



Student-Athlete Mental Health: A Content Analysis of TikTok

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INTRODUCTION

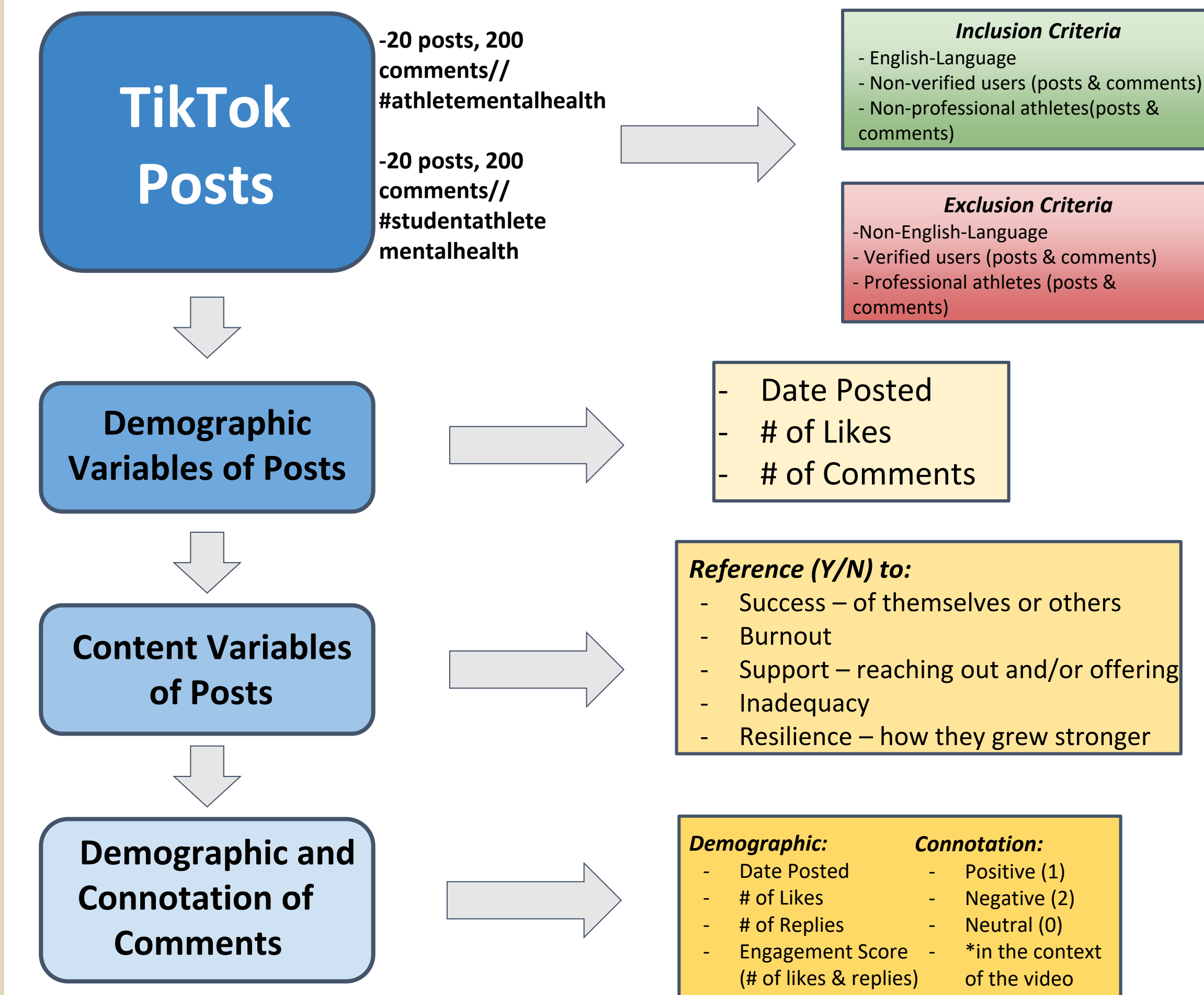
- There is about 8 million high school athletes and 480 thousand collegiate athletes in the USA.
- 95% of male and 85% of female athletes report higher stress compared to 52% of non-athlete students
- The mental health stigma in sports often deters people from expressing their emotions, which results in suppressing them.
- Although some people use social media to highlight their successes, others seek support from the online community.
- While they may motivate some to surpass their competitors, these posts may contribute to deteriorating others' mental health: including responses such as feelings of inadequacy and isolation, depression and anxiety, and self-absorption and burnout.

The purpose of this study is to analyze how student-athletes' TikTok posts about mental health affect other student-athletes.

METHOD

A). Content Analysis

- Posts selected from TikTok through an advanced search using #athletementalhealth and #studentathletementalhealth hashtags
- Post text verbatim (captions and comments), references to mental health, and demographic variables were collected



B). Data Analysis

- Descriptive statistics used to calculate prevalence of codebook variables
- ANOVA used to compare engagement score between the 3 types of comments
- Chi squares used to compare posts' content variables with comment connotation

RESULTS

1). Overall Demographics

- 40 total posts analyzed
 - 20 posts from #athletementalhealth
 - 20 posts from #studentathletementalhealth
- 393 total comments analyzed
 - 200 from #athletementalhealth
 - 193 from #studentathletementalhealth
 - 7 comments omitted due to lack of text (i.e., only usernames)

	Range	Minimum	Maximum	Mean	Std. Deviation
# of Likes	228357	83	229200	25682.9	2501.158
# of Comments	2212	8	220	20.78	403.161

2). Posts and Comments

Fig 2.1: % and N of TikTok Posts Referencing Success, Burnout, Support, Inadequacy, Resilience

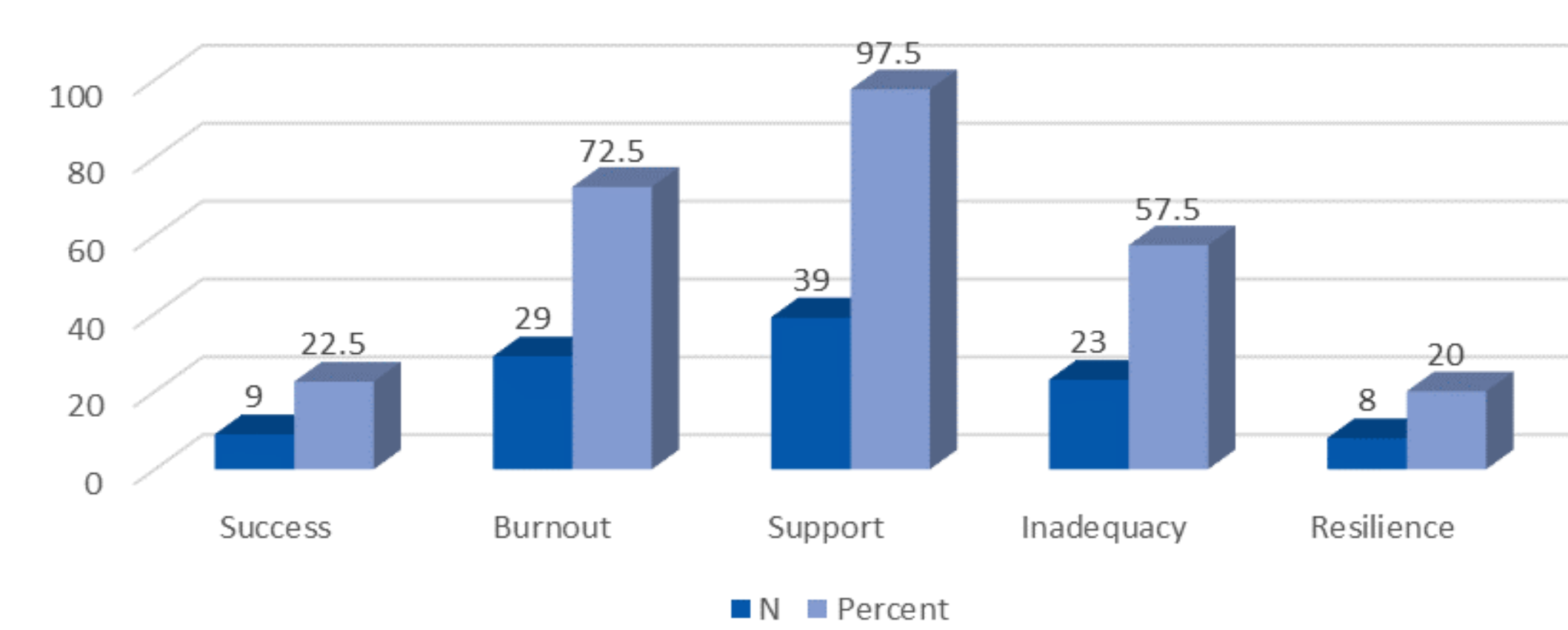
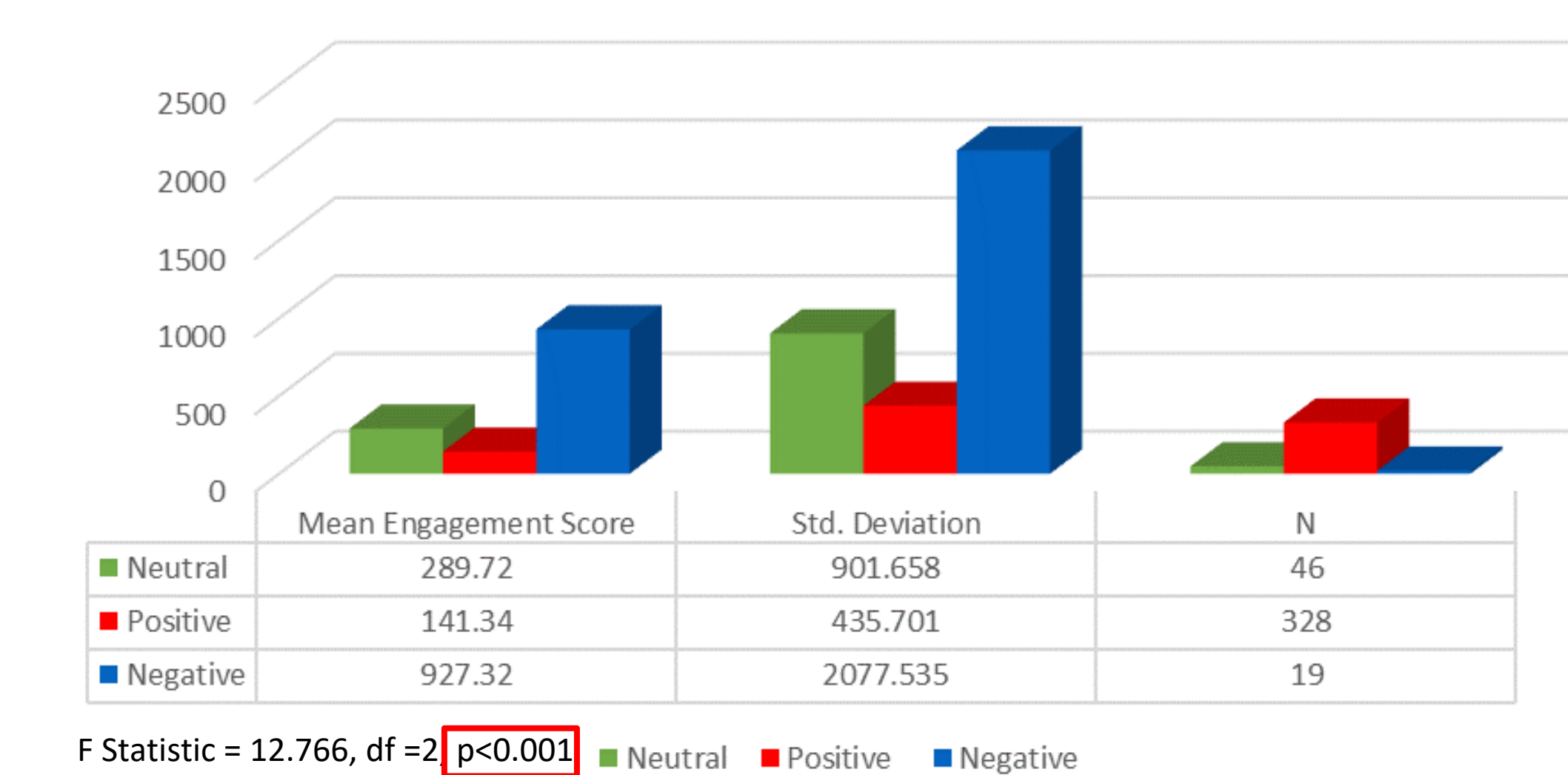


Fig 2.2: Mean Engagement Score, Std. Deviation, N of Neutral, Positive, Negative Comments



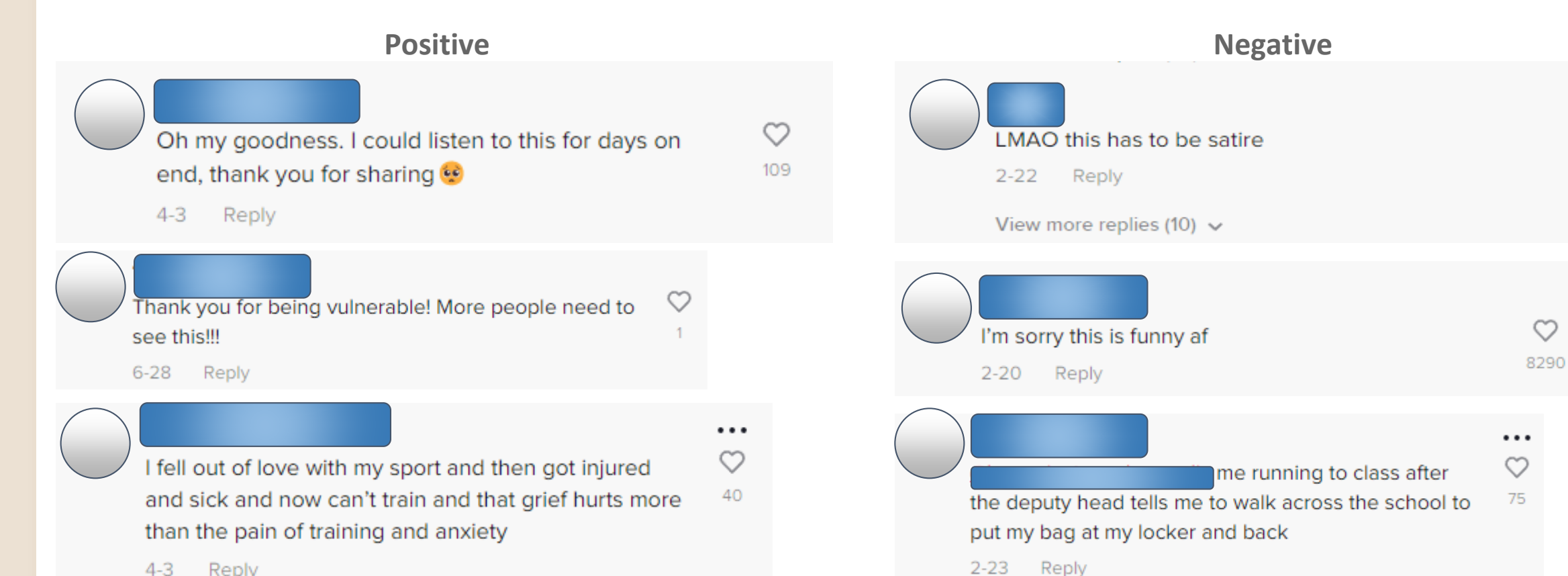
Posts *most frequently* referenced **support** (39, 97.5%) and *least frequently* referenced **resilience** (8, 20%). (Fig 2.1)

While **negative comments** were *least common*, they received the **highest engagement score**, although also having the **highest std. deviation**. (Fig 2.2)

Although **positive comments** were the *most common*, they received the **lowest engagement score**, although having the **lowest std. deviation**. (Fig 2.2)

RESULTS

Sample Comments



LWIC was avoided during comment analysis because particular keywords – ex: injured, sick, grief – and phrases – ex: can't train, hurts more – may result in misinterpreted comment connotation in relation to the post

3). Post-Comment Comparison

Fig 3.1: Positive, Negative, or Neutral * Video Mentions Support Cross Tabulation

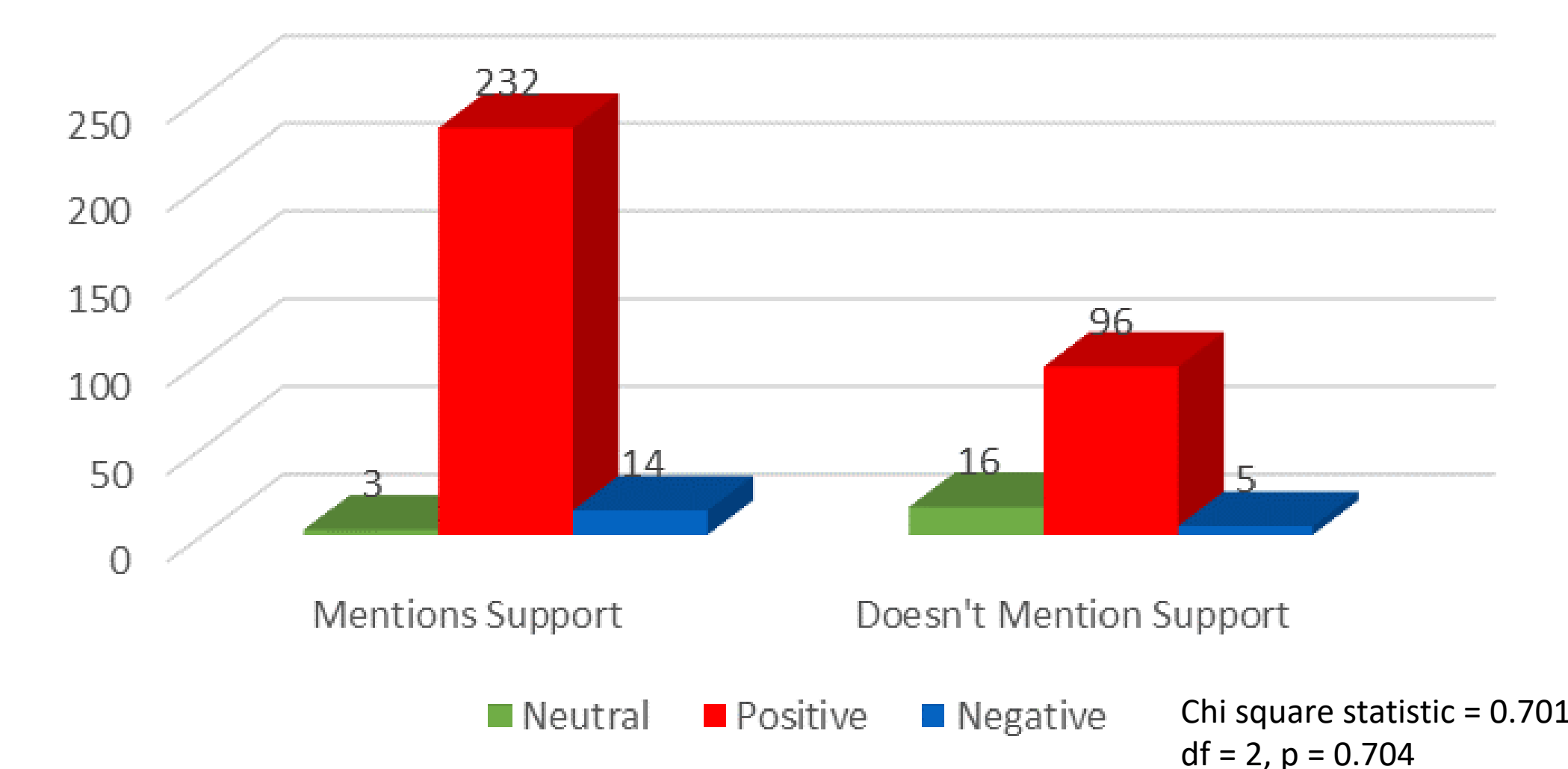
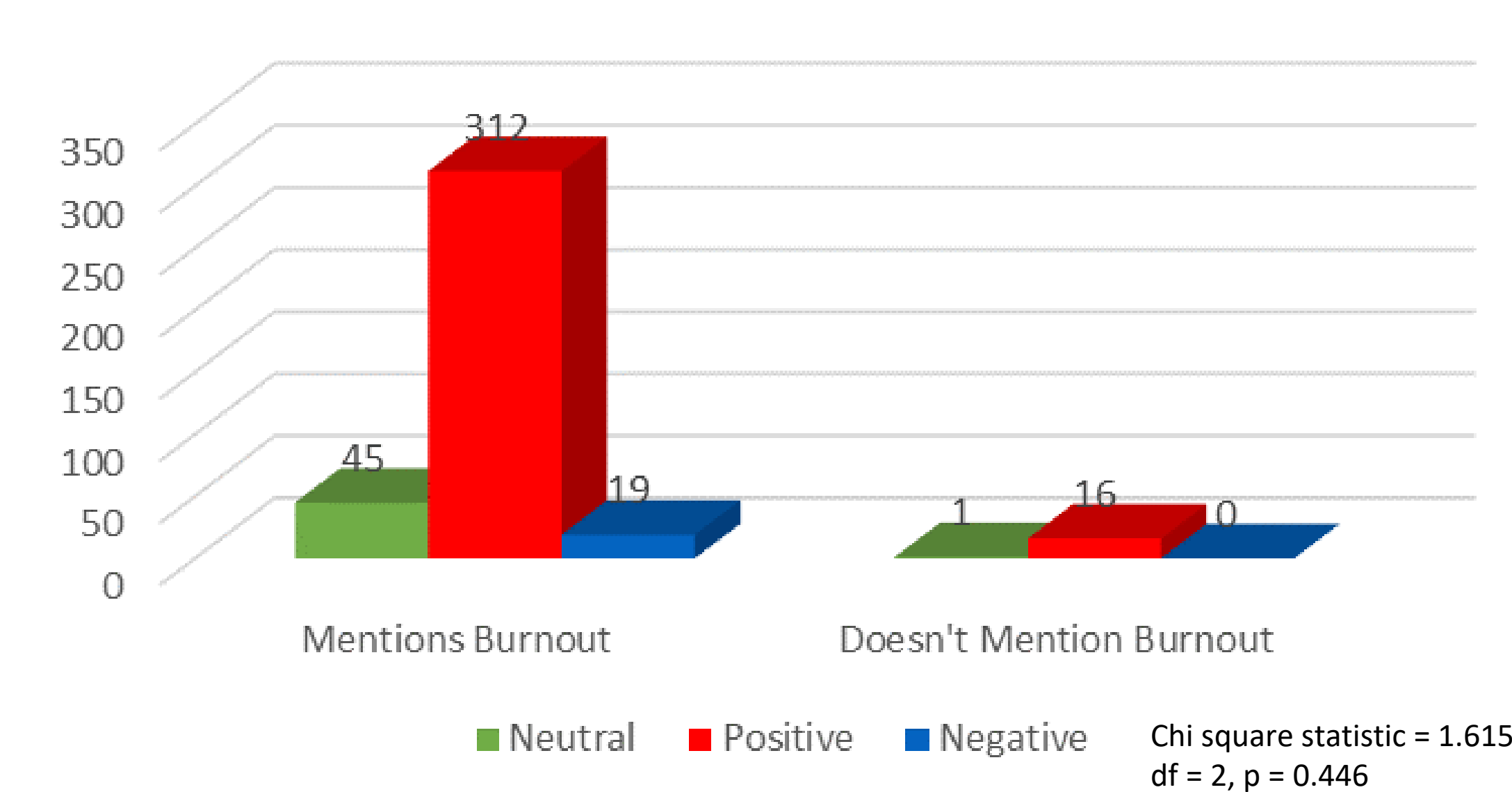


Fig 3.2: Positive, Negative, or Neutral * Video Mentions Burnout Cross Tabulation



Positive comments were the *most common* in posts that did or did not mention support or burnout (Fig 3.1, 3.2). However, both Chi square analyses yield a **p > 0.05** (p = 0.704 & p = 0.446), indicating **no effect was observed**. (Fig 3.1, 3.2)

CONCLUSIONS

Main Findings

- Support** was the **most common** variable in posts
- There was a **significant difference** between the average engagement score on positive, negative, and neutral comments. **Negative comments** had the **highest engagement score**, and **positive comments** had **lowest engagement scores**.
- There was **no difference** in the proportion of positive, negative, and neutral comments on videos that **mentioned burnout** compared to videos that **did not mention burnout**.
- There was **no difference** in the proportion of positive, negative, and neutral comments on videos that **mentioned support** compared to videos that **did not mention support**.

Limitations & Further Research

- Limitation: TikTok Algorithm:**
- Unique "For You Page", difficult to reproduce
 - Exposure from previous posts may affect current attitude and perception
 - Increased accuracy from larger sample
 - Values and sensitivity differences among multiple people may yield different results
- Further Research:**
- Analyze replies to positive, negative, and neutral comments
 - Conduct study with verified users
 - Increase sample size

Context & Implications

- Context**
- Mental health is often misinterpreted as a minor excuse and neglected
 - Associated with weakness, quitting, losing, often causing emotional suppression and/or backlash
 - 21st century's growing cancel culture has caused negative, conflicting attitudes and/or values to be prone to public shaming
- Implications**
- Negative comments received the highest engagement score because potentially, it attracts cancel culture more than negative comments
 - TikTok's platform is geared towards entertainment as opposed to serious topics

ACKNOWLEDGEMENTS

Thank you to Mariana Guerrero and my fellow scholars for facilitating this research study and their invaluable feedback

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