

The Impact of COVID-19 Pandemic Social Distancing Policy on Immune Responses of Domestic Violence Victims in Indonesia

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"Social isolation, social stress, increased stress that could affect psychological resilience, low economic status, and Early Life Adversities (ELA) could affect domestic violence victims immune system."

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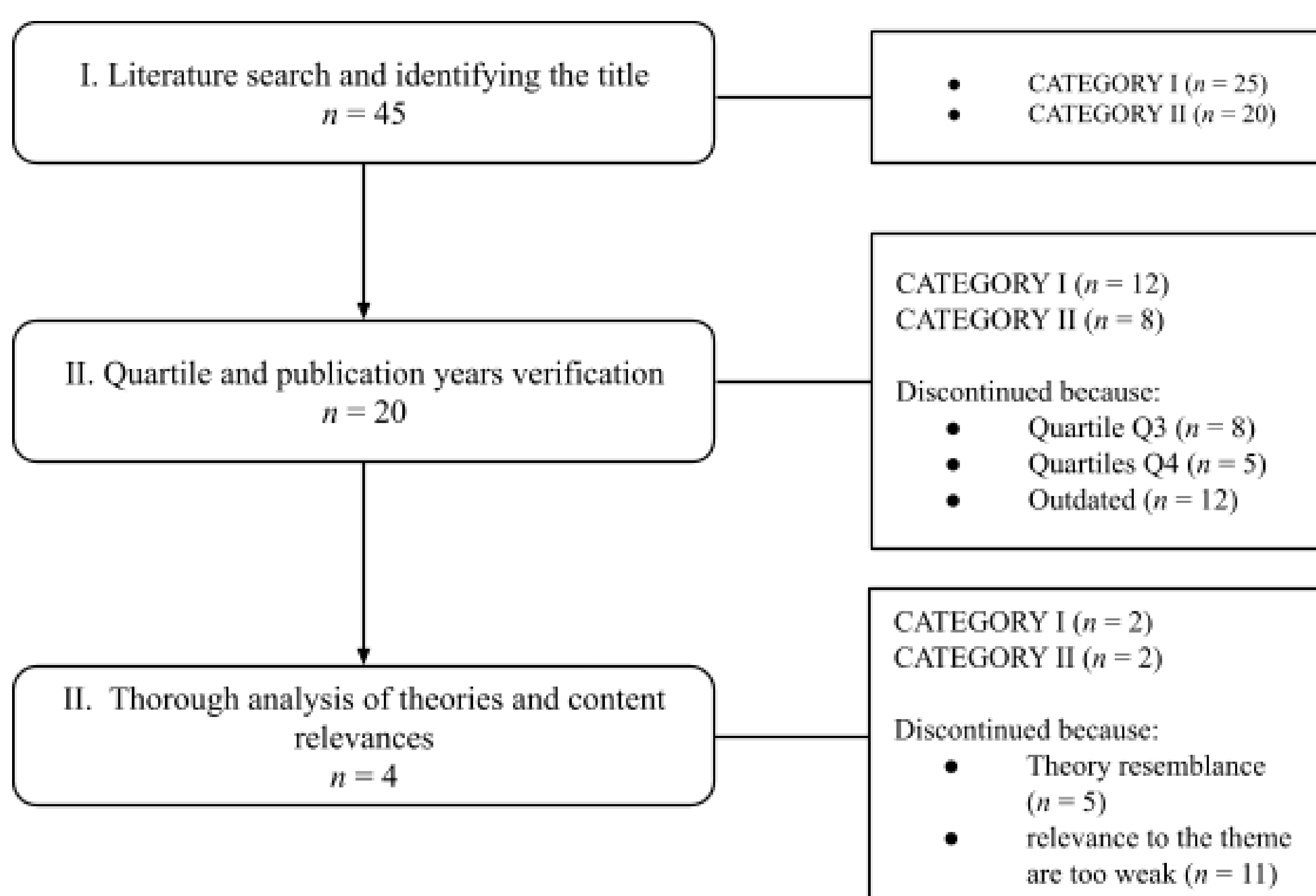


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INTRODUCTION

- Based on the Indonesian Child Protection Commission Report (2021), child protection cases based on family clusters and alternative care during the pandemic experienced a **higher increase than the previous year, from 896 to 1622 cases in 2020.**
- A study on SARS, MERS, and SARS-Cov 2 shows that **14 to 61% of infected people face serious psychological and neuropsychiatric problems** during their illness, and 14.8 to 76.9% had these problems after that (Rogers et al., 2020).
- SARS-CoV-2 receptor, which is **angiotensin-converting enzyme 2 (ACE2)** (Danese & McEwen, 2012), is known to have a **pleiotropic role in the stress response and mood regulation (Vian et al., 2017).**
- The acute phase of C reactive protein (CRP) has been widely reported in children experiencing psychosocial abuse (Danese & McEwen, 2012).

METHOD



The screening procedure was divided into three stages:

1. Searching for information with specific search criteria and strategies
2. Verifying the quartile and year of publication of the articles,
3. Analyzing the theory from each category and screening the articles that contain the most substantial arguments and relevance.

Obtained articles were divided into two categories: articles with relevant criteria to this study's topic and published before the COVID-19 pandemic (CATEGORY I), and the articles that were published during the COVID-19 pandemic (CATEGORY II).

DISCUSSION

- Children with proper care and support from adults who provide a **constant feeling of security and love** would automatically help the child's body quickly return to the level of physiological function without further damage (Araújo et al., 2020).
- Social isolation, social stress, and low socioeconomic status** could activate the conserved transcriptional response to adversity (CTRA), causing individuals to become more susceptible to viruses due to impaired antiviral immune responses (Santos R.M, 2020).
- Chronic psychological stressors could increase the risk of getting the flu** for those who are exposed to the flu virus caused by chronic stress, causing immune cells to become insensitive to cortisol (Dantzer et al., 2018).
- Children and adults exposed to ELA have a more severe risk of exposure to the COVID-19 virus due to **higher CRP levels and IL-6 cytokine levels** than people in general.

RESULTS



Triggering Factors from COVID-19 Pandemic Social Distancing Circumstances

- Social isolation
- Social stress
- Increased stress that affect psychological resilience
- Low socioeconomic status
- ELA



Domestic Violence Victim

Triggers CTRA Activation, increasing CRP and IL-6 Cytokine level and decreasing sensitivity to cortisol.



The Impact on the Health of Domestic Violence Victims

Victims become more vulnerable to the COVID-19 virus and have a higher risk of experiencing more severe disease.

Conceptual model of how triggering factors from COVID-19 pandemic social distancing circumstances affect the health of domestic violence victims. (Early Life Adversities [ELA], Conserved transcriptional response to adversity [CTRA], C Reactive Protein [CRP]).

CONCLUSION

LIMITATIONS:

- The data on the effects of inflammation that affect the process of resilience to the immune system as evidenced under specific conditions (given stressors or injection of pathogen-associated molecular patterns).
- Data on direct evidence for the involvement of the SNS itself after ELA exposure is still not entirely clear.

FUTURE DIRECTIONS:

- Investigate further whether the effect of inflammation on the perception of difficulties faced could be generalized in other situations, especially with domestic violence victims who are surrounded by many potential stressors.
- Directly study domestic violence victims exposed to ELA to examine and clarify the SNS involvement.

