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2 “Tuberculosis”

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4
5 **Discussion Points:**

6 Have you ever come across Tuberculosis-related content on Instagram? If so, how confident are you in the
7 accuracy of the information you've encountered?

8 #TuberculosisResearch #SocialMediaHealth #QualityContent #ReliableInformation #HealthAwareness

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1 • **ABSTRACT.**

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3 Background: Tuberculosis is one of the oldest diseases known to affect humans and a major cause of death
4 worldwide. The National Strategic Plan 2017-2025 aims to eliminate tuberculosis by 2025. Appraising
5 knowledge and awareness of tuberculosis are essential for successful tuberculosis control, given the
6 significance of social and psychological variables in determining health outcomes.

7
8 Methods: A cross-sectional observational study was conducted wherein, the top six hashtags related to
9 “Tuberculosis” on Instagram, identified by the maximum number of posts were taken. A questionnaire was made
10 for assessment of these posts based on various pre-determined categories- type of post, type of information
11 circulated and to assess if it is “true”, “false” or “cannot be determined” using the WHO Factsheet on
12 Tuberculosis & CDC.

13
14 Result: 370 posts found to be relevant as per the inclusion criteria, and had a vast interaction by the users.
15 These posts created and uploaded by the health and wellness industry comprised of 27.02%, followed by
16 doctors at 20.27% and news agencies at 5.96%. 50.54% of the posts analyzed contained a description of
17 tuberculosis and 20% about prevalence and diagnosis The posts by doctors and health and wellness industry
18 had a statistically significant higher number of posts that contained “true” information and scored statistically
19 significantly higher on the mean of Global Quality Scores and Reliability Scores.

20
21 Conclusion: Social-media is a powerful medium for disseminating scientific facts on TB. The government and
22 policymakers need to develop internet-based programs and interventions to improve knowledge, attitudes, and
23 practices towards TB.

24
25 **Key Words:** *Tuberculosis, Quality, Reliability, Social Media, Health Information* (Source: MeSH-NLM).
26

1 INTRODUCTION.

2 Tuberculosis (TB) is an infectious disease caused by *Mycobacterium tuberculosis*, which is mainly transmitted
3 through droplet infection. It primarily affects the lungs causing pulmonary TB; however, it can also affect other
4 organs of the body like the intestine, joints, meninges, bones, etc. causing extrapulmonary TB. In 2021, an
5 estimated 10.6 million people contracted TB with the death toll reaching an estimated 1.6 million, according to
6 the Global TB Report by the WHO. ^[1] India was one of the eight nations that accounted for more than two-
7 thirds (or 68.3%) of all TB patients, with 28% of cases. Its persistent morbidity and mortality burden thus,
8 makes it one of the major public health challenges in India. ^[1]

9 With the recent internet explosion in India leading to ease of access and increased internet penetration, there
10 are an estimated 470 million social media users as of 2022. Internet users are increasingly relying on social
11 media to discover and share health information. Instagram has been investigated as a health promotion
12 modality, with some researchers emphasizing Instagram's general utility as a source of education and
13 motivation ^[2-3] as well as users' experiences receiving social support via Instagram.

14 Additionally, health groups and professionals use this channel to share information about healthy lifestyle
15 choices and medical knowledge for disease prevention, considering that it offers a chance to promote health
16 awareness, self-efficacy, and treatment adherence among communities. However, these public tools can
17 create opportunities for social and health risks as recent studies have suggested that false or misleading
18 information about health may spread over social media more quickly than accurate information. As a result, it
19 is critical to understand how health misinformation spreads and how it may influence choices and health
20 habits.

21 Although there is widespread agreement among health professionals and policymakers regarding the
22 importance of controlling health misinformation, little is known about the effects that the dissemination of false
23 or misleading health messages via social media may have in the near future on public health. To address this
24 existing lacuna, we aim to assess the quality and reliability of information related to the disease "Tuberculosis"
25 on the social media platform Instagram.

26
27 This study aims to evaluate the type of information circulated about the disease "Tuberculosis" by categorizing
28 them into symptoms, treatment, etc, to assess the authenticity of this information by verification with official
29 resources like WHO, and to suggest measures for improving access to authentic information on Instagram by
30 the population.

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1 METHODS

2 A cross-sectional type of observational study was conducted virtually over a period of ten days. Instagram – a
3 widely used social media platform, was used to assess the information available about the disease
4 “Tuberculosis”. The top five hashtags were identified by the maximum number of posts - #tuberculosis,
5 #tuberculosisawareness, #tuberculosisistreatment, #tuberculosiswarrior, and #tuberculosisdiagnosis. Each
6 author was allotted one hashtag for further analysis. The authors analyzed the top ten posts under the allotted
7 hashtags each day for ten days. Posts in language “English” or “Hindi” and containing information about the
8 disease “Tuberculosis” were included in the study; while the rest were excluded. A questionnaire was made
9 for assessment of these posts based on various pre-determined categories- Information about the post,
10 information about the disease “Tuberculosis” and to assess if this information is “true,” “false,” or “cannot be
11 determined.” As per World Health Organization Factsheet on Tuberculosis & CDC guidelines, correct posts
12 were deemed to be providing “true” information, otherwise labeled as “false.”
13 The reliability and the quality of the posts were determined by using the Reliability Score and Global Quality
14 Score respectively. ⁽⁴⁾
15 Data was entered in Excel and analyzed using the function tool. Statistical analysis was performed using
16 SPSS software and the value of significance was calculated using T-test for mean and standard deviation and
17 Z-test for percentages.

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1 RESULTS.

2 A total of 370 posts were considered relevant and included in the study after applying the inclusion and
3 exclusion criteria. Table 1 shows the number of posts belonging to each hashtag that was included in the
4 study. Maximum posts belonged to #tuberculosistreatment, followed by #tuberculosis.

5
6 Table 2 shows the characteristics of the posts analyzed based on the type of post (image or video) and their
7 interaction with users (number of likes and comments).

8
9 Figure 1 depicts the owner of the posts (doctor, pharmaceutical industry, etc, who created and uploaded the
10 post). The 370 posts had a wide reach evidenced by 66048 likes and 1823 comments by the users. However,
11 only 20% of the posts were created and uploaded by doctors.

12
13 Table 3 shows the type of information about tuberculosis circulated by the posts. 50% of posts gave
14 descriptive information about the disease and 20% of posts revealed information about prevalence and
15 diagnosis.

16 Out of all the posts analyzed, the information circulated in them was "true" in 287 posts (77.57%), "false" in 3
17 posts (0.81%) and it "could not be determined" in 80 posts (21.62%).

18 55 out of the 370 analyzed posts (14.86%) had promotional content whereas 315 posts (85.14%) had no
19 promotional content.

20 After proper training of each author about analyzing the quality and reliability of the posts, each one assessed
21 the posts independently under the hashtag allotted to them.

22 The quality of posts was analyzed using Global Quality Score. The posts were rated from "Very Low" quality
23 to "Very high" quality using pre-determined criteria (Table 5). The reliability of the posts was analyzed using
24 Reliability Score. The calculation of the reliability score uses five questions – the answer to the question "yes"
25 is scored as point one and "no" is scored as zero. The total score of five questions is calculated for each post.
26 These five questions are (1) Are the aims clear and achieved? (2) Are reliable sources of information used?
27 (3) Is the information presented balanced and biased? (4) Are additional sources of information listed for
28 patient reference? (5) Does it refer to areas of uncertainty?

29 The total number of relevant posts was divided into two groups. The information posted by doctors and others
30 in the healthcare industry involved in active patient care was grouped into group A and all others into group B.
31 (Tables 5 and 6). There was a significant difference in the number of "true" posts (p value=0.000085), Global
32 Quality Score (p value= 0.0018), and Reliability Score (p -value =0.0007) between the two groups. (Tables 5
33 and 6)

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1 **DISCUSSION.**

2 In this study, 370 posts were found to be relevant using the inclusion criteria and had a vast interaction by
3 users on Instagram with 66048 likes and 1823 comments. The health and wellness industry created and
4 uploaded these posts comprising 27.02% of the total posts, followed by doctors at 20.27% and news agencies
5 at 5.96%. However, it was interesting to note that 38.64% of the posts came from various miscellaneous
6 sources with the majority from pages dedicated solely to the purpose of TB awareness and education. 14.86%
7 of the posts had promotional content. Around 50.54% of the posts analyzed contained descriptions of
8 tuberculosis and 20% had information about prevalence and diagnosis. Another study by Fickman et
9 al. [5] about content analysis related to COVID-19 on Instagram had “diagnosis and prevention” as major
10 themes in the reviewed posts.

11 Most posts (77.57%) in our study had “true” information about tuberculosis.

12 The posts created and uploaded by doctors and the health and wellness industry had a statistically significant
13 higher number of posts that contained “true” information ($p < 0.05$) and scored statistically significantly higher
14 on the mean of Global Quality Scores and Reliability Scores.

15 Some studies similarly revealed that Internet users trust expertise-based information sources over
16 experience-based information sources [6] whereas others found no significant difference in the perceived
17 credibility of the content generated by doctors and laymen. [7]

18 Healthcare practitioners and policymakers, in addition to social media owners, can help reduce the potential
19 harm of misleading or incorrect information transmitted through social media by directing patients to reputable
20 sources. However, as healthcare providers are unable to control the content that is posted or discussed, there
21 is still a high risk of misinformation. A study by Mahmud et al. [8] revealed poor knowledge, attitude, and
22 practices toward TB among social media users.

23 Therefore, we recommend that doctors and healthcare professionals work in collaboration with health
24 influencers to develop and implement communication strategies aimed at busting myths and stigmas related
25 to TB and improving patient awareness. This strategy has been examined by previous research into
26 Instagram suggesting that influencers provide several techniques for disseminating information that may be
27 less possible for organizations. [9-10] Moreover, indications from social media about significant health events or
28 trends could provide policymakers with information to guide the development of targeted and timely
29 interventions, thereby making social media analysis immensely valuable in government policy making. [11]

30 So, government interventions are imminent given the impact TB has on the population, as a result, we
31 recommend adopting a strategy to tackle online misinformation and fake news about TB ensuring only reliable
32 and good quality information is circulated from a credible approved source. This strategy can be integrated
33 into the government’s National Tuberculosis Elimination Program (NTEP) which has adopted various
34 technological approaches [12] to improve patient care in the recent past, so ensuring quality TB content will
35 only strengthen this approach. Fact-checking teams can be established to mitigate the spread of

1 misinformation by efficiently identifying and verifying unreliable content. The social media and technology
2 industries can also use artificial intelligence (AI) as a supplement to combat misinformation, like the detection
3 of false news. ^[13] Since AI is easily trainable to identify examples of news that are factually accurate, and by
4 leveraging AI's ability to detect anomalies or deviations from the norm, it is possible to develop a solution that
5 can continuously monitor, compare, and report on the factual accuracy of posts.

6 This study had some limitations, including the possibility of posts being repeated if they contained multiple
7 hashtags. Although our sample size was small, this was done on purpose because users typically only view
8 the top few posts that catch their attention, rather than going through all the available posts. In addition,
9 because Instagram lacks the feature to authenticate credentials, we were unable to verify the doctor's
10 qualifications or those of the health and wellness industry. We are also aware that, despite receiving a large
11 number of likes and comments, we were unable to estimate the precise number of users who viewed the
12 posts. This estimate could have been significantly higher, but we lacked the resources necessary to ascertain
13 it.

14 In conclusion, the posts created and uploaded by doctors and the health and wellness industry had a
15 statistically significantly higher number of posts with "true information", a higher mean Global Quality Score,
16 and Reliability score. To achieve the End-Tb Goal of 2030, the policymakers should join hands with doctors
17 and the health-wellness industry to ensure that correct information is being circulated on social media like
18 Instagram and the use of artificial intelligence software will promptly help to identify incorrect information and
19 thereby stop misinformation from being circulated.

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Accepte

1 **SUMMARY - ACCELERATING TRANSLATION**

2 Title: Assessing the Quality and Reliability of Tuberculosis Information on Instagram

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4 Summary: Tuberculosis (TB) is a centuries-old disease that continues to be a significant global health concern.
5 In an effort to control and eliminate TB, it is crucial to understand people's knowledge and awareness of the
6 disease. With the rise of social media as a platform for health information, this study examined the quality and
7 reliability of TB-related information on Instagram.

8

9 Over a period of ten days, researchers conducted a virtual cross-sectional survey on Instagram to evaluate the
10 information shared under the top six hashtags related to tuberculosis. The study focused on posts in English or
11 Hindi that contained information about TB. A questionnaire was developed to assess various aspects of the
12 posts, such as the type of information and its accuracy, using reliable sources like the World Health Organization
13 (WHO) and the Centers for Disease Control and Prevention (CDC).

14

15 A total of 370 relevant posts were analyzed, with a significant level of engagement from users, including 66,048
16 likes and 1,823 comments. The posts were primarily created by the health and wellness industry (27.02%),
17 followed by doctors (20.27%) and news agencies (5.96%). Approximately half of the posts included descriptions
18 of TB, while 20% discussed prevalence and diagnosis.

19

20 The study found that posts created by doctors and the health and wellness industry were more likely to contain
21 accurate information compared to other sources. These posts also received higher scores for overall quality
22 and reliability. This highlights the importance of reliable sources when seeking health information on social
23 media platforms.

24

25 The findings suggest that social media can serve as a powerful tool for disseminating accurate scientific
26 information about TB and other diseases. However, it is essential for governments and policymakers to develop
27 internet-based programs and interventions to improve knowledge, attitudes, and practices related to TB.

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29 This study underscores the need for individuals to critically evaluate the information they encounter on social
30 media platforms. When searching for health-related information, it is advisable to rely on reputable sources such
31 as government health agencies, medical professionals, and established health organizations. By being cautious
32 about the sources of information and verifying its accuracy, individuals can make better-informed decisions
33 regarding their health.

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35 Additionally, healthcare professionals and organizations should consider utilizing social media platforms to
36 educate the public about TB and promote reliable sources of information. By actively engaging with social media
37 users, healthcare providers can help combat misinformation and provide accurate information about TB
38 prevention, diagnosis, and treatment.

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40 In conclusion, while social media platforms like Instagram can be valuable sources of health information, it is
41 crucial to critically assess the reliability and accuracy of the content. Government initiatives, along with the active

1 involvement of healthcare professionals, are needed to ensure that accurate and trustworthy information about
2 TB is readily available to the public. With improved knowledge and awareness, we can work towards reducing
3 the burden of TB and achieving the goal of its elimination by 2025.

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Accepted, in-press

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1 **FIGURES AND TABLES.**

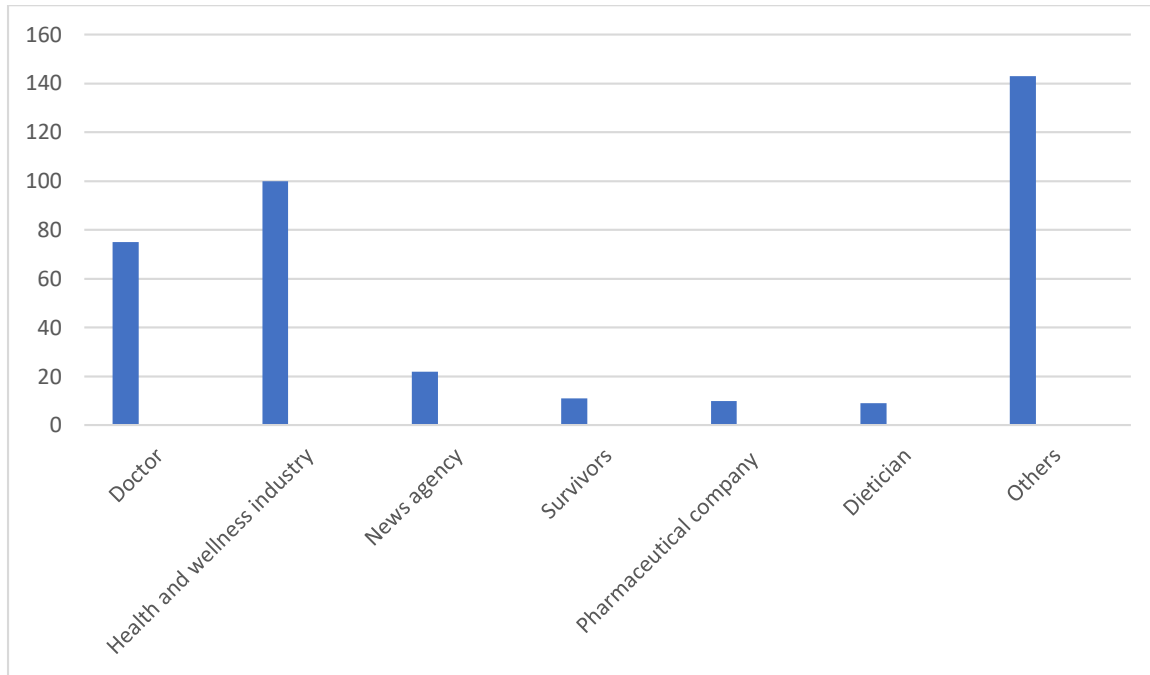
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3 **Figure 1.**

4 Owner of the posts (created and uploaded the post)

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Table 1.
Number of Relevant Posts Identified under each Hashtag

Hashtag name	Number of relevant posts
#tuberculosis	80
#tuberculosisawareness	71
#tuberculosis-treatment	102
#tuberculosis-warrior	38
#tuberculosis-diagnosis	79
Total	370

Accepted, in-press

1 **Table 2.**

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3 Characteristics of the Posts Analysed

4

	N	Percentage
<i>Type of post</i>		
Image	333	90%
Video	37	10%
<i>Engagement with users</i>		
Total no. of likes	66048	
Total no. of comments	1823	

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1 Table 3:
2 Type of Information about Tuberculosis Communicated by the Posts

	N	%
Description	187	50.54
Prevalence	75	20.27
Symptoms	62	16.76
Diagnosis	75	20.27
Screening	61	16.49
Prevention	56	15.14
Treatment	58	15.68
Mortality	14	3.78
Rehabilitation	5	1.35
Support Groups	11	2.97
Patient sharing their own experience	13	3.51
Parents sharing experience with family members	4	1.08

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1 Table 4: Quality and Reliability of The Posts

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		N	%
<i>Global Quality Score</i>			
1	Very low (Poor quality, poor flow of the site, most information missing, not at all useful for patients)	100	27.03
2	Low (Generally poor quality and poor flow, some information listed but many important topics missing, of very limited use to patients)	106	28.65
3	Medium (Moderate quality, suboptimal flow, some important information is adequately discussed but others poorly discussed, somewhat useful for patients)	118	31.89
4	High (Good quality and generally good flow, most of the relevant information is listed, but some topics not covered, useful for patients)	39	10.54
5	Very High (Excellent quality and excellent flow, very useful for patients)	7	1.89
<i>Reliability Score</i>			
1	Very Low	115	31.08
2	Low	96	25.95
3	Medium	97	26.21
4	High	50	13.51
5	Very High	12	3.24

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1 Table 5: Comparison of the Posts having “True” information in the Group A and Group B

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	Group A (n=205) (Posts created and uploaded by doctors and health & wellness industry)	Group B (n=165) (Posts created by those not included in Group A)
Posts having “true” information	174	113
Percentage	84.88%	64.48%
P value = 0.000085 (Significant, p value <0.05)		

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1 Table 6: Comparison of the Mean of Global Quality Score and Reliability Score of the Posts in the Group A
2 and Group B

	Group A (Posts created and uploaded by doctors and health & wellness industry)	Group B (Posts created by those not included in Group A)
<i>Global Quality Score</i>		
Mean ± SD	2.47 ± 1.00	2.13 ± 1.07
P value = 0.0018 (Significant; p<0.05)		
<i>Reliability Score</i>		
Mean ± SD	2.50 ± 1.12	2.10 ± 1.13
P value = 0.0007 (Significant; p<0.05)		

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