

# PROBLEMATIC INTERNET USES AND DEPRESSION IN ADOLESCENTS: A META-ANALYSIS

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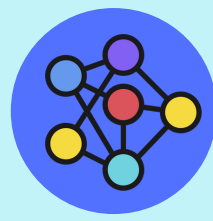
## INTRODUCTION



The addictive use of the Internet is related to various health problems



The relationship between addiction and depression is mixed



Support the need to understand the relationship between pathologies and social networks

## METHODOLOGY

Is there a relation of comorbidity between problematic-addictive use of the Internet and depression in adolescents? meta-analysis



- Search strategy
- Instruments used to measure both problematic Internet use and depression

| Author               | Problematic use instrument   | Depression instrument  |
|----------------------|--|--|
| El-Asam et al.       | Problematic Internet Use (PIUQ)  | Patient Health Questionnaire 9 (PHQ)                                       |
| Woods & Scott        | Social Integration and Emotional Connection subscale of the Social Media Use Integration Scale | Hospital Anxiety and Depression Scale                                      |
| Walburg et al.       | Internet Addiction Test (AIT)  | Center for Epidemiologic Studies Depression Scale (CES-D)                  |
| Sami et al.          | Internet Addiction Test (AIT)  | Center for Epidemiologic Studies Depression Scale (CES-D)                  |
| Colder-Carras et al. | Video Game Addiction Test (VAT)  | Depressive Mood List   |
| Banjanin et al.      | Young Internet Addiction Test, designed by the authors   | Center for Epidemiologic Studies of Depression Scale for Children (CES-DC) |
| Kircaburun et al.    | Ten-item Internet gaming disorder test (IGDT-10)   | UCLA Loneliness Scale-Short form (ULS-4)                                   |
| Jun                  | KCYPS  | Korean Manual of Symptom Checklist   |
| Chang et al.         | Chen Internet Addiction Scale (CIAS)   | Center for Epidemiologic Studies Depression Scale (CES-D)                  |
| Lin and others       | Chen Internet Addiction Scale (CIAS)   | Ko's Depression Inventory  |
| Zhang et al.         | Beard's Diagnostic Questionnaire for Internet Addiction  | Self-Rating Depression Scale (SDS)   |
| Gámez-Guadix et al.  | Generalized Problematic Internet Use Scale 2   | Brief Symptom Inventory  |
| Oberst et al.        | Questionnaire of experiences related to mobile phone use (CERM)                                | Self-report Hospital Anxiety and Depression Scale (HADS)                   |

## RESULTS

### Search Strategy

19 samples in 13 selected studies comprised a total of 33,748 individuals (n=33.748)

12 - 18 years old ( $\mu=15,68$ )

different cultures and continents (Europe, Euro-Asia, America and Asia)

### Statistical Analysis

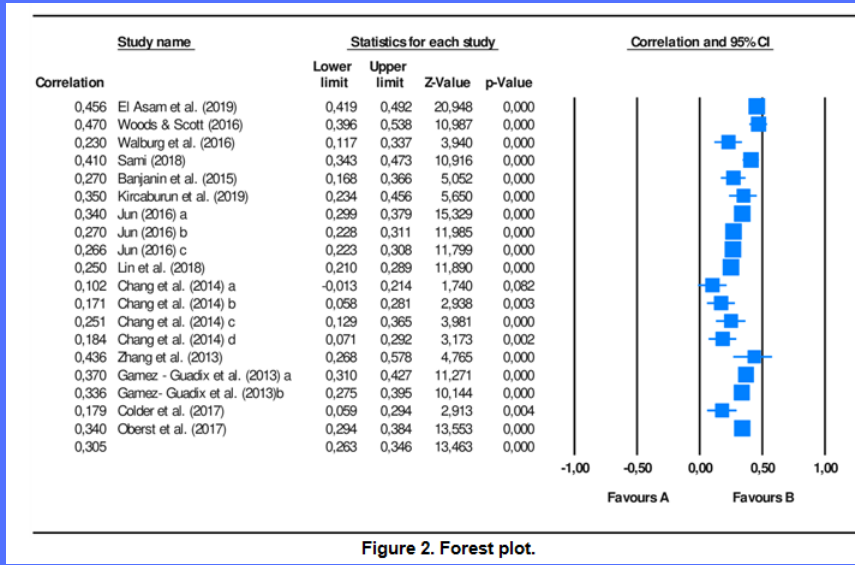


Figure 2. Forest plot.

## CONCLUSIONS



There was a consensus among most of the studies, indicating that there was a significant and positive correlation between problematic Internet use and depression in adolescents



Correlation between pathologic uses of the Internet and depression. Moreover, meta-regression test results showed that 9% of the variance ( $R^2=0.09$ ) is associated with the male gender

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