

# Disclosures and Acknowledgments

- The authors Sabreena Moosa and Isabel Thomas have no conflict of interest to declare for this study. The author Dr. Darren de SA discloses positions as a board member at Heron Therapeutics, consultant at LEK Consulting, Atheneum Partners, Stryker, working group member at Pendopharm, and has received payment for lectures at Conmed Linvatec.
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#### Introduction



Anterior cruciate ligament (ACL) tears are one of the **most** common injuries

Patients who are young or sustain sports-related injuries

→ more likely to engage with social media for health info

Social media can influence **patient expectations** and in turn recovery.

There is a paucity in data evaluating **who is posting on social media** and the **content** of recovery-related information.





# Objective

to analyze **posts related to ACL recovery** across **four social media platforms**: Facebook, Instagram, Twitter and TikTok



### Methods

Key terms and hashtags including "acl recovery", "acl rehab", "acl journey" and "acl rehabilitation"

to identify groups or posts across social media platforms.

Posts with the most engagement from each platform including Facebook, Instagram, Twitter and TikTok were collected.

#### Data extraction:

- identifying characteristics of the poster
- topic of posts
- tone of posts



#### Methods

#### Post collection:



The most recent posts from Facebook groups with at least 2000 members (n=95) were collected from 20 June 2022 to 7 July 2022.



Instagram posts with at least 1000 likes (n=207) were collected from 18 May 2021 to 20 June 2022.



Posts were collected from Twitter with at least 50 likes (n=116) from 6 February 2013 to 24 Jun 2022.

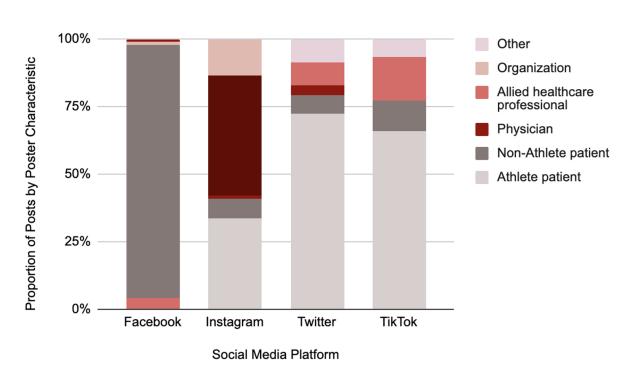


TikTok videos with at least 10,000 likes (n=88) were collected for each of the hashtags from 2 March 2020 to 30 May 2022.



## Results

Fig 1: Poster characteristics across social media platforms



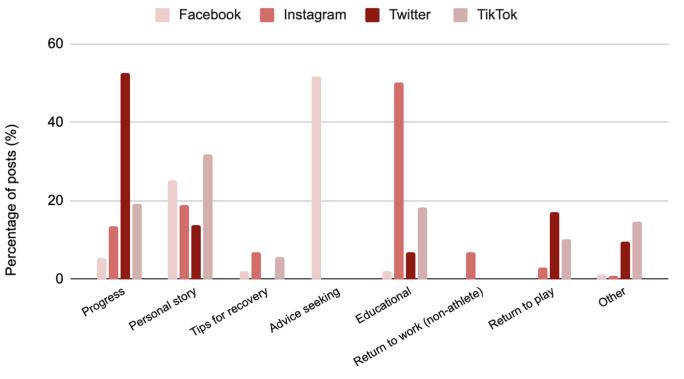
Poster characteristics across social media platforms varied:

- More posts from athlete patients on Twitter and TikTok
- More posts from from nonathlete patients on Facebook
- Allied healthcare posters found more often on Twitter and TikTok



## Results

Fig 2: Topic of posts across 4 social media platforms



Topic of posts across social media platforms varied:

- More progress and personal stories on Twitter and TikTok
- More posts advice-seeking on Facebook
- More educational on Instagram



# Results

Platform	Most Common poster characteristics		Most common content theme
Facebook	Female	Non-Athlete	Advice-seeking
Instagram	Male	Allied Health Professionals, Athlete	Educational
Twitter	Female	Athlete	Progress of ACL recovery
TikTok	Female	Athlete	Personal stories

Physicians were more likely to post on Twitter and Instagram, with no posts on Facebook or TikTok.



### Discussion

- Topics and populations engaging with content related to ACL recovery varied across the social media platforms.
- Advice-seeing, educational, progress and personal stories were main themes of posts.
- Previous studies found seeking information can aid assuage patients' doubts but only if information is accurate.
- Physician presence was not found on Facebook and TikTok: this could be limited by search criteria, regulatory bodies, platforms searched.
- Further investigation is needed:
  - What physicians are posting
  - Who is engaging with posts in the form of comments, etc
  - Further insight into what patients would like to see on social media related to ACL recovery



#### These findings provide insight into:

What information is available to, and posted by patients and those involved in patient care

How providers can engage with patients on social media

How to begin to understand the current role of social media as a communication tool for ACL recovery



# THANK YOU.

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**MACORTHO** 

#### References

- Webster KE, Feller JA, Whitehead TS, et al. Return to Sport in the Younger Patient With Anterior Cruciate Ligament Reconstruction. Orthop J Sports Med 2017; 5: 2325967117703399. 20170425. DOI: 10.1177/2325967117703399.
- Armento A, Albright J, Gagliardi A, et al. Patient expectations and perceived social support related to return to sport after anterior cruciate ligament reconstruction in adolescent athletes. Phys Ther Sport 2021; 47: 72-77. 20201104. DOI: 10.1016/j.ptsp.2020.10.011.
- Williams T, Evans L, Robertson A, et al. The Role of Optimism and Psychosocial Factors in Athletes Recovery From ACL Injury: A Longitudinal Study. Front Sports Act Living 2020; 2: 116. 20201002. DOI: 10.3389/fspor.2020.00116
- Haeberle HS, Bartschat NI, Navarro SM, et al. Hip Arthroscopy: A Social Media Analysis of Patient Perception. Orthop J Sports Med 2019; 7: 2325967119854188. 20190618. DOI: 10.1177/2325967119854188.
- Christino MA, Fleming BC, Machan JT, et al. Psychological Factors Associated With Anterior Cruciate Ligament Reconstruction Recovery. Orthop J Sports Med 2016; 4: 2325967116638341. 20160323. DOI: 10.1177/2325967116638341.

