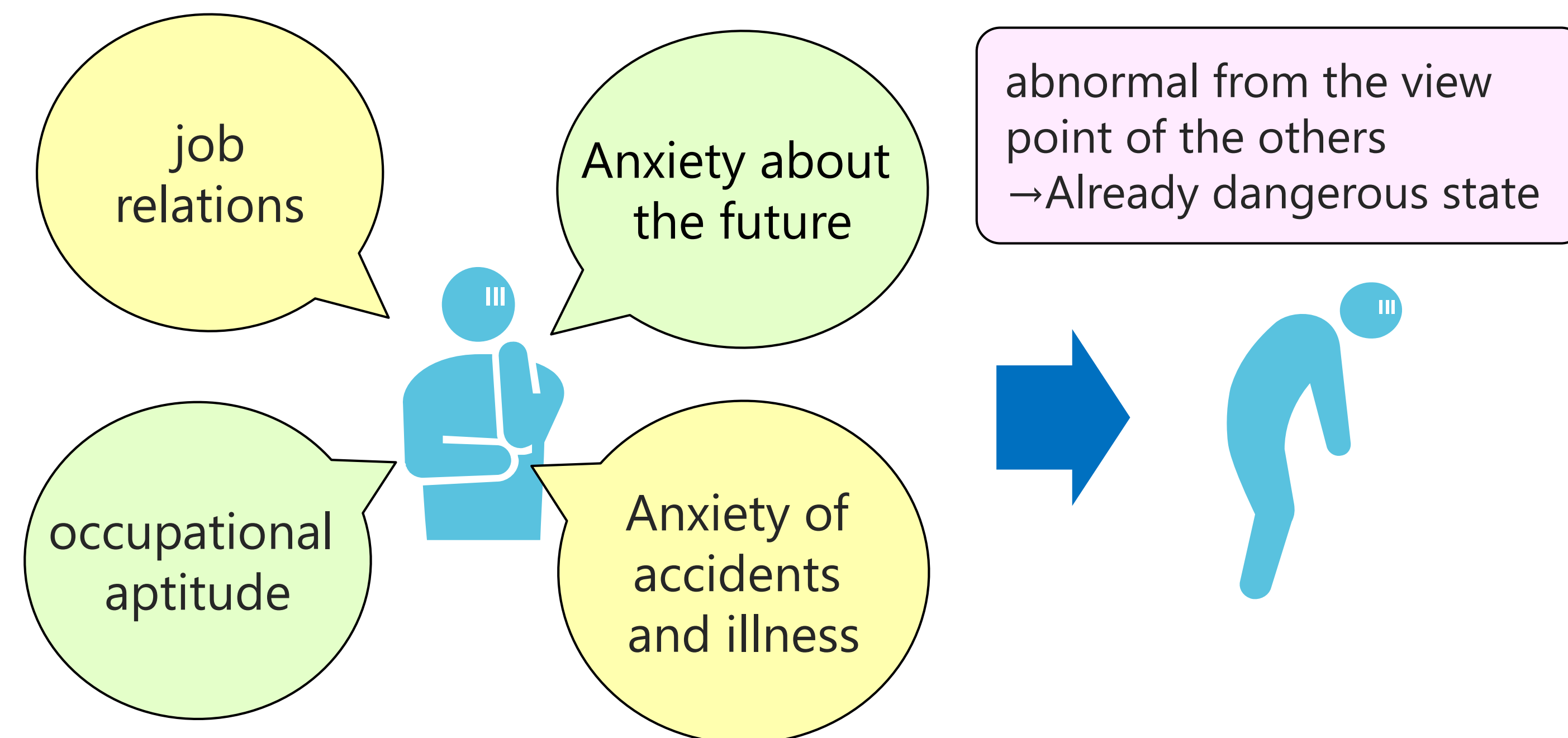


MIMOSYS[®] Mind Monitoring System

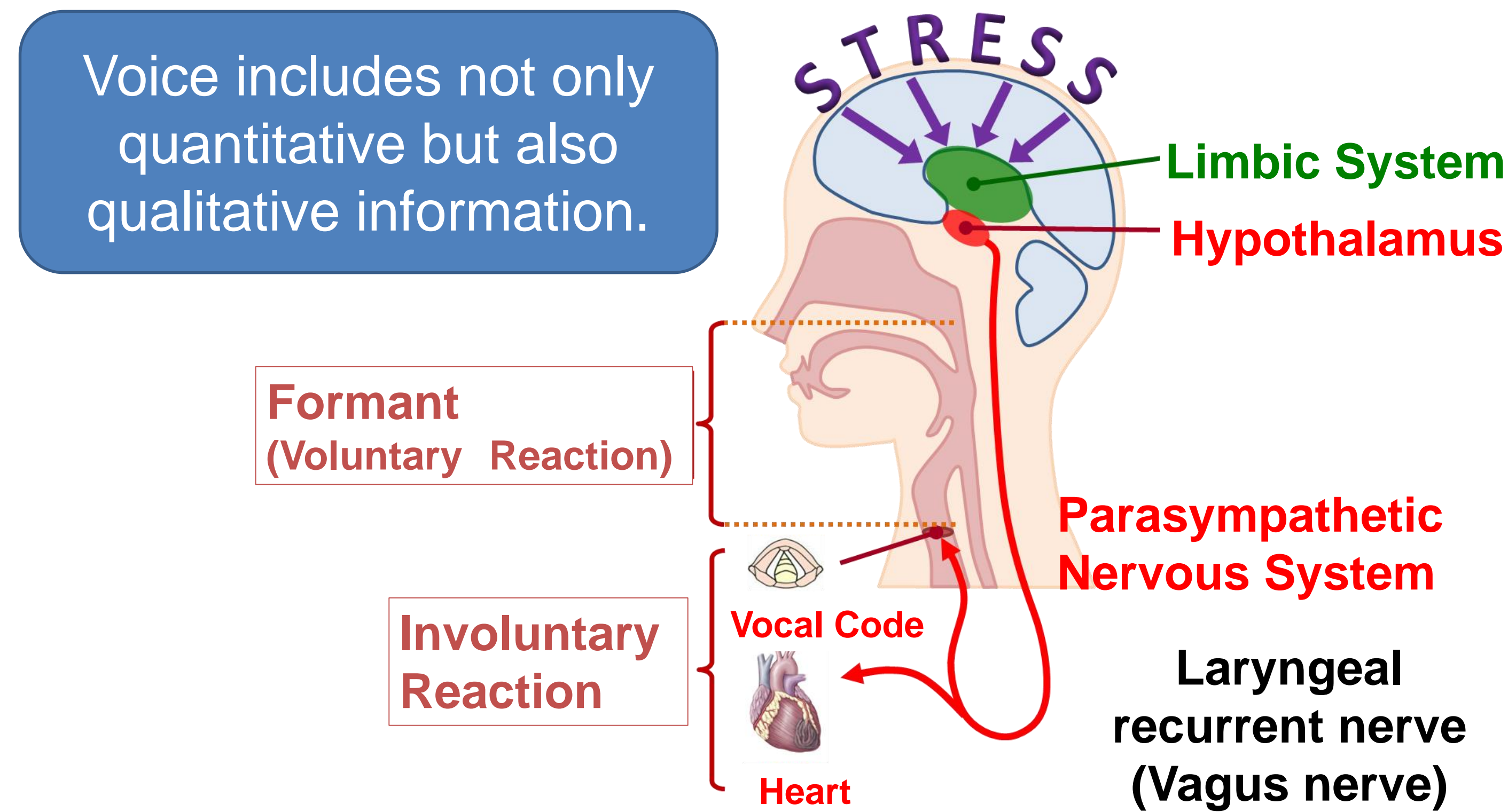
Background



Mechanisms of Mental Disorders

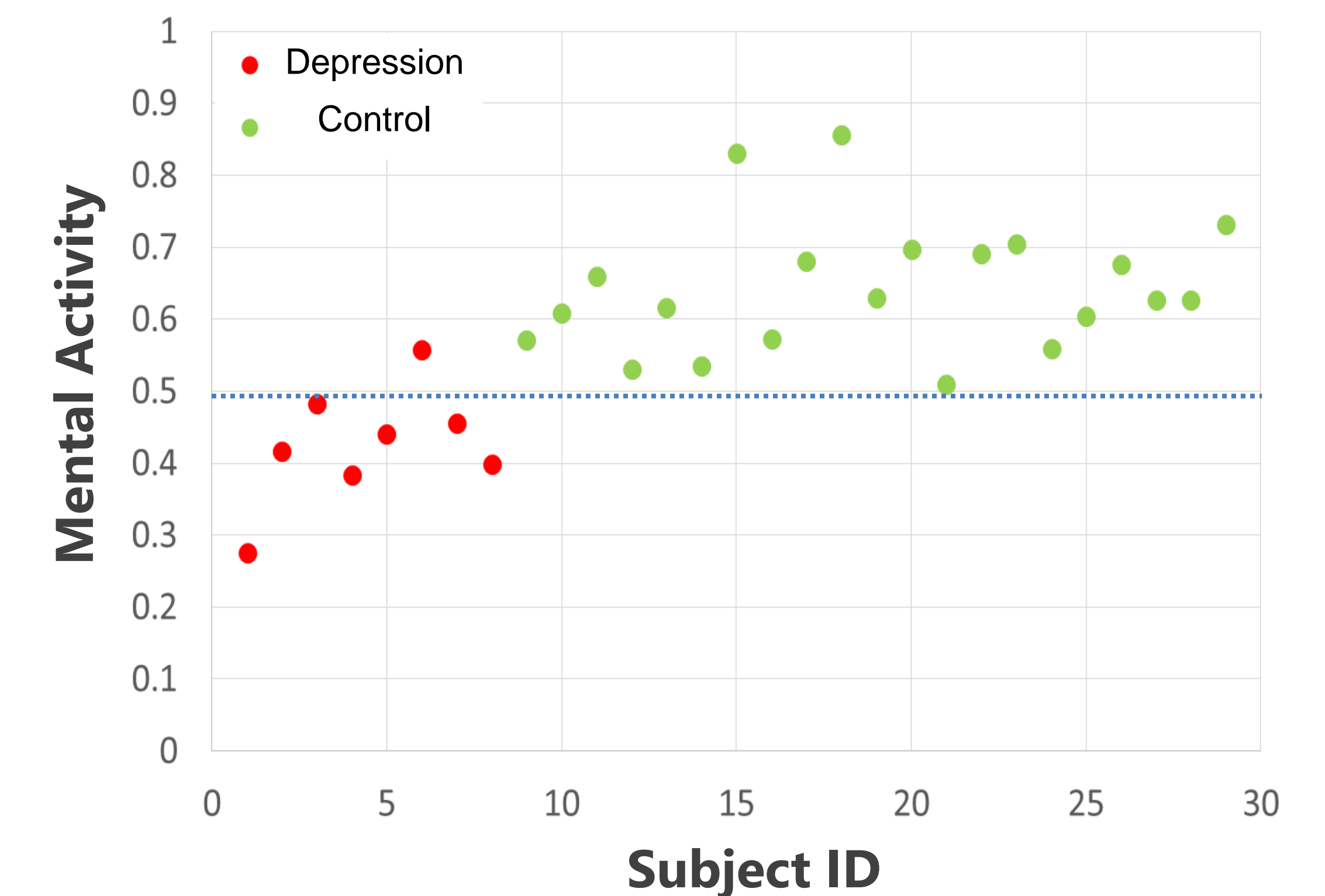
Mental health disorder has become a problem in many developed countries and in order to cope with it, a screening technologies that help us to check depression and stress have been sought.

Stress Check using voice



The vocal cords are innervated by motor nerves and parasympathetic nerves, hence voices include voluntary and involuntary elements. Voices change due to various diseases. Voice pathophysiology analysis is an objective method to measure the involuntary elements of voices changed by illness.

MIMOSYS Accuracy



MIMOSYS was able to separate patients from healthy subjects. However, in order to analyze the activity value of the mind, long-term measurement which is mental activity is necessary.

Verified with over 7,000 subjects in various situations so far.

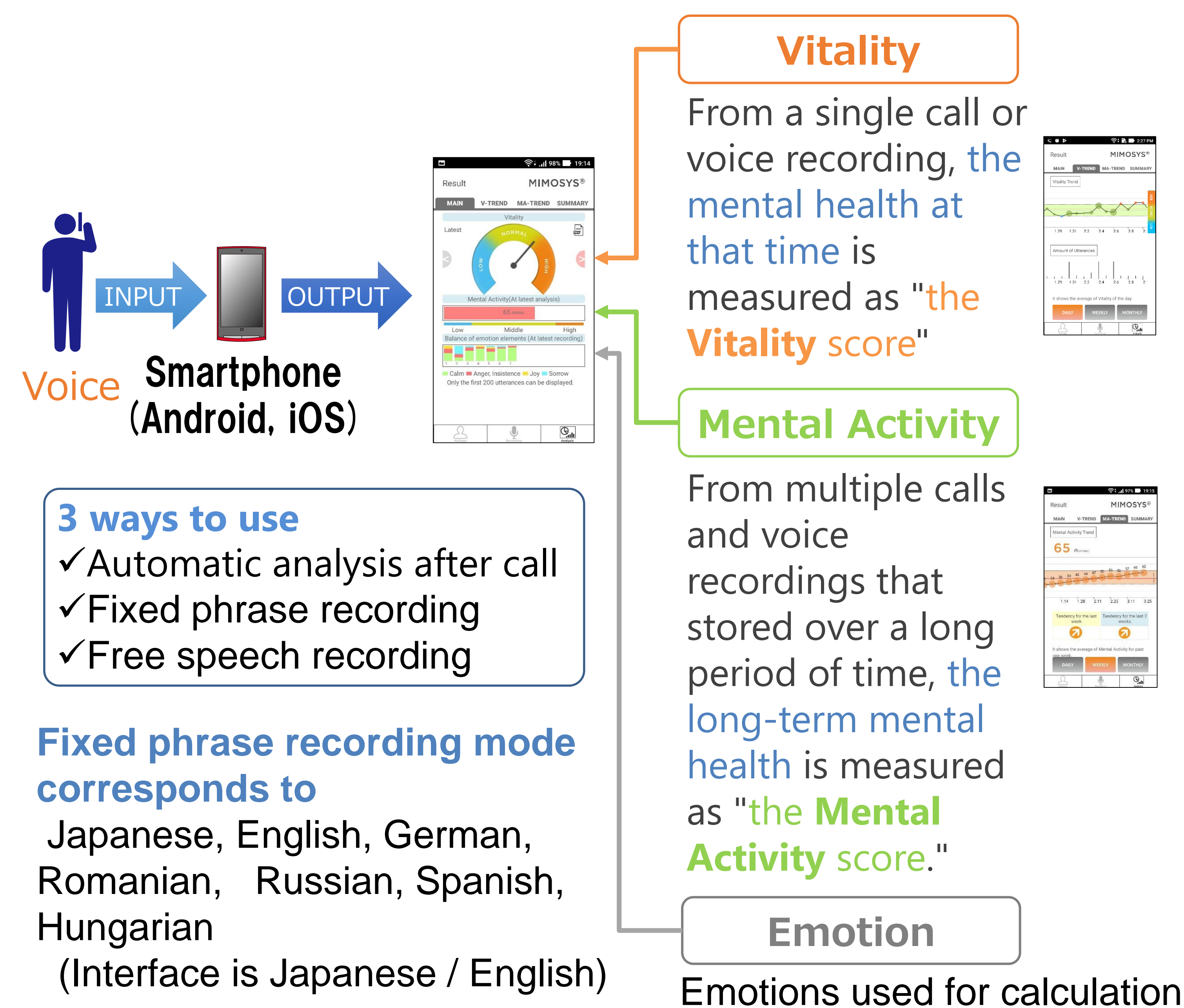
Stress Check Methods

Stress Check Methods and its Features

	Methods to check stress and depression levels	Advantages	disadvantages
Traditional	Biomarkers Saliva, blood, electrocardiogram etc.	• Accuracy (many evidences)	• High cost • Burdens on the examinees • Need special equipment
	Self-administered tests General Health Questionnaire (GHQ), Beck Depression Inventory (BDI) etc.	• Non-invasive • Remote • Non-special equipment	• Reporting bias※
Novel	Voice-based evaluations	• Easily • Non-invasive • Remote • Non-special equipment	• Need quiet environment

※Reporting bias is defined as "Selective revealing or suppression of information by subjects" (for example about past medical history, smoking, sexual experiences).

MIMOSYS is easy to use



For Practical use



【Purpose】
Using a monitoring application of the mind status of the Android version, explore its usefulness.
【Subjects】
Mainly men and women aged 16 years or older, which was intended for nurses
【Method】
Compared to one-year monitoring by the voice and every three months of the questionnaire (depression, onset, oral history, etc.).

In order to evaluate the medical validity of MIMOSYS, we are recruiting volunteers and on progress for public researches at the University of Tokyo (until August 2017). Answering a simple questionnaire every three months is required, but you can actually use this application.