

Clinical Cases Review of Vibraimage (Mind-in®) Applications

Kyongchol Kim

Gangnam Major Hospital, Seoul, South Korea

Abstract: The prevalence of mental emotional disorders such as anxiety, depression, and chronic fatigue is increasing. In particular, attention deficit in children – hyperactivity disorder (ADHD), autism disorder (Autism Spectrum Disorder) and the prevalence of elder depression is on the increasing trend. Early detection and appropriate treatment of these mental and cognitive-related diseases is required, because is urgently required to have an easy and convenient new screening test that can complement the current diagnostic system. Mind-in (vibraimage) is a technique for objectively evaluating the psychophysiological state by shooting a micro-movement change with a PC camera for one minute to measure the vertical equilibrium of the head. Said phenomena named vestibule-emotional reflex and based on vestibule system operation.

Keywords: Mind-In, Depression, Anxiety, ADHD, Adrenal Fatigue, vibraimage

The total number of mind-in measurements (Kim&Kim, 2018) based on vibraimage technology (Minkin, 2017; 2020) conducted from 2019 to 2020 is 1,077 times in Gangnam Major Hospital, Seoul. This number included a patient measured several times. I present the report on several examples that provides typical information about patients. Mind-in (vibraimage) is a technique for objectively evaluating the psychophysiological state by shooting a micro-movement change with a PC camera for one minute to measure the vertical equilibrium of the head. Said phenomena named vestibule-emotional reflex (Minkin&Nikolaenko, 2008) and based on vestibule system operation.

Among patients with depression, anxiety disorders, chronic fatigue, and ADHD, Mind-in measurements were used to monitor the state of change before and after treatment. Seven of the nine cases were very effective as an objective indicator of the psychological variables of the mind-in-mind was a treatment improvement. The other two cases were somewhat inconsistent with the patient's symptoms or other tests. It is determined that the clinical feasibility as a very convenient auxiliary tool for screening and monitoring of depression and anxiety disorders, ADHD patients in primary care.

Result

Case 1: 48-year-old female patient who showed increased autonomic nervous system indicators and cortisol hormone levels during the month due to changes in concentration before and after the use of brain function improvers and improved indicators showing concentration in ind-in.

After prescription of Adrenal reinforcement to supply lowered adrenal hormone, Tyrosin to increase sympathetic nerves and concentration and the Declage of growth

hormone, a month later, fatigue and concentration have been restored. The patient said, "I feel less cold and sleep well!" Energy scores have risen significantly by functional foods without medication. (See the above graph for a mind-in result example at the right side).

Brain fatigue and concentration get much better than when visiting the hospital for the first time after treatment. Mind-in is used as a supplementary in the medical environment. Because this program can figure out brain fatigue and concentration index that cannot be covered by HRV tests.

We can show patients that in a month, indicators like brain fatigue and concentration have improved. Therefore this test has the advantage of being much more reliable.

Case1: Brain Fatigue, Adrenal Fatigue (F/48)

7월 2일 :

48세 여자 환자, 피로, 집중력 저하 등을 주소로 내원하심 (타과에서 전원)
10월에 자격증 시험을 앞두고 있어서 공부를 하는데 집중이 안되고 피로, 주위, 불면 등을 호소함

혈액검사 : Cortisol 15.22 (증가), DHEA-S 31.65 (저하), IGF-1 75.43 (저하), 25-OH Vitamin D Total 13.7 (저하), FT4 1.25, TSH 5.68 (저하) 간 기능 등 생화학 검사는 정상

처방 : 부신 영양제 (에이디포르테), 타이로신 (도파민 전구체), 디클라제 (성장호르몬)

7월 29일 : "피로 및 집중력 호전, 주위도 덜 타고 잠도 잘 자요"



헬시에이징 M CJ헬시케어

Case 2: 10-year-old boy who came to the hospital with Adrenal fatigue during ADHD treatment and had an improvement in indicators showing concentration and hyperactivity in the mind- in for a month using a fatigue modifier.

After prescription of hormone-free adrenal nutrition and Thyrosine, energy levels has recovered significantly after a month.

The patient is with low concentration and high Aggression in the early stages of his visit to the hospital. After a month of treatment, we were able to see the results with improved Concentration and reduced Aggression. After the treatment, the parents were satisfied and said, "He feels much better, less tired, and sleeps well. Above all, he's gotten a lot brighter!"

Case 2: ADHD (M/10)

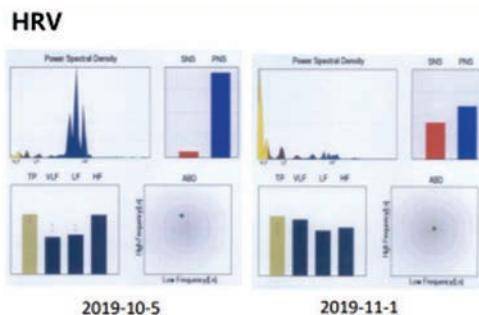
Oct 2019

*Major Symptoms:
I can't sleep well, tired, stressed, and
anxious (during ADHD treatment)

*Treatment:
15 TMS Treatment Mood Balance,
Tyrosine, TA

Nov 2019

*Progress: He's feeling better, He's less tired. Good night. He's gotten a lot brighter.



헬시에이징 M+ 강남에이징

Case 3: 11-year-old boy who had symptoms such as fatigue and constipation during the course of ADHD treatment, and improved some of the indicators of the mind-in in the course of neurofeedback treatment, fatigue-improving agent, and intestinal microbial treatment.

After intestinal microbial treatment and adrenal strengthening treatment for about a month, this child has improved concentration and hyperactivity compared to the beginning.

We used to rely on questionnaires to evaluate the psychological part. But now both patients and guardians are satisfied because the results of the mind-in measurement can visually show the effectiveness of the treatment.

Case 4: 17-year-old boy who was diagnosed with depression, and had improved some of the mind-in's indicators over the 3 months that improved depression through treatment such as TMS.

After brain-stimulating TMS. 15 times and the prescription of Seroxat Tab for the treatment of depression which helps sleep disorder, BDI score was decreased from 23 to 8 points. The depression has improved. The Seroxat tab has been stopped and changed to tryptophan Supplements.

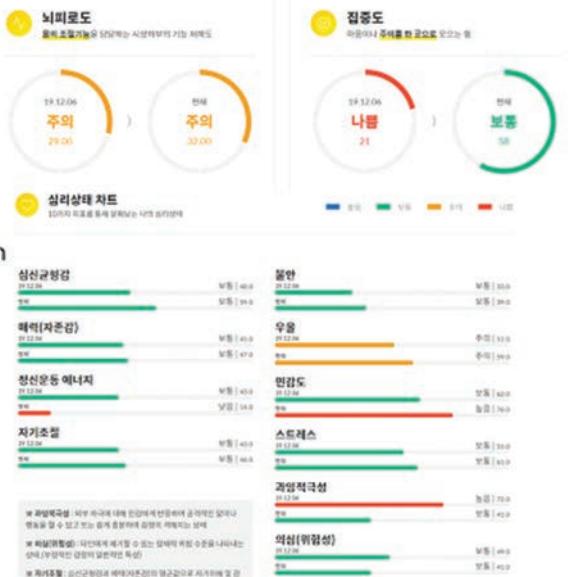
Mind-in result was shown through cumulative data during treatment period, significant improvement in brain fatigue over the early stages of the visit.

CASE 3: ADHD(M/11)

While being treated at Gangnam Severance Hospital, there was a side effect. (a stomachache, etc. caused by a Concerta)

*Major Symptoms:
ADHD / Lack of concentration
tiredness / Coldness /
Inflammation / Insomnia /
Weak bowel / Constipation /
Taking Duparac.

*Prescription:
Neurofeedback treatment
Intestinal microbiotherapy
Adrenal tonic treatment



헬시에이징 M 강남메이저

CASE 4: Depression, Anxiety (M/17)

July 2019

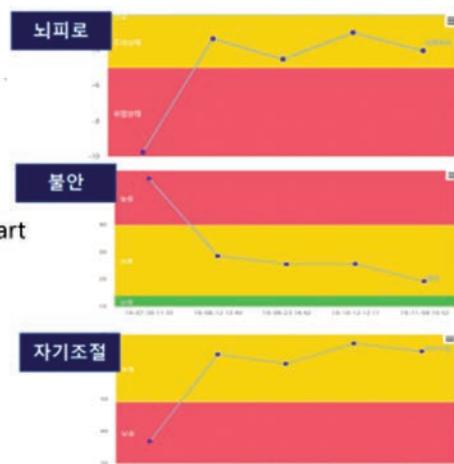
*Major symptoms:
depression, anxiety, decreased concentration, anxiety
multiple self-inflicted injuries
Depression Score (BDI, 23>16)

*Prescription: TMS 15 treatment Serozart
(Cerotonin Prescription)

Oct 2019

*Progress:
improvement in depression
Depression Score (BDI 8 < 16)
Prescription of Mood Balance after Cessation of antidepressants

"I think I've improved my concentration."



헬시에이징 M 강남메이저

There was shown with stability of anxiety and better self control (self-inflicted, the explosive temperament has been reduced).

Case 5: 33-year-old female patient who was diagnosed with depression after receiving breast cancer treatment. Depression was improved through treatments such as TMS, and there was some improvement in the index of the mind-in during the same period.

After taking TMS and adrenal reinforcement and Tryptophan supplement, mind-in results were greatly improved comparing to before and after the treatment reaching a normal range of concentration and depression parameters:

- Concentration: Low → Normal improvement;
- Depression: Caution → Normal improvement.

CASE 5: Cancer Patients, Depression (F/33)

Breast cancer treatment/Surgery
and taking Tamoxifen
p53 Variations

*Major symptoms:
insomnia, depression, anxiety, etc.
Taking Stilnox, antidepressants.
Have been seeing a local
psychiatrist. Recent experience
with shingles
“I was in business 4 years ago, but
I'm taking a break now. I've been
treated for hair loss, but I'm still
stressed out about it.”

*Prescription:
TMS, Adrenal tonic, Tryptophan
post-dose improvement



Case 6: 19-year-old male student, some indicators of mind-in indicating, such as brain fatigue, concentration and stress before and after SAT, were improved.

Case 7: 7-year-old boy, diagnosed with a tic disorder, and treated with TMS, has improved some indicators such as brain fatigue and concentration.

At first, it was difficult for the patient to come to unfamiliar hospital.

However, after the TMS treatment, many of the symptoms of tic disappeared and dosage was reduced.

Case 8: 13-year-old boy was diagnosed with Asperth Syndrome, and he had a bad bowel and was tired, so he was mind-minded before treatment, but all indicators were normal.

CASE 6: Test-taker, Stress (M/19)

뇌피로도

물의 조절기능을 담당하는 시상하부의 기능 저하도

19.10.06
주의
32.00

현재
건강
56.50

Before exam

심신균형감

19.05.12
보통

정체

매력(자존감)

19.05.12
보통

정체

정신운동 에너지

19.05.12
보통

정체

자기조절

19.05.12
보통

정체

After exam

집중도

마음이나 주의를 한 곳으로 모으는 힘

19.10.06
나쁨
30

현재
보통
55

Before exam

불안

19.05.12
보통

정체

우울

19.05.12
보통

정체

민감도

19.05.12
보통

정체

스트레스

19.05.12
보통

정체

After exam

보통 | 64.0

보통 | 55.0

낮음 | 0.0

보통 | 32.0

보통 | 54.0

보통 | 52.0

높음 | 74.0

보통 | 48.0

헬시에이징

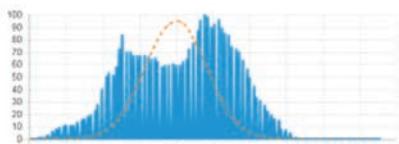
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CASE 6: Test-taker, Stress (M/19)

활력지수

몸과 마음의 역동적인 에너지(활)를 수치화 한 것



※ 적정범위(주관평선) 내에서 그라프가 증모양을 갖는 경우, 이상적인 상태로 판단합니다.

19.05.12
낮음
54.5

현재
보통
57

MIND IN 마인드인(Mindin)은

1914년 노벨의학상을 수상한 Robert Barany의 정신생리학적 이론(VER:전정강성반사)을 기반으로 하여 1분간의 동영상 활용을 통해 머리와 상체의 미세한 움직임 즉, 전정강성반사 운동을 분석하여 뇌피로, 스트레스, 짐증, 우울, 불안과 같은 심리생리학적 상태를 정량화된 결과로 알려주는 측정 및 분석 프로그램입니다.

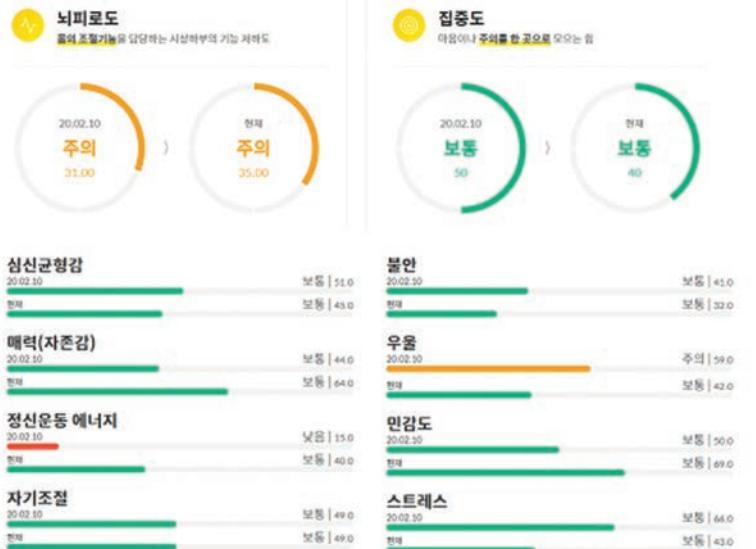
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헬시에이징

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강남메이징

CASE 7: Tic Disorder (M/7)

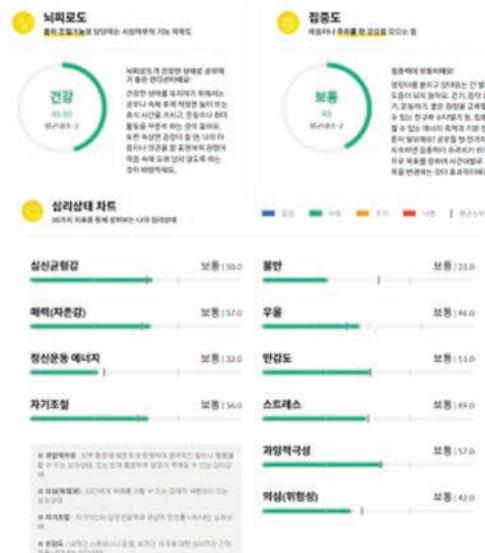
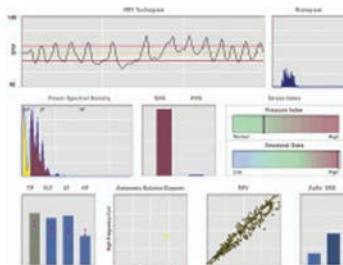


헬시에이징 M+ 강남에이징

Case 8: Asperger's syndrome, Anxiety (M/13)

*Symptoms:

Asperger's syndrome, taking Concerta, Risperidol. Low concentration, poor intestines and stomach since childhood. Fatigue, anxiety. He is Good at studying, but wants to do better.



한국언어신문 | 2024. 4. 10. | 10

This patient has a major symptoms of fatigue, hard to concentrate even though taking a lot of psychiatric medication. poor stomach and intestines, anxiety but wish to do well in school.

Tests showed that sympathetic nerves were very high and energy was low. But maybe it's because the pathology isn't deep, mind-in results do not show this. The brain's fatigue or concentration turned out to be normal that let us know the mind-in data is not well utilized.

Case 9: 18-year-old female student who had nervous emotions such as anxiety symptoms and perfectionism, and the autonomic nervous system was predominantly sympathetic. However all indicators of mind-in are normal.

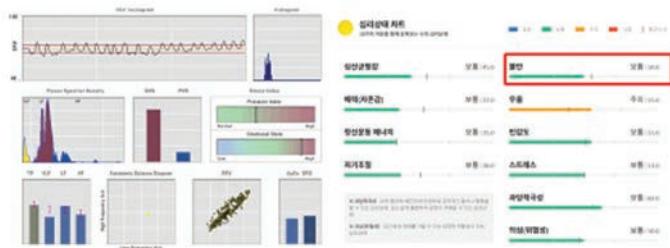
In some cases, mind-in has been successfully used as an objective indicator of symptom improvement before and after treatment. As in Case 8 and Case 9.

Case 9: Anxiety Disorder HRV vs MIND IN (Inconsistency)

An 18 years old female student with anxiety and perfectionism who often failure in the exam with anxiety.



An 18 years old male student with anxiety, depression and perfectionism who has been bullied and dropped out of school.



There are cases where the indicators of symptoms or other tests are inconsistent with the indicators of the mind-in. In particular, it is necessary to further increase the indications of the mind-in by learning about the indicators of the negative signal hormone, which is the chronic fatigue index.

Conclusion

Provided study shows that vibraimage (Mind-in) method is possible to use as monitoring tool for early detection or treatment of depression or anxiety disorders, ADHD patients. Especially Mind-in method is effective for clinically treatment in brain fatigue, stress, energy, concentration, vitality, etc.

There were differences in significant changes. However, in some cases, there are discrepancies between the indicators of symptoms and other tests and the indicators of mind-in, and it seems necessary to make efforts to analyze data that are more sophisticated in future. In particular, it is necessary further increase the indications of person's mind through the learning of chronic fatigue indicators and adrenal hormone indicators.

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