of pregnant women, mothers who are breastfeeding and patients with transplanted organs with #Abdala 📺 https://t.co/jBukiUpOv	teleSUR TV
142074981343221 7611	On July 29 #Cuba cu begins immunization against #Covid_19 with vaccination of pregnant women, mothers who are breastfeeding and patients with transplanted organs with #Abdala 📺 https://t.co/jBukiJc0G3	teleSUR TV
142074291601678 7459	RT @EnClavePolitik : #Cuba begins vaccination of pregnant woman and breastfeeding mothers with 📺 #Abdala to combat #COVID19 Check out 👉 the complete interview with #CarlosPantoja on @teleSURtv https://t.co/euUfVo0pdM	teleSUR TV
142073904402406 6063	.@unicefBrazil BR reported that the South American giant will receive almost 2 million vaccines from #Covax, produced by the University of #Oxford and the pharmaceutical company #AstraZeneca 📺 https://t.co/lchblpgQ5J	teleSUR TV
142071321341541 1717	The Ministry of Health of #Uruguay uy announced the approval of a third dose of the #Pfizer vaccine 📺 for people who have received the second dose of the Chinese #Coronavac cn to combat the #COVID-19 pandemic 📺. https://t.co/YvFaiw2ZCX	teleSUR TV
142062261628556 4932	The Ministry of Health of #Uruguay uy announced the approval of a third dose of the #Pfizer vaccine 📺 for people who have received the second dose of the Chinese #Coronavac cn to combat the #COVID-19 pandemic 📺 https://t.co/YvFaiVLoLp	teleSUR TV
142057733925203 9680	EThe Ministry of Health of #Uruguay uy announced the approval of a third dose of the #Pfizer vaccine 📺 for people who have received the second dose of the Chinese #Coronavac cn to combat the #COVID-19 pandemic 📺 https://t.co/Pml9X6rLoI	teleSUR TV

142054395188760 9858	RT @LemusteleSUR: Yanomami leaders denounced that at least 106 doses of the Coronavac vaccine destined for indigenous people were sold to garimpeiros (illegal miners) in exchange for gold by officials of the Special Secretary for Indigenous Health (Sesai), linked to the Ministry of Health. Brazil 2021	teleSUR TV
142048193411168 6664	RT @AndreteleSUR: Vaccination against Covid-19 resumed today in the city of Rio de Janeiro, but the Municipal Secretariat of Health warned that it may be suspended on Saturday if the Ministry of Health does not send more doses. More than 30% of the adult population in Rio received the 2nd dose. https://t.co/SmCCCDfnte	teleSUR TV
142045929009614 0292	It is reported that #IranIR and #Cuba will begin to produce a joint #vaccine against #Covid_19 through both the Finlay Vaccine Institute and the Pasteur Institute 📌📱 https://t.co/XEXToz7QTK	teleSUR TV
142043683578068 1731	#LIVE Constitutional President of Peru, Pedro Castillo, proposes return to face-to-face education in the first quarter of next year, therefore all teachers and educational personnel will be vaccinated. → https://t.co/tqMKHf10b4 https://t.co/puOUx1y8pV	teleSUR TV
142043579469159 6288	#LIVE Constitutional President of Peru, Pedro Castillo: first level establishments will vaccinate during extended hours, while primary care for non-covid patients will be extended up to 12 hours https://t.co/jlPWqiDQM6	teleSUR TV
142043549700086 9893	#LIVE Constitutional President of Peru, Pedro Castillo: aims to reach the end of the year with 70% of the population vaccinated against Covid-19 and invites governors to work on plans to combat the pandemic → https://t.co/tqMKHf10b4 https://t.co/wo02QfliOa	teleSUR TV
142041605817593 8568	Recommendations to prevent hepatitis: avoid tattooing your eyebrows or injecting Botox at an	teleSUR TV

	unreliable place that does not adhere to the most basic hygiene rules. Get all of your virus vaccines and continually use protection when having sexual relations https://t.co/X4jctMDHHC	
1420413991894065152	It is reported that #IranIR and #Cuba will begin to produce a joint #vaccine against #Covid_19 through both the Finlay Vaccine Institute and the Pasteur Institute 📌📱 https://t.co/XEXToyQg2c	teleSUR TV
1417553692736299017	RT @rolandoteleSUR: Solidarity Movement with #Cuba reaffirms its commitment in the #USA and announces a campaign to send 6 million vaccine syringes to the Island. Around two million have already arrived in Cuban territory. https://t.co/BTIOHCWlxw	teleSUR Venezuela
1417502081557090311	RT @rolandoteleSUR: "The efficacy of 2 doses of the #Cuba #Soberana02 vaccine and the booster dose, #SoberanaPlus, in the third phase of the Cuban clinical trial was 91.2%, with 100% operability in severe cases and deaths"" according to #Iran Pasteur Institute https://t.co/bKXGoqc90Z	teleSUR Venezuela
1416045882496126991	RT @MariateleSUR: A new shipment of Sputnik V vaccines arrive to #Nicaragua from the Russian Federation, to continue with the voluntary vaccination process in Nicaragua. @teleSURtv https://t.co/rUIEg9KHWO	teleSUR Venezuela
1414620446092402689	RT @rolandoteleSUR: @lopezobrador_: #Mexico would help with medicines, vaccines, and food. If you wanted to help, the first thing would be to suspend the sanction against #Cuba. It would be a truly humanitarian gesture; a country cannot isolate an entire population for political reasons. It is the opposite of #HumanRights https://t.co/WrMQkVR0Qy	teleSUR Venezuela
1413537644387123207	RT @rolandoteleSUR: #Abdala, the first vaccine developed in Latin America, with 92.28% efficacy, is approved for emergency use by the #Cuba regulatory authority. @cubacecmed ensures that the vaccine created by @CIGBCuba meets	teleSUR Venezuela

	international standards in preclinical and clinical studies. https://t.co/JkgN6CXvRF	
1413290391235973122	Scientific authorities report that two doses of #Cuba Soberana 02 vaccines against #COVID19 + one Soberana Plus reaches 91.2% efficacy, after the third phase of clinical studies. https://t.co/CJjHBYIKDB	teleSUR Venezuela
1412420941896896517	After 3 months of arbitration, review, and edition the prestigious journal @ACSCentSci of the American Chemical Society, publishes an article on the design, development and preclinical evaluation of the #Cuba #Soberana02 vaccine against #Covid_19 https://t.co/gkKeTsEjGu	teleSUR Venezuela
1411347416436117507	RT @rolandoteleSUR : #Iran is the first country to authorize Cuban vaccine against #COVID19 #Soberana02 for emergency use. Iranian authorities made the decision after concluding the last phase of clinical trials of the Cuban antigen in-country with the Pasteur Institute of #Tehran. https://t.co/RNrczzBpYp	teleSUR Venezuela
1411347270583345152	RT @rolandoteleSUR: #HuracanElsa weakened slightly overnight and is now advancing at a rate of 46 km/h through the #Caribbean, with maximum sustained winds of 130 km/h, with higher gusts. Potential danger for #Cuba in the midst of a pandemic and anticovid vaccination campaign. https://t.co/bMK2m6723P	teleSUR Venezuela
1408220865762840587	RT @DAVIDcu : @rolandoteleSUR @delcyrodriguezv They may block the oil from going to Cuba, but doctors and vaccines will continue to arrive in Venezuela ... !!!	teleSUR Venezuela
1408220240299896835	RT @rolandoteleSUR: #BreakingNews: #Venezuela receives first shipment of the Latin American and Caribbean #Abdala vaccine from #Cuba. @delcyrodriguezv: There is no sanction that can withstand the will of the people. With	teleSUR Venezuela

	<p>sentiment from #Carabobo, the people of #Venezuela thank the people of #Cuba. https://t.co/JjXZj0bh4y</p> <p>https://t.co/JjXZj0bh4y</p>	
1407718016784158722	<p>RT @rolandoteleSUR : #Rusia in #UNGA: #Cuba has developed its own vaccines against the coronavirus to help other countries. Their scientists have managed to achieve the necessary level of efficacy in one of their vaccines. Unfortunately we see no visible change in Biden's foreign policy with Cuba. https://t.co/1FYTBdXljV</p>	teleSUR Venezuela
1407354002929487887	<p>RT @rolandoteleSUR : See announcement, #Abdala vaccine meets the @WHO requirement to be declared a #Covid vaccine, with 92.28% efficacy. https://t.co/UPRLF4QUxP</p>	teleSUR Venezuela
1407329325289029636	<p>RT @rolandoteleSUR : #Abdala is one of the 5 vaccine candidates created and developed by #Cuba against #COVID19. Requiring three-doses, between 0, 14 and 28 days, Abdala is being applied in the Cuban capital today as part of a health intervention with at-risk populations. https://t.co/UCb7GGyZfe</p>	teleSUR Venezuela
1407329307735830532	<p>RT @rolandoteleSUR : #BREAKINGNEWS #Cuba scientific authorities assure that #Abdala #COVID19 vaccine candidate efficacy with three doses is 92.28%. https://t.co/XTTFOtdxcl</p>	teleSUR Venezuela
1407048625545482247	<p>RT @rolandoteleSUR: In the midst of the worst outbreak of the pandemic in #Cuba, the island's capital has reduced #COVID19 cases by half during the last month. It's leaving behind case peaks of about 800 cases per day during the first month of a massive health intervention in #Havana with its own vaccine candidates.</p>	teleSUR Venezuela

	https://t.co/vRI0soL9Vz	
140643374362839 0401	RT @rolandoteleSUR : With 2 doses, #Soberana02 from #Cuba reaches 62% efficacy, higher than the @WHO requirement of 50% for an anti #COVID19 vaccine candidate to become a vaccine. In 2 weeks, an efficacy study with 3 doses is completed, while waiting for authorization for emergency use https://t.co/Mh1XRBeiqC	teleSUR Venezuela
140478516564641 3830	@rolandoteleSUR: More and more vaccinated in #Cuba, but "many failures in compliance with protocols", according to the Minister of Health, the number of #COVID19 cases on the island continue to grow. https://t.co/zE7n9ChF25	teleSUR Venezuela
140454481069079 3474	RT @rolandoteleSUR : Half a million Cubans have already had three doses of the #COVID-19 vaccine. #Cuba is above the world average with one dose. https://t.co/Xs9kdvtVkF	teleSUR Venezuela
140454479035670 5286	RT @rolandoteleSUR: Application of the first dose of the anti #COVID-19 #Soberana02 vaccine candidate begins in the pediatric population. The first adolescent vaccinated on the Island participates in a clinical trial #SoberanaPediatria, along with 350 other infants between three and 18 years of age. https://t.co/8tw3RvXtnT	teleSUR Venezuela
140454477601228 3913	The anti #COVID19 # Soberana02 will obtain "permission for its emergency use at the beginning of next week" in #Iran. Named #Pasteur in Iran, the Cuban vaccine candidate is in its third and final phase of clinical trials in both countries. https://t.co/AcNOo3u3bl	teleSUR Venezuela
140423188860525 7729	RT @rolandoteleSUR : In the world of the vaccinated, Queen Elizabeth accepts invitation to the #G7. https://t.co/KfKQVuZ5Ti	teleSUR Venezuela

140188444925251 1748	RT @rolandoteleSUR: #Cuba prepares conditions for clinical trials of its #Soberana02 and #Abdala vaccine candidates against #COVID19 in pediatric ages, adolescents and children between three and 18 years of age. https://t.co/THbnre2wB5	teleSUR Venezuela
140012790705855 2840	RT @rolandoteleSUR: Solidarity with #Cuba #Argentina sends 380,000 syringes and 359,000 needles to the Island for their vaccination campaign against #Covid19, amid the resurgence of #USA sanctions. https://t.co/QDV6z7dql3	teleSUR Venezuela
139935011498926 4901	RT @rolandoteleSUR: #Argentina and #Cuba sign a "confidentiality agreement", after the Minister of Health @carlavizzotti and advisor to @alferdez learned about progress in the development of the anti #COVID19 #Abdala and #Soberana02 candidates, and ratified their will to work together to advance Cuban vaccines. https://t.co/A4E5BQjgbK	teleSUR Venezuela
139804474048290 8163	RT @rolandoteleSUR: The number of deaths in six European countries after vaccination with the #Pfizer vaccine is higher than that registered after vaccination with the #AstraZeneca vaccine, according to AstraZeneca's report. https://t.co/7gcnQFB3jT	teleSUR Venezuela
139804468531940 9665	RT @rolandoteleSUR: See how the Cuban Digital Vaccination Passport #COVID19 will work. Open software developer @allan_pierra explains the three information solutions used. #CubaPorLaVida https://t.co/5jwIXGEsWV	teleSUR Venezuela
139804463528557 7734	RT @rolandoteleSUR: Cuban digital #COVID-19 vaccination passport, in its testing phase, uses a QR code with encrypted data of each person and a signature recognized by the @WHO that can be read anywhere in the world. #Soberana #Abdala @universidad_uci https://t.co/OeC2jrwwFw https://t.co/TDs15sgG0e	teleSUR Venezuela
139682824482606 6946	RT @rolandoteleSUR: In the face of "scandalous inequality" that "perpetuates the pandemic" with more than 75% of the #COVID19 vaccines administered in only ten countries, the @WHO	teleSUR Venezuela

	calls for a massive push to vaccinate at least 10% of the population of each country before September and at least 30% in 2021. https://t.co/eS0iUhFqWQ	
139572967622463 8976	RT @rolandoteleSUR: More than 1,115,000 Cubans have received at least one dose of the #COVID19 vaccine candidates created by #Cuba. The Island aspires to immunize its entire population with its own vaccines in 2021. @BioCubaFarma has 6 production lines for 5 vaccines under development. https://t.co/kK5rMD1k0x	teleSUR Venezuela
139540170702732 0835	RT @rolandoteleSUR: According to @WHO approved vaccines are effective against all variants of #COVID19. However @hans_kluge Regional Director @WHO_Europe warns that vaccines can be a light at the end of the tunnel, but that light cannot blind us". "So the pandemic is not over yet" https://t.co/EQp58ipkWL	teleSUR Venezuela
139499342885808 1282	RT @rolandoteleSUR: 40 countries have asked #Cuba for its #COVID19 vaccine candidates. Out of 5 in development, #Soberana02 #SoberanaPlus #Abdala are all in their final phases of clinical studies. The Island awaits permission for its emergency use between the end of May and the beginning of July. Via: @EdMartBCF https://t.co/vk6Dhmu8JD	teleSUR Venezuela
139406384848374 1696	RT @rolandoteleSUR: @ACSCentSci magazine of the American Chemical Society (ACS) publishes analysis on #Cuba #Soberana01 #Soberana02 vaccine candidates against #Covid_19 @BalbinYury @FabrizioChiodo @BelindaCubaCim @ClimentYanet https://t.co/B85iDzwO1h	teleSUR Venezuela
139246055516481 9458	RT @rolandoteleSUR: #Cuba makes headway in #SanitaryIntervention with its #COVID19 vaccine candidate #Abdala for health risk personnel,	teleSUR Venezuela

	including medical students and the population of the special municipality #IsladelaJuventud and #Havana. Around 900 thousand doses have already been distributed throughout the Island. https://t.co/7sAjgJFPPp	
139193108180542 2595	RT @rolandoteleSUR: Massive #SanitaryIntervention kicks off with risk groups and territories with 100% Cuban #COVID19 vaccine candidates in several provinces of #Cuba. #CiegodeAvila starts with #Abdala at 32 vaccination points in 20 polyclinics, hospitals and the University of Medical Sciences https://t.co/jpbOV9UXzs	teleSUR Venezuela
139175474164713 4723	RT @rolandoteleSUR: #Cuba is getting ready to roll out a plan this week that will allow 70% of the island's population to be immunized in August. Doses of vaccine candidates for massive #SanitaryIntervention in risk groups and territories are reaching different provinces. https://t.co/ND0Lmu1u1K	teleSUR Venezuela
139085716131674 9316	RT @rolandoteleSUR: @MINSAPCuba authorities confirmed that after rigorous consultation with experts, a sanitary intervention with #Cuba #COVID19 vaccine candidates will begin during the first two weeks of May in 7 municipalities of #Havana https://t.co/iHgKgbwi3E	teleSUR Venezuela
139037871255059 2519	RT @rolandoteleSUR: Business is #business: @Pfizer says NO to a proposal to suspend patents for #COVID19 vaccines. Its president @AlbertBourla told AFP that he rejects the idea initially suggested by #India #SouthAfrica and blocked by #USA. But now @JoeBiden and #EuropeanUnion supports it. https://t.co/zGcKp05rAN	teleSUR Venezuela
139030378307948 5449	RT @rolandoteleSUR: "It is a discussion we are open to," said #Germany Foreign Minister Heiko Maas regarding a #USA backed proposal to forego patents for #COVID-19 vaccines. #COVIDSecondWave https://t.co/UdXrcqfATZ	teleSUR Venezuela

1390295910853267456	RT @EnMediatica: 🙄 #Ecuadorec scandals over vaccination plan continue while @LeninMoreno is concerned about participating in forums in #USA @denisseteleSUR for @teleSURtv https://t.co/cAY4iwBUst	teleSUR Venezuela
1390295370928902144	RT @JorgeGestoso: The issue of the temporary suspension of patents for the vaccine against covid-19, among others, is being addressed at the European Union Summit in Portugal in order to be able to mass produce vaccines and fight the pandemic more efficiently https://t.co/s324Rr2P6z	teleSUR Venezuela
1389666650983698436	RT @rolandoteleSUR: Ambassador of #Russia to #Venezuela @EmbSergio, first volunteer of the clinical trials of the second Russian vaccine against #COVID-19 in #Caracas: "I want to show the level of great trust between both nations. @delcyrodriguezv: #EpiVacCorona is close to 100% effective. https://t.co/x9E0PPVLIK	teleSUR Venezuela
1389574432201531394	RT @rolandoteleSUR: One of the five vaccine candidates in clinical study for nasal administration is from #Cuba, created and developed by @CIGBCuba. According to Dr. Gerardo Guillen Nieto, #Mambisa uses immunoenhancing platforms already developed on the Island. 📍 https://t.co/LAGUlvtc2q	teleSUR Venezuela
1389572533557604363	RT @rolandoteleSUR: Among the 5 vaccine candidates that could make #Cuba the developer of the first #Covid vaccine created and developed in #AmericaLatina and #Caribbean is the #SoberanaPlus, made to produce high levels of neutralizing antibodies in convalescents. @DagmarGarciaCub @FinlayInstituto explains 📍 https://t.co/i4SrgLGqQC	teleSUR Venezuela
1389566633623138309	RT @rolandoteleSUR: @DagmarGarciaCub, Director of Research at @FinlayInstituto, ensures that #Soberana vaccine candidates from #Cuba are safe and immunogenic. Innovative approach for convalescents. #COVID19 generates two concrete intentions in the first world to carry out clinical trials.	teleSUR Venezuela

	https://t.co/e229DieQYn	
138956642035951 6163	RT @rolandoteleSUR: According to clinical studies by @FinlayInstituto of #Cuba, its vaccine candidate #Soberana02 can be used in subjects from 19 to 80 years of age without concerns in terms of safety and positive immune response. Ongoing phase 3 clinical trial evaluates variable efficiency. https://t.co/4GzhMrtPcw	teleSUR Venezuela
138782957965460 2754	RT @rolandoteleSUR: Magazine @nature: Can #Cuba beat COVID with its homegrown vaccines? If all goes according to plan, Cuba could be the first Latin American country to develop and manufacture its own vaccine against #COVID19. @mapache_rm https://t.co/ESH4zbXBBU	teleSUR Venezuela
138775139305483 8788	RT @rolandoteleSUR: "There is enough vaccine production capacity in the world today to vaccinate 60% of the population by the end of this year," according to economist @ Jayati1609. But there is an "artificial shortage" of vaccines due to intellectual property regulations. https://t.co/lD6dRtujjp	teleSUR Venezuela
138751787004166 9636	RT @rolandoteleSUR: @CMarinCIPi: In #100DaysWithBiden, monopolization of vaccines and other restrictions on export of supplies in #USA influenced enormous inequity in access to vaccines in #LatinAmerica and #Caribbean. @POTUS has prioritized a geopolitical approach over a cooperative approach. https://t.co/FfwU8mqgRq	teleSUR Venezuela
138742765048708 3013	RT @rolandoteleSUR: Mathematical models alert unfavorable #COVID19 forecast in #Cuba. Daily cases could remain high and even rise in the next few days. Meanwhile, health authorities prepare vaccination through a massive intervention trial in #Havana. https://t.co/RzBUDVqzf2	teleSUR Venezuela
138739116222751 5396	RT @rolandoteleSUR: @DirOPSPAHO: "#LatinAmerica is the region that currently has the greatest need for vaccines. It is the region that	teleSUR Venezuela

	should be prioritized." According to @opsoms the current world system is programmed for inequity and rich countries are favored over the poorest. #COVID19 https://t.co/azVtQH1rZd	
138709474335258 2148	RT @rolandoteleSUR: Pan-Corona: a project between #China and #Cuba to anticipate the next pandemic. Chinese and Cuban scientists are fighting for a generic vaccine that protects against different types of coronavirus and possible emerging strains. https://t.co/i7DwHnhvKc	teleSUR Venezuela
138709471941988 3525	RT @rolandoteleSUR: #USA health authorities ensure that fully vaccinated people in the country can go outdoors without masks, except in places with many people. #COVID19 https://t.co/7oXZ5hNJAg	teleSUR Venezuela
138569462329366 1187	RT @rolandoteleSUR: @BuenaFe_musica premieres the official video of the song "La Fuerza de un País", in homage to #Cuba's feat of creating and developing five anti-COVID vaccine candidates #BuenaFe #LaFuerzaDeUnPais https://t.co/QUj0AAj5uu https://t.co/vSbediJeTL	teleSUR Venezuela
138563417844900 2500	RT @rolandoteleSUR: Intervention study with anti #COVID19 #Soberana 02 and #Abdala vaccines in all the municipalities of #Havana will include subjects aged 19 years and older, starting with a segment of 60 years and over. Thus #Cuba will begin mass vaccination of 1,700,000 people. https://t.co/4jZbxnrk8e	teleSUR Venezuela
138563414327137 4853	RT @rolandoteleSUR: #Cuba registers the highest rate of infections in the history of the pandemic on the Island (1,241 cases) when it is about to start mass vaccination in 7 municipalities of #Havana, with the #Covid19 #Soberana02 and #Abdala vaccines. 1 million 700 thousand people will be immunized in the capital cu https://t.co/YSBULGdJ7A	teleSUR Venezuela
138485064909610 5987	RT @teleSURAgenda_A: WORLD  DO YOU CONSIDER THAT THE IBERO-AMERICAN PRESIDENTIAL SUMMIT WILL REACH AN AGREEMENT TO PROMOTE A GLOBAL	teleSUR Venezuela

	COLLABORATION IN FAVOR OF MASSIVE VACCINATION AND WITHOUT RESTRICTIONS OR HIGH COSTS FOR THE COUNTRIES MOST IN NEED?	
138466853735732 4288	RT @rolandoteleSUR: in June #Argentina will be the first country in #AmericaLatina to produce the Russian vaccine against #COVID19 #SputnikV. Richmond Laboratories will start with one million doses per month and then reach 5 million doses per month. https://t.co/OtP3v3CHol	teleSUR Venezuela
138450635832686 1826	RT @rolandoteleSUR: #Cuba finalizes details for the start of mass vaccination against #COVID19. Approximately 11,000 family medical offices on the island become clinical sites for vaccination. On # April24 #Havana must be ready to immunize one million 700 thousand people. https://t.co/Cw0jGzUo6k	teleSUR Venezuela
138250544253076 6852	RT @ de_la9torre: It is not a "miracle" , it is more than 30 years of scientific work dedicated to developing biotechnology. About to achieve the most awaited by the Cuban people: #Soberana02 and #Abdala, very Cuban anti #COVID19 vaccines @MailyYacobet @CamilaC77654353 https://t.co/7hJLQRUJxa	teleSUR Venezuela
138208793393567 7443	RT @rolandoteleSUR: #USA: Centers for Disease Control and Prevention and the Food and Drug Administration recommend discontinuing use of Johnson & Johnson #COVID19 vaccine after "six rare cases of a severe type" of blood clots. https://t.co/A0u2PESflA	teleSUR Venezuela
138208784204264 2435	RT @rolandoteleSUR: #Cuba, one step away from achieving the first #COVID19 vaccines conceived and produced in #LatinAmerica: #Soberana02 and #Abdala. According to @opsoms, it's a "privilege, but it is not a miracle, there is remarkable scientific development in Cuba" @opsoms. https://t.co/dsJTo8Kudj	teleSUR Venezuela
137919090465796 0965	RT @rolandoteleSUR: Member States of the Caribbean Community #CARICOM such as	teleSUR Venezuela

	#Jamaica and #Suriname show interest in #Cuba vaccines against #COVID-19, the Latin America and the Caribbean country with two vaccine candidates on the list of 24 that are being developed globally https://t.co/2PYW7L8qIK	
1377050909889417217	RT @FreddyteleSUR: In such a shortage, municipalities have more than enough vaccines: out of 500,000 distributed, 250,000 were for the first dose, but only 168,517 (67.41%) were applied, there remain 81,483: says María Rene Castro, Vice Minister of Epidemiological Surveillance. @teleSURtv https://t.co/7ENZA87oHh	teleSUR Venezuela
1376969915173892109	RT @pro_teleSUR:  Vice Prime Minister of #RussiarU #YuriBorisov celebrated cooperation with #VenezuelaVE on his visit to the country this Tuesday for a high-level meeting. <ul style="list-style-type: none"> <input checked="" type="checkbox"/> He condemned sanctions <input checked="" type="checkbox"/> He highlighted cooperation in the fight against the #pandemic and guaranteed the supply of Russian vaccines. @teleSURtv https://t.co/FT1oalEcIE	teleSUR Venezuela
1376581736797237255	RT @AndreteleSUR: #Brazil has 312 thousand deaths from Covid-19. The Minister of Health left and today the change of minister was announced. There are no national measures to combat Covid-19 and its diplomacy is incompetent in negotiating vaccines with other countries. Will changing ministers solve it?	teleSUR Venezuela
1374405746121527298	RT @HishamteleSUR: Iran announced that at the end of June it will begin mass production of its vaccine against COVID19 COVIRAN Barekat @teleSURtv @temasteleSUR https://t.co/FYhL3kCqBU	teleSUR Venezuela
1372600581341245443	RT @AndreteleSUR: The #Brazil Central Union Forum called for a "working class lockdown" next Wednesday (24). For 24 hours workers will stop activities in defense of life, vaccines, emergency	teleSUR Venezuela

	aid, employment and against privatization. https://t.co/BiuKTPfyU8	
137185611138984 3460	RT @Oskaretelesur: 15 days without reporting new cases of Ebola in Butembo, 1500 people have been vaccinated in affected communities https://t.co/DbJ92TWLVd	teleSUR Venezuela
137179327720942 7971	RT @IramsyteleSUR: #China Update on #Covid_19 pandemic -Today 13 cases were reported, all foreign -No new deaths were registered -China will ease border restrictions to allow entry of foreigners vaccinated with a Chinese-made vaccine #COVID19 @teleSURtv https://t.co/CSgFQXiMB3	teleSUR Venezuela
137034399791543 0916	RT @AndreteleSUR: For the second time, the city of Rio de Janeiro suspended the advancement of the vaccination roll out due to lack of doses. The vaccine would have been applied starting today to citizens over 75 years old. Yesterday, for the fifth time in a row, the Minister of Health announced a cut in the vaccine distribution https://t.co/1FIBQ3RQCt	teleSUR Venezuela
136890052412532 7362	RT @LemusteleSUR: # 8M BR Eastern zone of São Paulo: women from @MAB_Brasil mobilize against the Penha, demand the urgent return of emergency aid due to pandemic and vaccine against covid19. https://t.co/egNke9nh8t	teleSUR Venezuela
136787036327582 1059	RT @OsvaldoteleSUR: #Paraguay: Civic organizations call for a mobilization, today at 6:00 p.m., due to the shortage of medications from the health services, the lack of vaccines and the mismanagement of the pandemic by the Government under Mario Abdo Benítez. The Police issued an alert before the call https://t.co/nOeEAXES46	teleSUR Venezuela
136751247251776 3078	RT @ReiGomezR : #Cuba cu #Soberana02, first Latin American vaccine to advance to Phase III clinical trials. #CubaViva #CubaSavesLives https://t.co/EZI3Tk3FT5	teleSUR Venezuela

136708076557037 5684	<p>RT @EnMediatica : 👁️👁️#WhatYouWontSeeInTheMedia with @OrlandoPerezEC</p> <p>The vaccine business, the monopolization and inequitable distribution of vaccines has begun. In #Peru #Confiep confirms that it will not acquire vaccines for now https://t.co/46lYUT1l0s</p>	teleSUR Venezuela
136671386680624 7427	<p>RT @LeonelTeleSUR : First shipment of vaccines arrives from China. President @NicolasMaduro states there are half a million doses, to begin mass vaccination https://t.co/s3Ugy0Gtyh</p>	teleSUR Venezuela
136643870166503 8337	<p>RT @EduardomteleSUR : pres. of Mexico @lopezobrador_ confirms virtual meeting with US counterpart @JoeBiden. They will discuss bilateral relations issues “but the vaccine issue is very important to us.” The meeting will take place at 3:30 p.m. local time https://t.co/m7nti4SI2v</p>	teleSUR Venezuela
136640256383117 3127	<p>RT @FreddyteleSUR : Dozens of persons with existing conditions participate in voluntary, free Sinopharm vaccination beginning on Monday in La Paz. @teleSURtv https://t.co/Q4vYUrgpHg</p>	teleSUR Venezuela
136534077807206 8104	<p>RT @karicartagena_ : #Ecuador Minister of Health resigns due to irregularities in #COVID19 vaccine distribution. Is one of the first alleged politicians to be vaccinated with their families. Government does not have clear vaccination plan 🗒️ #EcuadorInCrisis https://t.co/BI2iQcoA3q</p>	teleSUR Venezuela
136534075024286 1058	<p>RT @JuanCteleSUR : Two new flights from Argentine airlines depart tonight to Moscow to bring a large production of Sputnik V vaccines that are set to arrive on Sunday as part of the COVID-19 vaccination plan. @ConexionlSUR https://t.co/aliRtjWbSg</p>	teleSUR Venezuela
136527039242896 9986	<p>RT @IramsyteleSUR : #China #Covid_19 pandemic update</p> <ul style="list-style-type: none"> - Today 6 cases were reported, all foreign - No new deaths were reported - Chinese vaccine orders arrived to Argentina, 	teleSUR Venezuela

	Chile y Uruguay #COVID19 @teleSURtv https://t.co/Slf5y4Abio	
136499071818865 8688	RT @FabiolateleSUR : While #Cuba mass produces #COVID19 vaccine candidate #Abdala and gets closer to immunizing its entire population, 10 developed countries are monopolizing ¾ of vaccine doses globally @teleSURtv @TardoNayara https://t.co/ZYSI7a2lFT	teleSUR Venezuela
136494274383597 1587	RT @EduardomteleSUR : The second stage of roll out of the vaccination plan for seniors is underway in Mexico. On its first day, nearly 20,000 persons were immunized in three municipalities of Mexico City. Authorities provided Sputnik V doses that arrived last weekend https://t.co/9qM5t735x0	teleSUR Venezuela
136204368802580 4800	RT @madeleintlSUR : #NEWS Venezuela and PAHO make headway on vaccine fund https://t.co/wh2PGtVB0u	teleSUR Venezuela
136204344354401 0755	RT @karicartagena_ : #UN Security Commission holds debate on implementation of resolution 2532 (2020) regarding hostility cases in the context of the #COVID19 pandemic. The goal is to analyze what the #UN can do to guarantee equitable distribution of #COVID19 vaccines.	teleSUR Venezuela
136201101286245 9906	RT @teleSURAgenda_A : WORLD MX MEXICO IS FILING FORMAL COMPLAINT TO UNITED NATIONS FOR MONOPOLIZATION OF VACCINES BY WEALTHY COUNTRIES. WILL IT SERVE A PURPOSE?	teleSUR Venezuela
136136139575383 6546	RT @rolandoteleSUR : #Cuba is working on its own #COVID19 vaccination program. With a history of fighting disease without help from the West, it appears to be one of the first countries in the world to vaccinate its entire population in 2021. https://t.co/qFVhrMN9TK	teleSUR Venezuela
136133281093035 6224	RT @rolandoteleSUR : @lopezobrador_ aspires for #Mexico #COVID19 vaccine to be called Patria. "We are pleased #Cuba has #soberana1 and #soberana2, I am going to suggest that public	teleSUR Venezuela

	and private companies developing the Mexican vaccine name it Patria. https://t.co/K4UPC6rieP	
1361332747915165696	RT @rolandoteleSUR : #Mexico expects to be part of phase 3 clinical trial of #Cuba #COVID19 vaccine #soberana2. @lopezobrador_ government awaits @COFEPRIS authorization. "Cuba has been subject to sanctions and needs to develop its vaccines", says chancellor @m_ebrard. https://t.co/uqmkjTpYC8	teleSUR Venezuela
1361332686615433225	RT @rolandoteleSUR : #COVID19: Far from being an overnight success story, #Cuba capacity to develop #Covid vaccine is the result of decades of investment in the bio-pharmaceutical industry. https://t.co/bWcdW6yfPo https://t.co/KWsh1Ev8Tk	teleSUR Venezuela
1360660587370455040	RT @rolandoteleSUR : #BreakingNews: First shipment of #Russia #Covid_19 vaccine #SputnikV arrives to Venezuela https://t.co/dtNgTDE2f1	teleSUR Venezuela
1360659601692237830	RT @rolandoteleSUR : #SputnikV got dirty looks but now is the favorite #COVID19 vaccine to defeat the pandemic. #Russia https://t.co/OckP8wNxKt	teleSUR Venezuela
1360207296379379712	RT @rolandoteleSUR : Center for State Control of Medications, Medical Equipment and Devices @cubaCECMED evaluates first shipment of Cuban cu #COVID19 vaccine #Soberana02 after passing the pilot stage to scaling production. https://t.co/H4DWmY1lpk	teleSUR Venezuela
1359920822379569152	RT @LemusteleSUR : New strain of Covid19 registered in Goiás, different from the Amazon strain. We do not know if it is more lethal and contagious, also we do not know about the demand for vaccines. What we do know is the virus is circulating due to anti-prevention policies, fostering mutation. @teleSURtv https://t.co/GJg0lhGpnE	teleSUR Venezuela
1359899152180797444	RT @EduardomteleSUR : Mexico receives 2 million doses of Cansino Bio Covid-19 vaccines. They will be packaged at a plant in Queretaro. Yesterday @COFEPRIS authorized emergency	teleSUR Venezuela

	use of Cansino and Sinovac vaccines, both from China https://t.co/rvigzINIUE	
135951563618407 6290	RT @rolandoteleSUR : #Cuba produced first lot of 150k #Soberana02 #COVID19 vaccines and prepares to begin second production of another 150k, informs @BencomoVerez, Director of @FinlayInstituto https://t.co/l5IXAXLqny	teleSUR Venezuela
135949208816602 7264	RT @rolandoteleSUR : #Cuba is now scaling production of its #COVID19 vaccine #Soberana02 the furthest along of the four vaccine candidates, after passing phases 1 and 2 of clinical trials. "It turned out well. It is truly an important scientific milestone," says @BencomoVerez. "We are very hopeful" https://t.co/NVa12MhsFy	teleSUR Venezuela
135853830404881 6129	RT @rolandoteleSUR : #Cuba will produce 1 million doses of #COVID19 vaccine in April. According to @BencomoVerez the Island has the capacity and in the future will create more to manufacture the four vaccine candidates simultaneously, clinical trials currently underway and registered by the @WHO https://t.co/Mmgbvju1TL	teleSUR Venezuela
135853828886962 9954	RT @rolandoteleSUR : The world is waiting for #Cuba cu #COVID19 vaccine, the only country in Latin America and the Caribbean with four vaccine candidates in different stages of clinical trials registered by the @WHO https://t.co/2X5Kf1xp6J	teleSUR Venezuela
135853780308952 2693	RT @rolandoteleSUR : LaSexta of #Spain explains Cuba's #COVID19 vaccine candidates: #Cuba knows how to think up, create and manufacture vaccines. Cuba has 4 vaccines on the @WHO list of nearly 80 vaccines in clinical trials that are worth following and seem promising. https://t.co/lcdcd35orlj	teleSUR Venezuela
135774642023795 0980	RT @rolandoteleSUR : According to The Lancet, one of the most prestigious scientific journals in the medical world, #SputnikV, the #Russia vaccine against #COVID19 is 91% effective. https://t.co/wSB7MoF4z7	teleSUR Venezuela

135666938919454 3109	RT @rolandoteleSUR : #COVID19 vaccination in #Venezuela will rise in February and scale in April. According to Pres. @NicolasMaduro, #SputnikV trials were 100% effective, innocuous, without problems. Testing various vaccines with #China and waiting on #Cuba #Soberana02 and #Abdala https://t.co/SFJVNuB9nk	teleSUR Venezuela
135666937455228 9286	RT @rolandoteleSUR : Cuba #COVID19 vaccine candidate #Soberana02 begins phase III clinical trials on #March1 after demonstrating great safety and potent immune response in II A and II B studies. 150 thousand people will be immunized. https://t.co/9fRpMXHoqJ	teleSUR Venezuela
135666934080066 3554	RT @rolandoteleSUR : #Cuba begins second phase of clinical trial of #COVID19 vaccine candidate #Abdala, one of the four for national production. @CIGBCuba trial will immunize close to 800 volunteers between 19 and 80 years old, healthy or with offset pathologies. https://t.co/EmbEmHAZqg	teleSUR Venezuela
135666932822199 5018	RT @rolandoteleSUR : Head of Mission @WHO - @opsoms #Venezuela, @paoloballadelli ensures that #Venezuela will have access to #COVID19 vaccines through World Health Organization #COVAX mechanism. Says it is "imperative to have support of all forces and proceed with payment until #February9" https://t.co/DvKGJzPCSU	teleSUR Venezuela
135481676322179 0728	RT @rolandoteleSUR : Another scandal breaks out with @Lenin because Minister of Health @DrJuanCZevallos decides to vaccinate his family first. @AsambleaEcuador demands destitution of government for poor management of #COVID19 vaccination plan. https://t.co/GYyKPIFNJw	teleSUR Venezuela
135440831090099 4049	RT @teleSURAgenda_A : EUROPE EU EUROPEAN UNION AND PHARMACEUTICALS CLASH FOR DELIVERY OF ANTI COVID VACCINES. ¿WILL CONTROLS AND	teleSUR Venezuela

	REGULATIONS WORK IF IMPOSED BY OTHER GOVERNMENT STRANGERS TO PROGRESS?	
1352279501460418562	RT @rolandoteleSUR : #Cuba will produce 100 million doses of #Covid19 vaccine. @BIOCENCU and @FinlayInstituto coordinate large scale production of #Soberana02 for mass vaccination on the Island and share with countries interested in acquiring such as #India #Vietnam #Iran y #Venezuela. https://t.co/caQhLLo6hp	teleSUR Venezuela
1352234770034528256	RT @rolandoteleSUR : #CUBA will produce 100 million doses of one of its four #COVID19 vaccine candidates. @FinlayInstituto shows press laboratories where mass production of vaccines will be scaled, ALBA nations, others with pharmaceutical deals with the Island and tourists. https://t.co/aAbDq20K81	teleSUR Venezuela
1351943640013283331	RT @rolandoteleSUR : #Cuba aspires to begin use of one of its four #COVID19 vaccine candidates for mass vaccination of high risk populations. Meanwhile, clinical trial Phase II b expands vaccine candidate #Soberana02. https://t.co/5CMJ23dopA	teleSUR Venezuela
1349128086563008512	RT @LeonelTeleSUR : First phase of vaccination to begin with Russian Sputnik V https://t.co/b4ehaF8n1w	teleSUR Venezuela
1300485296325300224	Video: Nicolas Maduro:Cuban Covid-19 vaccine to be articulated by ALBA https://t.co/AcCwpidFTF #Covid19	teleSUR Venezuela
1300239530193281024	Video: Venezuelans are called to join phase 3 of Russian vaccine https://t.co/N78jR3HI4z #Covid19	teleSUR Venezuela
1299445695275888641	Video: Confirm deal for "Sputnik V" vaccine trial en Venezuela https://t.co/thZGln4aL8 #COVID19 #Coronavirus	teleSUR Venezuela
1299439057815117826	Video: Russia and Venezuela confirm production of "Sputnik V" vaccine https://t.co/V1CvDAhTqy #Economy #Pandemic	teleSUR Venezuela
1297982997199835145	RT @LemusteleSUR : Indigenous peoples denounce covid19 as a weapon for ethnocide in the Amazon. In turn, environmentalists and infectologists warn that logging encourages the	teleSUR Venezuela

	<p>proliferation of viruses. Today pharmaceuticals are confused with agribusiness.</p> <p>What vaccine will cure this system? @teleSURtv https://t.co/RLeCcRLp9q</p>	
1297271447946170372	<p>Video: Venezuela: Cuban vaccine clinical trials begin August 24 https://t.co/T2EHfigzbj #COVID19 #Coronavirus</p>	teleSUR Venezuela
1297268048081096704	<p>Video: Venezuela will participate in COVID-19 vaccine production https://t.co/xBgCG0WgLy #Pandemic #Coronavirus</p>	teleSUR Venezuela
1296976864507056129	<p>Video: Scientific Commission of Venezuela will evaluate COVID-19 vaccine https://t.co/JbsBgp7Nik</p>	teleSUR Venezuela
1295437242945675264	<p>Video: Gomez: Russia solidarity with humanity with Sputnik 5 vaccine https://t.co/h35CUr1P81</p>	teleSUR Venezuela
1295163616702926852	<p>Video: Nicolas Maduro: Russia begins Covid-19 vaccination in September https://t.co/6gnfQDfbjZ #Covid19</p>	teleSUR Venezuela
1291764285903798272	<p>The #WHO considers “very hopeful” that there are six #Covid_19 vaccine candidates in a very advanced phase https://t.co/sphALZnFO4</p>	teleSUR Venezuela
1291673688836907009	<p>The #WHO considers “very hopeful” that there are six #Covid_19 vaccine candidates in a very advanced phase https://t.co/sphALZFhcE</p>	teleSUR Venezuela
1290096499192283136	<p>Video: highlight Pres. Nicolas Maduro announcement of Russian Covid-19 vaccine https://t.co/qAr5IN61up #Covid19</p>	teleSUR Venezuela
1289364691291009024	<p>Video: Maturana and Chnaiderman analyze avances made on COVID-19 vaccine https://t.co/b0qqQhg1hm #Coronavirus #Pandemic</p>	teleSUR Venezuela
1289292762714648576	<p>Video: Regional work needed to obtain Covid-19 vaccine https://t.co/hQKQqEygza</p>	teleSUR Venezuela
1283544895353913348	<p>League of Samba Schools in #Brazil announces decision to celebrate Carnival 2021 as long as Covid-19 exists https://t.co/0CLdbv8Ljf</p>	teleSUR Venezuela
1271537102312833025	<p>Video: Maduro: ALBA countries will be guaranteed access to vaccine https://t.co/brtVojwxqm #COVID19 #Coronavirus</p>	teleSUR Venezuela

127086164621546 2912	Video: Pres. Maduro proposes prioritization of COVID-19 vaccine https://t.co/palHrbIQqF	teleSUR Venezuela
127083087944794 5220	Video: Nicolas Maduro: COVID-19 vaccine, priority for ALBA https://t.co/vSIVVI2xgd #Coronavirus #COVID19 #AlbaEconomicSolidarity	teleSUR Venezuela
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