



AI-Powered Insight for Mental Health: Bridging Gaps in Crisis Response



Abstract

Infermedica's AI-powered virtual triage (VT) tool played a key role in identifying the mental health impact of the ongoing Russia-Ukraine war. The study, analyzing encounters from Ukrainian, Polish, and Italian users, revealed significant increases in mental health symptom reporting among those directly or indirectly affected by the conflict. The findings highlight the effectiveness of VT in detecting emerging mental health challenges and improving care referrals during times of crisis.

Key findings

Mental Health Impact:

Ukrainian users reported an 11.6% rise in mental health symptoms (MHS) post-conflict onset, including a 158.7% increase in suicidal thoughts, and significant spikes in sleep disorders and anxiety. Polish users saw a smaller increase (3.7%), while Italian users showed no significant change.

Demographic Trends:

Women reported higher levels of depression and irritability, while men noted more anxiety and fear of dying. Older populations experienced notable increases in agitation and sleep disturbances.

Virtual Triage Effectiveness:

The AI-powered tool successfully detected and tracked mental health trends during the war, demonstrating its ability to support crisis-affected populations and facilitate care referrals.

Impact & opportunities:

- ✓ **Scalability:** Bridged healthcare gaps for displaced and vulnerable populations.
- ✓ **Real-Time Crisis Detection:** Identified significant mental health symptom increases during conflict.
- ✓ **Future-Ready Healthcare:** Informed strategies for crisis and emergency response.

Conclusion

Infermedica's virtual triage tool proved to be a vital resource in detecting mental health challenges during the Russia-Ukraine war. By identifying symptom trends and facilitating care referrals, it showcased the potential of AI-driven solutions to enhance crisis healthcare and support vulnerable populations effectively.

[Read the full study](#) and [contact Infermedica](#) to learn more about our AI-powered virtual triage.