

Innovative Research Program on Suicide Countermeasures in FY2022: Report on Commissioned Research Results

Field 3: Suicide countermeasures using big data, AI, etc.

Topic number : R4-3-4

Research topic:

Big data analysis and construction of a new training system aimed at training gatekeepers of drug overdose: Prevention of drug overdose based on local pharmacies as a base for “awareness” and “attentive hearing”

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Summary:

In the first year of this project, we evaluated the product toxicity of OTC drugs in the database newly constructed by the principal investigator for drugs used for overdose. In addition, this database is open to the public with a registration system in consideration of safety. We aimed to support activities as a gatekeeper by having pharmacists, registered sellers, and other medical professionals make extensive use of it (<https://overdose-med.com/>). Investigations of the database revealed that more than 1,200 products would be lethal to humans if the entire package was overdosed, and more than 2,900 products corresponded to the toxic dose. In addition, two lectures were given as part of gatekeeper education for pharmacists. The database constructed in this research is expected to be used as a tool in activities as a gatekeeper against drug overdose and suicide.