



## MISINFORMATION ON SOCIAL MEDIA A DERMATOLOGIST'S PERSPECTIVE

Alpana Mohta, MD, DNB

NMC Medical Centre, Sharjah, UAE











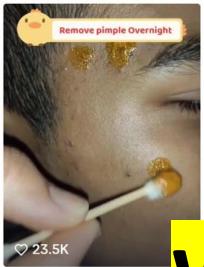


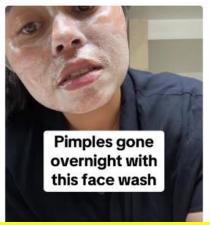
- 40-year-old male
- Periorbital diffuse woody-hard induration.
- Claimed bee sting reaction ≠ clinical picture. Spurious history?
- Differentials: Pseudolymphoma, calcinosis cutis.



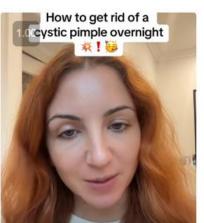
- Later admitted to self-injecting sweet-almond oil + oil extracted from Vitamin E capsules 8 weeks ago.
- Why? "Because I saw a video on YouTube that says this mixture is a natural under-eye filler."

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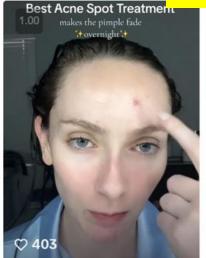








## Remove Pimple Overnight WHO'S TREATING YOUR



Update the pimple is comple...

a\_delicate\_fl...

2024-6-1



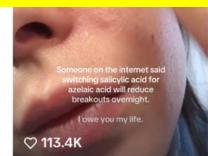
French patches are top tier ... A theparisian... 2024-12-4

# **Emergency Pimple**

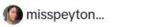
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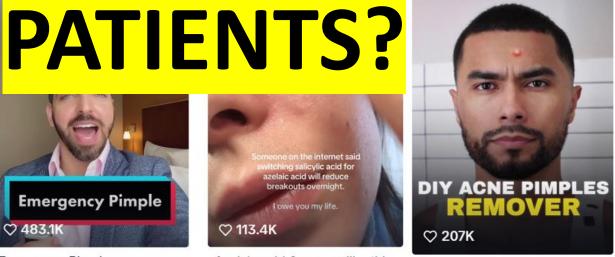
m dermdoctor 2021-5-31

♥ 483.1K



Azelaic acid & me are like thi...





Try this to get rid of pimples ...





your acne within 2...

2024-7-5

Beauty Hack that feels illega...



## Health Advise Seeking Pattern

- Social Media (SM) is the 'new waiting room.'
- 70%+ adults search health info.online.<sup>1</sup>
- "Peer-to-peer healthcare" communities share personal experiences
  - → health info. accessible, peer validated, and convenient.
- Info. seeking behavior on SM:
  - 1. Active (search terms and communities) 🔼 🍪 🚺



















## Patients' preferences on atopic dermatitis skincare and social media use: a qualitative study

Roxana Mazilu <sup>1</sup>, Stefanie Ziehfreund <sup>1</sup>, Stephan Traidl <sup>2</sup>, Alexander Zink <sup>1,3,⊠</sup>

#### Why They Use SM?

Niche products, community support

"I learned more from social media about managing my lifestyle than from my doctors."

#### **How They Choose Products?**

"Natural," reviews, fear of steroids (corticophobia)

#### Why They're Cautious?

Too many opinions, too much confusion

"There's simply too large a range of products and opinions... It becomes difficult to decide."

Platform	Largest demographics	Volume of info.	Fact-checking & regulation policies	
Facebook	communities)		Meta recently ended 3 <sup>rd</sup> party fact-checking. Crowd-sourced, community-driven. No medical expert oversight.	
Youtube	All ages	Extensive	Active but limited. User reports and algorithms.	
[Instagram	18-34 yrs	Moderate	Meta policies.	
TikTok	Heavily skewed: Gen Z, 16-24ys	Moderate Skewed towards health info.	Follows EU Disinformation Code.  3 <sup>rd</sup> -party: PolitiFact, Lead Stories.  Lag behind with viral content.	
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Platform	Primary info.seeking route	Most common demographics	Volume of info.	Fact-checking & regulation policies
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TikTok	Active and passive	Heavily skewed: Gen Z, 16-24ys	Moderate Skewed towards health info.	Follows EU Disinformation Code.  3 <sup>rd</sup> -party: PolitiFact, Lead Stories.  Lag behind with viral content.
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52		ne 91, Issue 3, Supplement	Trends and thei	Fact-checking & regulation policies	
Affi	Derya Turk, BS · Rajaa Shoukfeh, BS · Dilara Turk, MD · Taylor Adlam, MD · Geoffrey Potts, MD  Affiliations & Notes ✓ Article Info ✓				Meta recently ended 3 <sup>rd</sup> party fact-checking. Crowd-sourced, community-driven. No medical expert oversight.
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#### fo. Fact-checking & regulation policies

#### 52787 TikTok Skincare Trends and their Clinical Evidence

Derya Turk, BS·Rajaa Shoukfeh, BS·Dilara Turk, MD·Taylor Adlam, MD·Geoffrey P

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Truth or Trend - Misinformation Spreading Fast on TikTok: A Cross-Sectional Analysis of

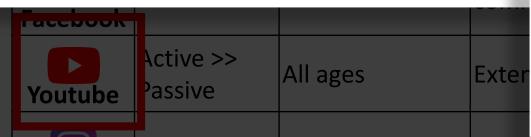
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## TikTok as a Source of Health Information and Misinformation for Young Women in the United States: Survey Study

<u>Ciera E Kirkpatrick</u> <sup>1,™</sup>, <u>LaRissa L Lawrie</u> <sup>2</sup>

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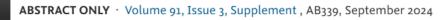
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Original Article VOLUME: 19 ISSUE: 1 P: 68 - 73 March 2025 Investigating the Role of YouTube in Disseminating Information on Mycosis Fungoides: The Most Common Skin Lymphoma and Eczema Mimicker Turk J Dermatol 2025;19(1):68-73

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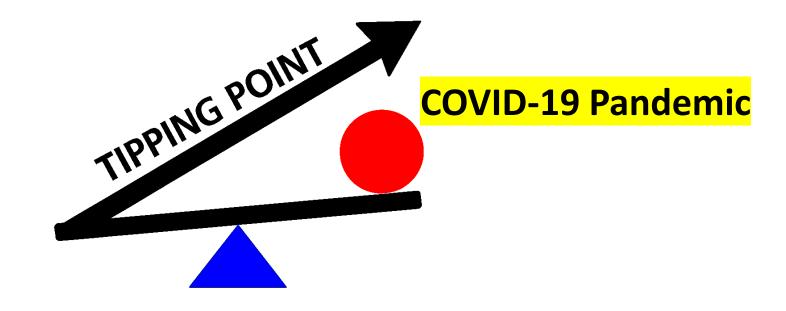
|High risk in fringe communities. subreddits

Two years after an open letter to YouTube, fact-checkers remain dissatisfied with the platform's inaction

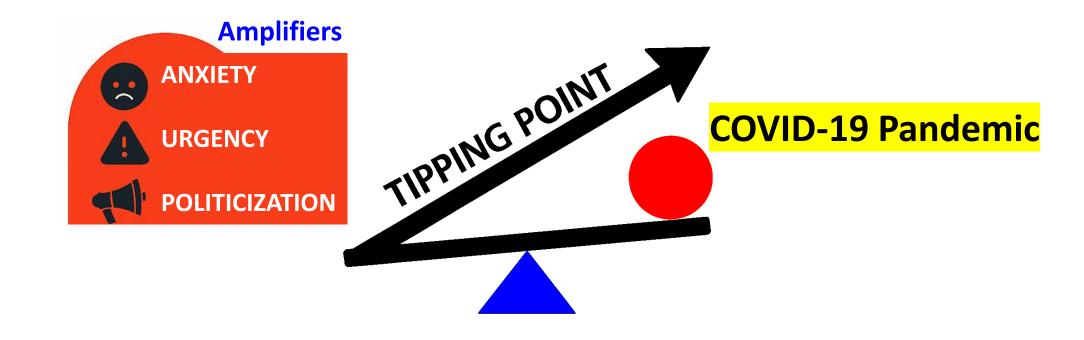
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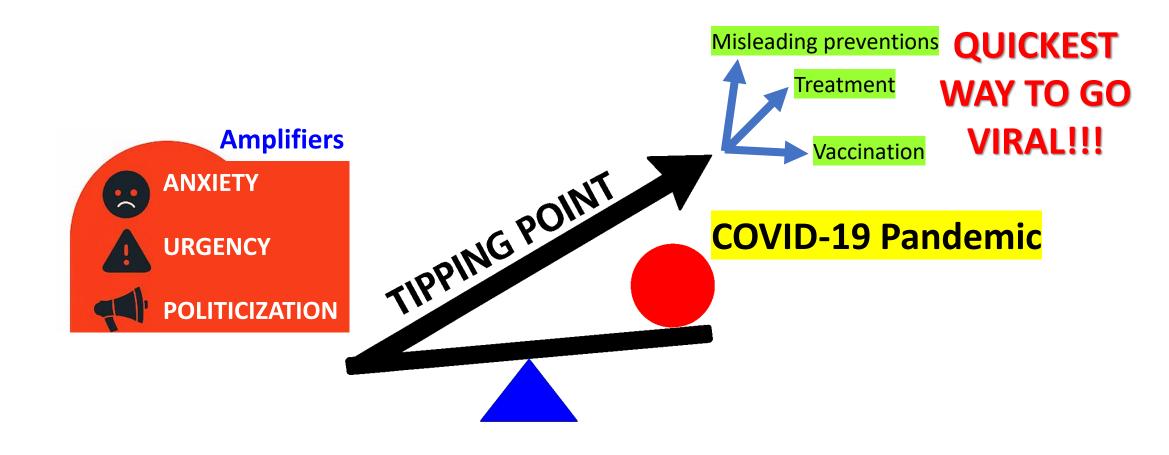
## The Burden of SM Misinformation



## The Burden of SM Misinformation



### The Burden of SM Misinformation



- Misinformation affects 10–30% of all health content.<sup>1,2</sup>
- Dermatology, being a visual branch, is especially vulnerable.

Instagram Posts	TikTok Posts
136M	32.4M
12.9M	3.3 M
3.3M	417K
2.6M	267.8 K
2M	168.5K
1.6M	267.6K
498K	28K
460K	36.3K
401K	121K
131K	13.5K
75K	8,060
	136M 12.9M 3.3M 2.6M 2M 1.6M 498K 460K 401K 131K

#### Data accurate as of 31 March 2025

#### Sources

<sup>1.</sup> Borges do Nascimento IJ, et al. Infodemics and health misinformation: a systematic review of reviews. Bull World Health Organ. 2022;100(9):544-56149.

<sup>2.</sup> Suarez-Lledo V, et al. Prevalence of Health Misinformation on Social Media: Systematic Review. J Med Internet Res 2021;23(1):e17187

# Who is Spreading Misinformation?

#### **DERMATOLOGY MISINFORMATION PYRAMID**

Peer-to-Peer Forums (Reddit), User-Generated Content (UGC), influencers and Non-Professionals

Wellness Experts (fitness coach, dieticians, nutritionists)

Alternative Medicine
Practitioners (homeopathic doctors, ayurveda)

HCPs (non derms, non-specialists, out of specialty)

> Subject Matter Experts (Dermatologists)

Reliable Evidence-based Often accurate Misinformed
Sensationalized
Incentivized
Shock value
Creating a sense of
'urgency'

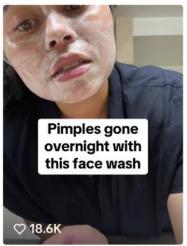
## Why the Lie Wins?

Simplicity vs. complexity

Eg. "Cure acne overnight" beats "evidence-based treatment for acne."



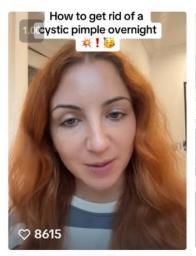
Remove Pimple Overnight ... 2023-10-8



My go to when I breakout ...
hannah.aar... 2024-10-28



I cannot believe the results o...
anna\_annora 2023-10-22



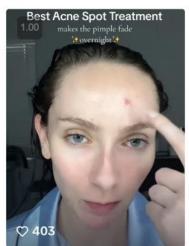
Thank me later... #acne ...
ameliagartn... 2024-6-3







Get rid of your acne within 2... daddybrow... 2024-7-5



Update the pimple is comple...

a\_delicate\_fl... 2024-6-1



French patches are top tier ...

### theparisian... 2024-12-4



Emergency Pimple ...

dermdoctor 2021-5-31







Try this to get rid of pimples ...

joseczuniga 2024-8-31



Beauty Hack that feels illega...

natalianaz1

1-9



Remove Pimple Overnight ...
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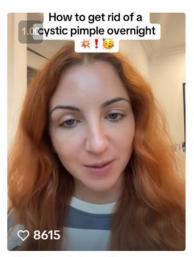


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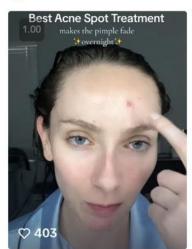
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Life Hacks \* #fyp ...
onlyjayus 2021-7-13

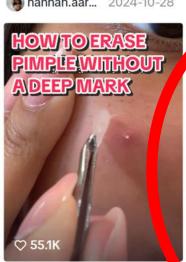


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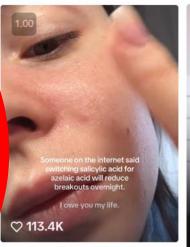


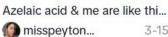
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Try this to get rid of pimples ... | joseczuniga 2024-8-31

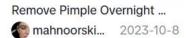


Beauty Hack that feels illega...

natalianaz1

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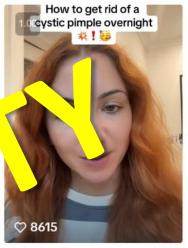




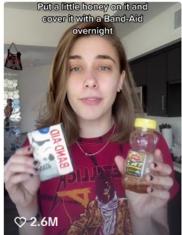
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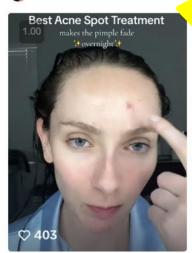
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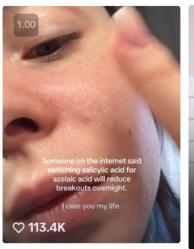
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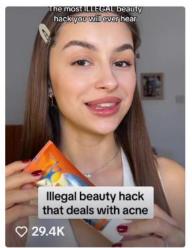
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3-15



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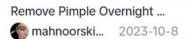
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Beauty Hack that feels illega...

natalianaz1 1-9









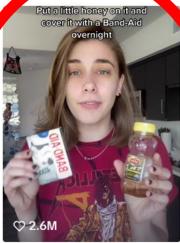


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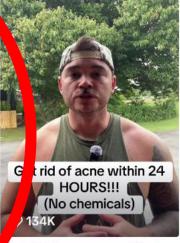


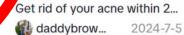
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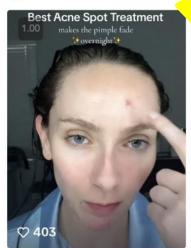
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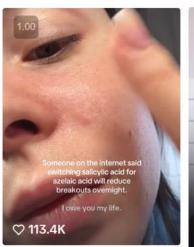


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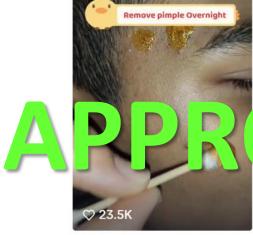
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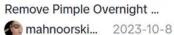


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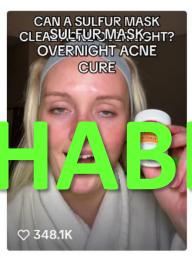
1-9



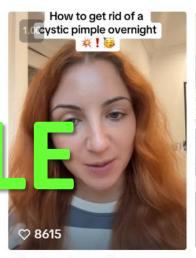




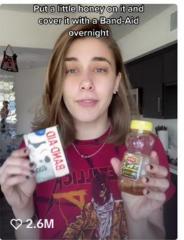
My go to when I breakout ...
hannah.aar... 2024-10-28



I cannot believe the results o...
anna\_annora 2023-10-22



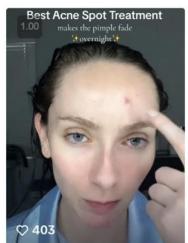
Thank me later... #acne ...
ameliagartn... 2024-6-3







Get rid of your acne within 2... daddybrow... 2024-7-5



Update the pimple is comple...

a\_delicate\_fl... 2024-6-1

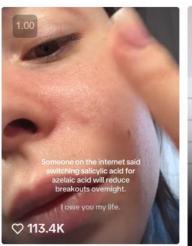


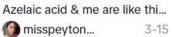
French patches are top tier ...

• theparisian... 2024-12-4







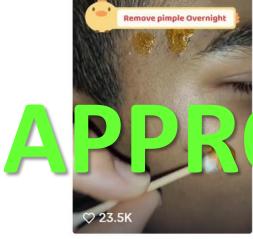


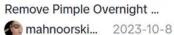


Try this to get rid of pimples ... poseczuniga 2024-8-31

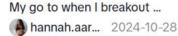


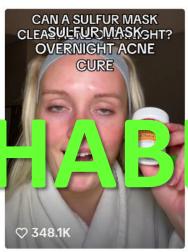
Beauty Hack that feels illega...
natalianaz1 1-9



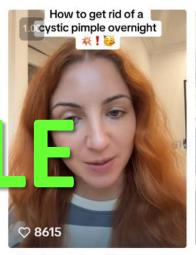




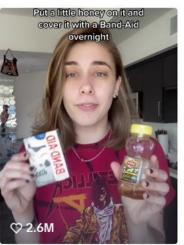




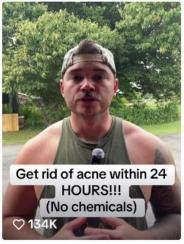
I cannot believe the results o...
anna\_annora 2023-10-22

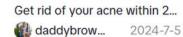


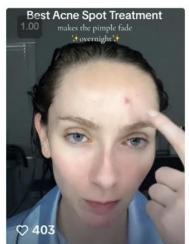












Update the pimple is comple...

a\_delicate\_fl... 2024-6-1

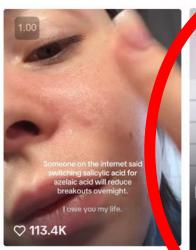


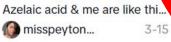
French patches are top tier ...

A theparisian... 2024-12-4



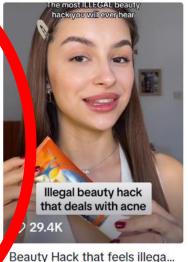












1-9

natalianaz1

Source: Tiktok.com





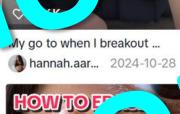


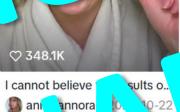








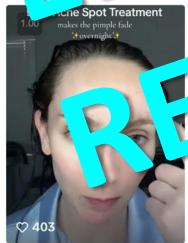


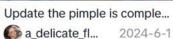




Life Hacks 🌚 #fyp ... onlyjayus 📀 2021-7-13

daddybrow... 2024-7-5

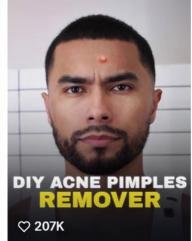


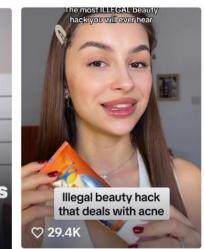














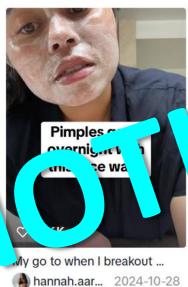


Azelaic acid & me are like thi... misspeyton...

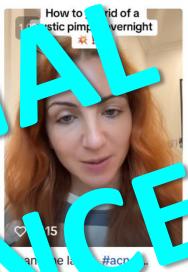
Try this to get rid of pimples ... joseczuniga 2024-8-31

Beauty Hack that feels illega... natalianaz1 1-9



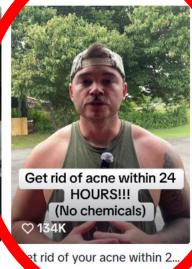




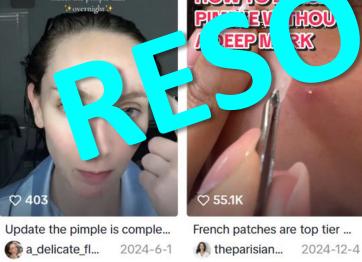


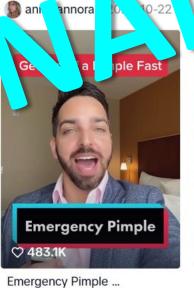


2021-7-13

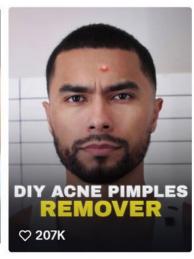


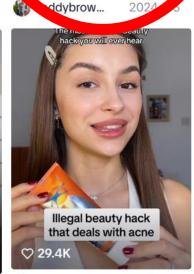






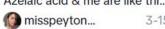




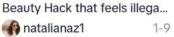




dermdoctor ② 2021-5-31







## "evidence based treatment for acne"



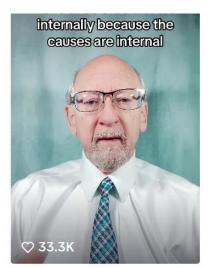
One of my favorite topical pr...





B Vitamins for acne! In healt...

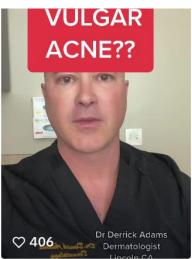




The causes of acne are inter...

and drccurtis

2023-12-30



#fyp #dermatologist ...

twelvebridg...

2023-5-6



Laser Acne Treatment ...

droyetakin

Let's talk about it: hormonal ... ♠ drcharlesmd1 2023-2-2

♥ 5884

2-21

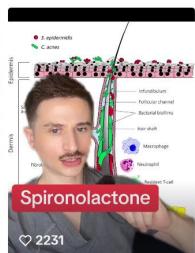
**Hormonal** 



Acne Vulgaris Treatment ...

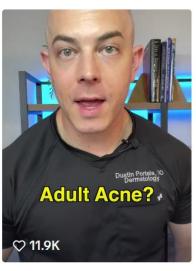
Source: Tiktok.com

muzammilp... 2023-5-24



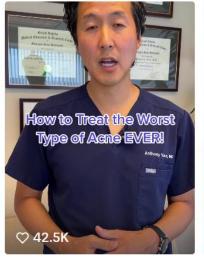
What #acne topics or treatm...





#LaRochePosayPartner Gen...





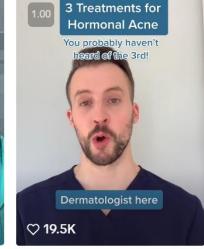
How to treat deep, painful a...





Breaking down some of the ...

♠ drpimplepo... ②2023-11-18



3 treatments for hormonal a...



dermarkolo...

2021-9-20

## Eczema Misinformation











#### Asha \* Skincare | Jewelry

My dermatologist advice me not to use dettol to bath.

Reply



 $\Diamond$ 

 $\Diamond$ 



asiajae | mom content creator ·Creator Well friend I can say it has helped my son TREMENDOUSLY better than anything prescribed by his dermatologist.. and I mean anything 😂

3-11

Reply





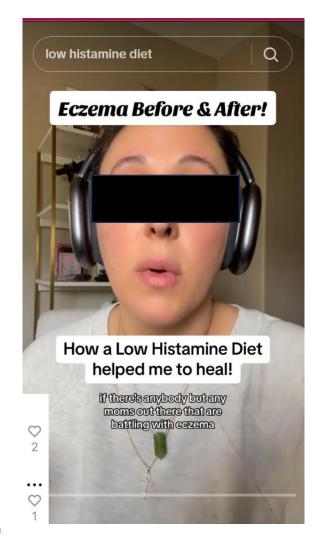
bath.

Reply



asiajae | mom content creator ·Creator Well friend I can say it has helped my son TREMENDOUSLY better than anything prescribed by his dermatologist.. and I mean anything 😂

3-11 Reply





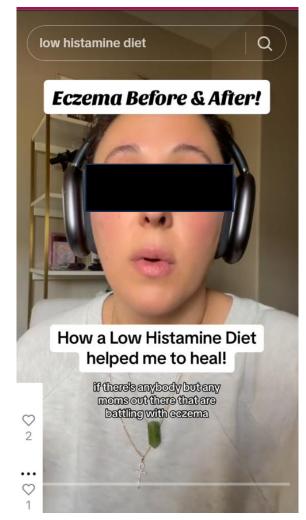


TREMENDOUSLY better than anything prescribed by his dermatologist.. and I mean

anything 😂

3-11

Reply



► 3 MUST KNOW reasons why you're REACTING with clothing/laundry detergent! ! You have a histamine intolerance ! Your body is reacting to synthetic & harsh chemicals in your detergent ! You're oestrogen dominant and have lower progesterone ratios

## Case Study: Psoriasis on Tiktok

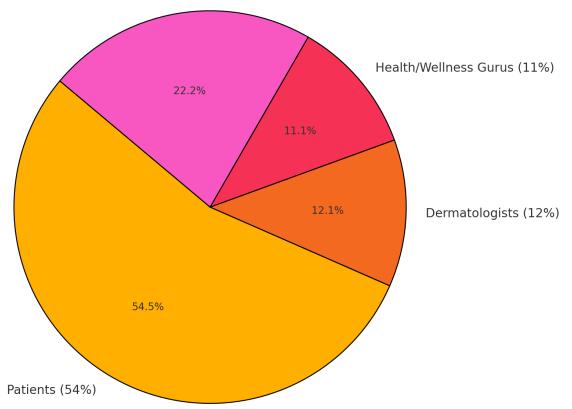
> Skin Res Technol. 2024 Jul;30(7):e13877. doi: 10.1111/srt.13877.

### Descaling psoriasis narratives on TikTok: A crosssectional study

- Analysis of first 200 videos on TikTok tagged #Psoriasis.
- •Evaluated educational content as reliable/unreliable per NICE guidelines (CG153: "Psoriasis: Assessment and Management")

### Hairdressers, Tattoo artists, Relatives or friends of psoriasis patients

Others (22%)



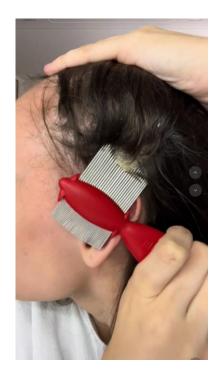
### **EDUCATIONAL CONTENT RELIABILITY:**

- Reliable (55%)
  - 26 videos total
  - All 16 dermatologist videos were reliable
- X Unreliable (45%)
  - 21 videos total
  - 13 out of 15 from wellness gurus were unreliable

### **•PATIENT CENTRIC MISINFORMATION:**

Most viral = plaque removal (49% patient videos, ~5 million likes).











Source: Tiktok.com

- A highly misleading video claiming causal link between psoriasis and yeast in the body: 400K likes.
- health/wellness gurus recommending diet over medications to treat psoriasis.







Source: Tiktok.com



How many weeks does it take to heal psoriasis on the face when using manuka and Himalayan?

2024-5-... Reply



### Translated using Google translator

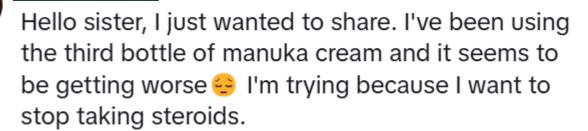




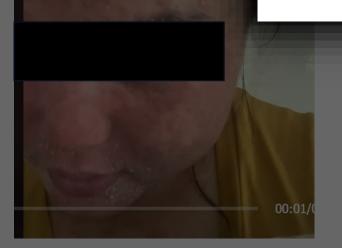
### Translated using Google translator

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2024-5-... Reply



2024-3... Reply









### Translated using Google translator

How many weeks does it take to heal psoriasis on the face when using manuka and Himalayan?

Find related content

2024-5-... Reply



Hello sister, I just wanted to share. I've been using the third bottle of manuka cream and it seems to be getting worse I'm trying because I want to stop taking steroids.

2024-3... Reply



idk but am I the only one whose face and whole body hurt when I used the manuka cream and himalayan soap. my skin was so irritated  $\odot$ 

3-20 Reply



### Translated using Google translator

How many weeks does it take to heal psoriasis on the face when using manuka and Himalayan?

Find related content





Hello sister, I just wanted to share. I've been using the third bottle of manuka cream and it seems to be getting worse I'm trying because I want to stop taking steroids.

2024-3... Reply





Reply



comb using a lice comb..then use a facial scrub then wash your face

1-2 Reply

# What Happens If an Influencer Makes a 'Drug Claim'?

- OK to say: "Supports skin health" (Structure-function claim)
- Not OK to say: "Cures psoriasis" that's a drug claim

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# What Happens If an Influencer Makes a 'Drug Claim'?

- OK to say: "Supports skin health" (Structure-function claim)
- Not OK to say: "Cures psoriasis" that's a drug claim



- Product becomes an unapproved drug
- FTC can take legal action
- Influencer/derminfluencer can be personally sued







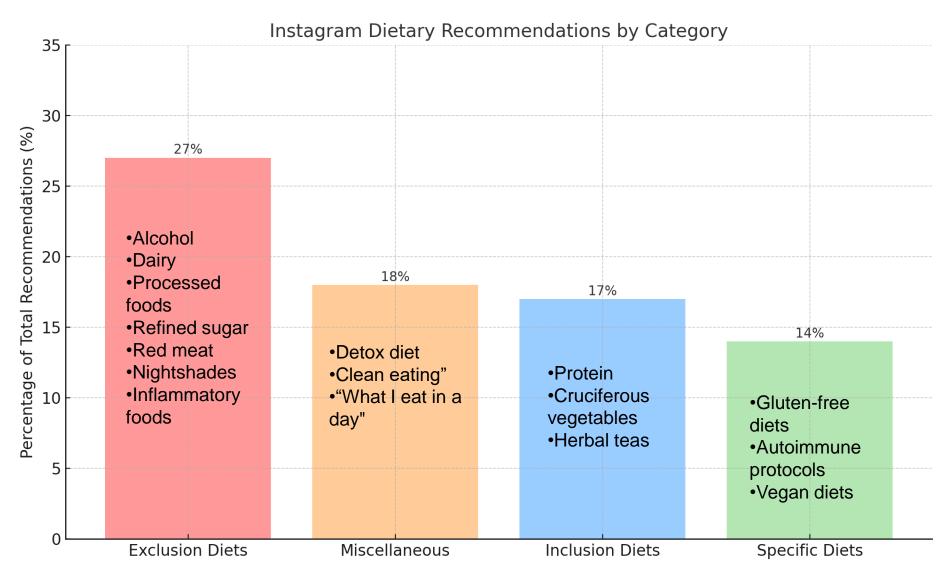


### Diet and Psoriasis-Related Information on Instagram: A **Quality and Content Analysis of Posts Under Popular Psoriasis** Hashtags

Sabrina Cowan, Poppy Hawkins X, Ghislaine Marks, Rosalind Fallaize

First published: 04 March 2025 | https://doi.org/10.1111/jhn.70034

### • 99% of Instagram posts were classified as poor quality.



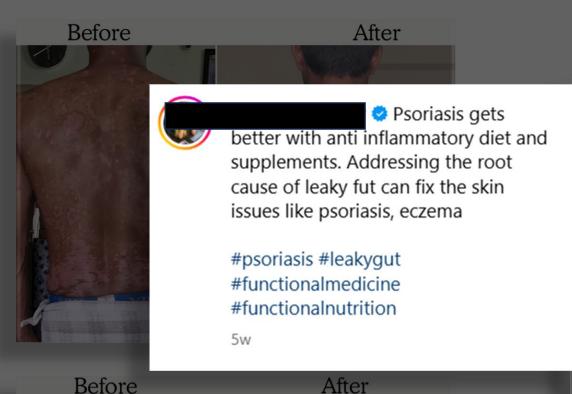




Source: Instagram

He came with a major complaints of chronic constipation ,leaky gut ,Psoriasis & fungal over growth .With simple dietray modifications and supplements there are visible changes in his over all symptoms .

His program is not yet done, we would continue to work on his psoriasis and would keep you all updated

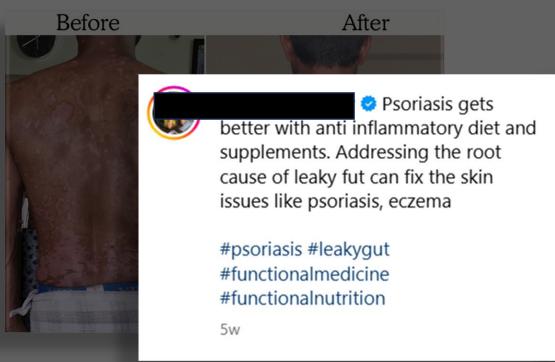


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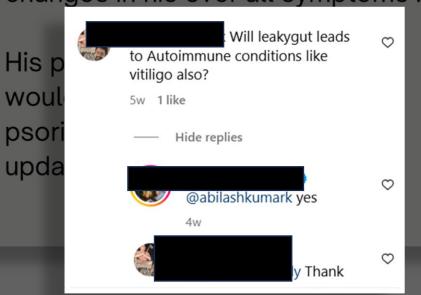


Source: Instagram



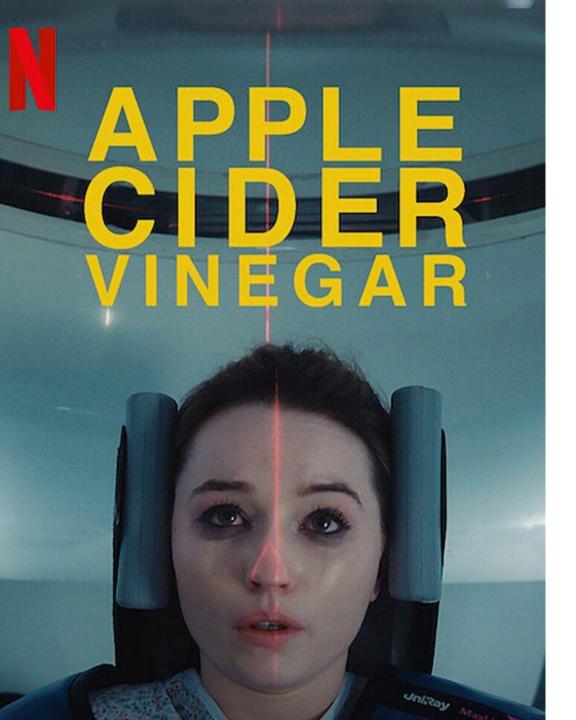
Before After

He came with a major complaints of chronic constipation ,leaky gut ,Psoriasis & fungal over growth .With simple dietray modifications and supplements there are visible changes in his over all symptoms .

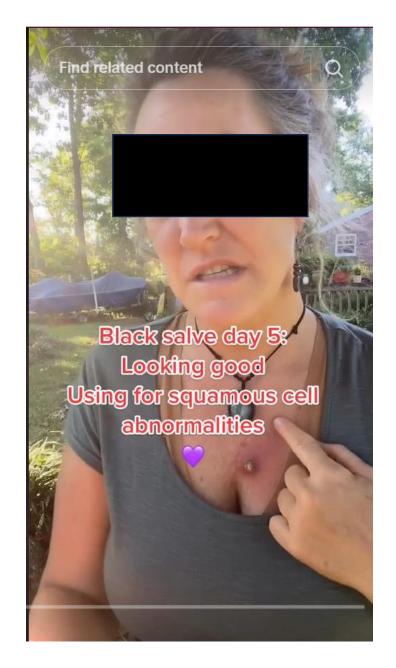


Source: Instagram

## Skin Cancers



### **Black Salve for cancers**



### Black Salve

### Claims

- "it 'finds the cancer, pulls out only cancer cells, doesn't react to healthy skin cells."
- "It's a proven alternative to surgery/chemo/radio tx."
- "If it reacts, it means you had cancer there."
- "It can treat internal cancers too."
- "Eschar = cure."

Source: Tiktok

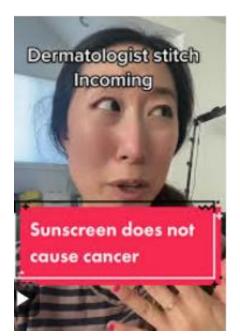
### Red Flag Language

- 1. "What your dermatologist won't tell you..."
- 2. "Big Pharma doesn't want you to know this cure."
- 3. "Heals from the inside out."
- 4. "Treat the root cause, not the symptom."
- 5. "100% natural = 100% safe."
- 6. "Clean, Chemical-free, toxin-free, risk-free."
- 7. "Ancient remedy used for thousands of years."
- 8. Buzz words: Detox, balance,
- 9. "You don't need a diagnosis, you need a reset."
- 10. "Everything starts in the gut."
- 11. "Detox your liver."
- 12. "You can't heal skin until you clean your blood."
- 13. "This herb/oil/salve was banned because it works."

### Red Flag Language

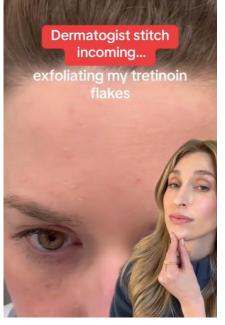
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## Solutions?





### Stitch Videos



- A "stitch" is when you take part of someone's video and add your own clip after it.
- Doctors and scientists are using this to fact-check, educate and debunk SM misinformation.

Wellness Experts (fitness coach, dieticians, nutritionists)

Alternative Medicine
Practitioners (homeopathic doctors, ayurveda)

Wellness Experts (fitness coach, dieticians, nutritionists)

HCPs (non derms, non-specialists, out of specialty)

Alternative Medicine
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Derm specialists (most concerning)

HCPs (non derms, non-specialists, out of specialty)

Alternative Medicine
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Brought to light by other experts and cosmetic — chemists

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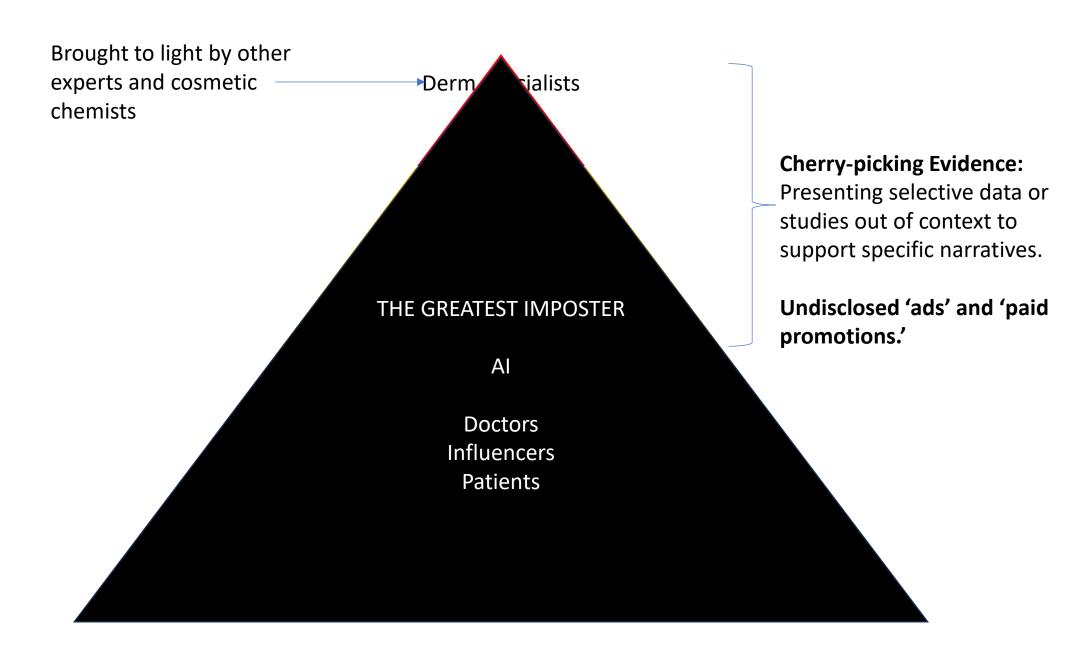
Alternative Medicine
Practitioners (homeopathic doctors, ayurveda)

**Cherry-picking Evidence:** 

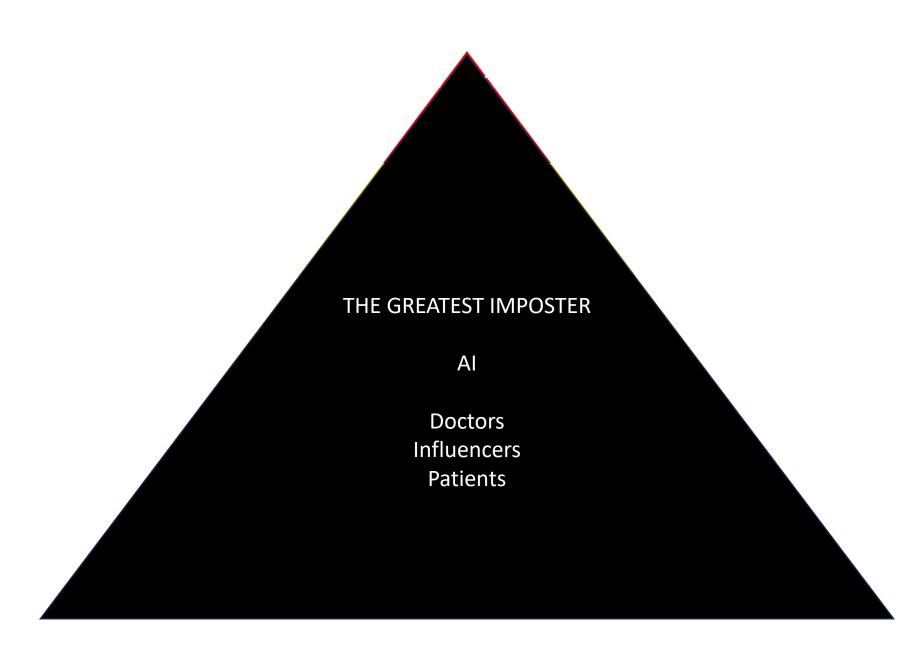
Presenting selective data or studies out of context to support specific narratives.

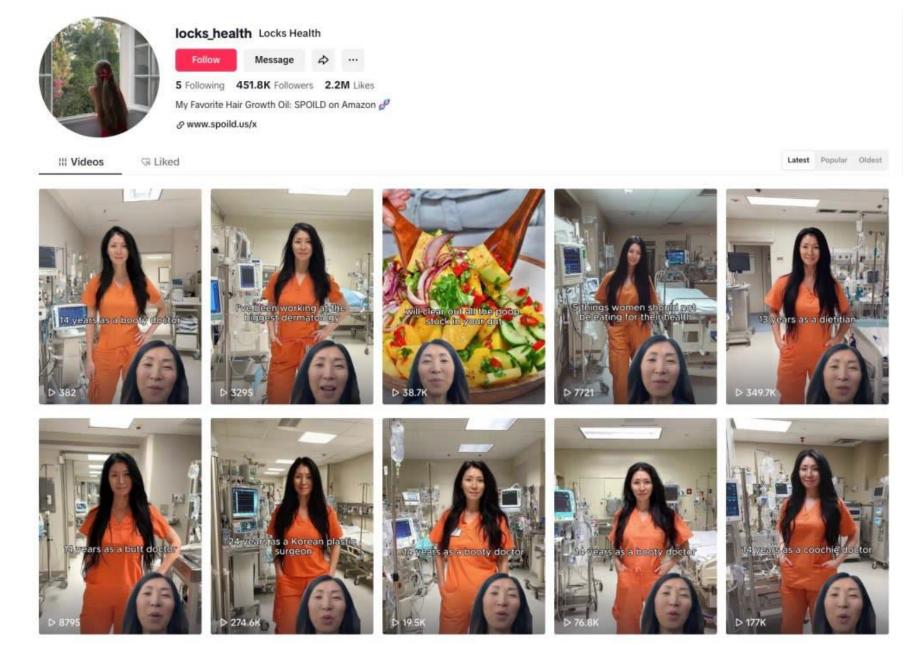
Undisclosed 'ads' and 'paid promotions.'

Wellness Experts (fitness coach, dieticians, nutritionists)

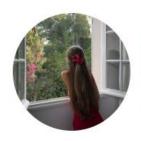


### **Generative AI tools to create deepfake videos**





Source: https://www.aol.com/ai-generated-doctors-duping-tiktok-163532021.html



#### lockshealth Locks Health

2 Following 366 Followers 1135 Likes

My Favorite Hair Growth Oil: SPOILD on Amazon 🥠

III Videos

∠lked

















Latest Popular Oldest















Source: Tiktok.com Account active as of 01-04-2025



III Videos

∠lked















Latest Popular Oldest











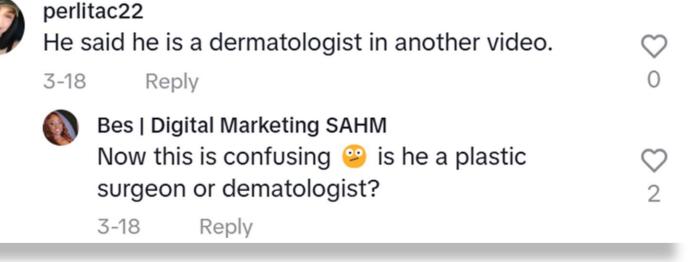


Source: Tiktok.com Account active as of 01-04-2025 Calls himself a plastic surgeon with 13 years of experience.

• Claims: Ice water cures acne scars, 'snatches' jawline and reduces facial fat.

Batana oil will reverse greying of hair and increase hair growth by

97%.



### Call to Action

- Social media isn't the enemy; silence is.
- We have to meet our patients where they're listening.
- WHO's "Stop the Spread" initiative combats online health lies.

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- Social media isn't the enemy; silence is.
- We have to meet our patients where they're listening.
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# Thanks!



www.dralpana.com @dralpanamohtaranka @Dr Alpana Mohta @dralpanamohta &dralpanamohta