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Post-Traumatic Stress Disorder: Past, Present & Future

Speaker Information Form

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Speech Title	AI applications for PTSD, current and future perspectives.
Abstract:	<p>Posttraumatic Stress Disorder (PTSD) remains a highly heterogeneous condition, with varied symptom profiles and treatment responses across individuals. Recent advances in artificial intelligence (AI) and machine learning offer new opportunities to address these challenges. Current applications include the use of predictive algorithms to identify individuals at risk, natural language processing to detect trauma-related patterns in speech and text, and digital phenotyping through wearable sensors to monitor physiological markers of stress. AI is also being integrated into computational psychiatry models, enabling more precise characterization of the neurobiological and psychosocial mechanisms underlying PTSD. Looking forward, future perspectives emphasize the development of personalized treatment strategies, including AI-assisted psychotherapy, adaptive mobile health interventions, and integrative models combining neuroimaging, genetics, and behavioral data. Ethical considerations, such as privacy, transparency, and equitable access, remain crucial for implementation. By bridging neuroscience, psychiatry, and digital technologies, AI holds promise to transform PTSD diagnosis, prognosis, and treatment, contributing to more effective and individualized mental health care.</p>

