

Summary of VBL Research Project

Theme	Development of the application that evaluates “the disease” using artificial intelligence
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※ We apologize for the limited information available because we are now in the process of the patent acquisition.

“The disease” has been a big problem in Japan, which is highly aging society. Measures to prevent “disease” have been taken and the decreased, however it occurs still frequently. Although there is the evaluation method for “the disease”, its intra- and inter-rater agreement rates are not good enough when evaluated by the non-experts.

Therefore, in this research, our goal is to develop the application that performs standardized evaluation of “the disease” using artificial intelligence regardless of whoever evaluates.

The images collected from our hospital and related institutions were labeled according to the classification by the experts. The artificial intelligence was trained using these images. We are to implement an image diagnostic tool as a smartphone (iPhone / Android) application using feature of learned images. In the future, we are planning to conduct clinical trials and obtain approval for this app as a class II medical device.

It is expected to bring great benefits in medical facilities which have no doctors having expertise in “the disease”,

