

## ملخص البحث الثاني

(بحث فردي منشور محلي – غير مشتق من رسالة علمية)

### State-of-the-art in how students' health and the educational process are affected by e-learning during the COVID-19 pandemic in Fayoum governorate, Egypt

Dr. Asmaa Younis Elsary, Dr. Heba Hasan Safar

**Background & objectives:** Studies on E-learning effects on students' health, including gender differences, are rare, particularly for young children during the Covid-19 pandemic. This study sought to determine how students' health and the educational process affected by E-learning during the COVID-19 pandemic.

**Patients and Methods:** An analytical cross-sectional survey was carried out during November 2022. Some primary, preparatory, and secondary school children aged between 6 and 18 years old were included. Online survey (a Google form) was created in Arabic and posted on social media (Facebook and Whats App). There were four sections totaling 24 items on the online survey.

**Results:** Passive effect existed on secondary school students' behavior and mood, as well as an increase in sleep and appetite disorders in contrast to primary school students' levels of self-confidence which were passively changed, and a significant decline in infection rates was observed. The majority of parents thought that traditional learning was necessary in addition to E-learning in the educational process because it reduced the likelihood of infection.

**Conclusion:** The COVID-19 pandemic dangers may have been avoided with the use of E-learning education, but it also has additional negative effects on appetite, sleep, mood, and behavior. Additionally, it has lower success rates particularly in developing nations.

**Keywords:** Children; Covid-19; E-Learning; Health; Pandemic.

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عميد الكلية

أ.د. حمدي ابراهيم

رئيس القسم

أ.د. وفاء يوسف