

The Amplification of the Morse Codes, which Cho Ji-Hoon's Poem *Silent Night 1* Leaves in the Human Body

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Abstract

In this study, we tried to reveal the state of stillness of Cho Ji-Hoon's poem [Silent Night 1] as a healing modifier. The language of poem is synaptically linked to the calmness emotion of the human body, seeking a principle that leads to a state of healing. Therefore, this study was carried out for the purpose of applying the principle to literary therapy program. The silent signal embedded in the poem is encoded into the signals of the sound as it is synapsed to the human body. Encoding of auditory nerves by poem lines is like a Morse code that word and word leave in the human body. The action potential of the auditory nerve is further activated by the potential difference between the word and the word represented by the neural network, such as a Morse code, which is accessed to the human body by such a path. There is worked as amplified potential difference between the words perceived by a sound which is synapsed to the human body and by a silence which is synapsed to the human body. The phenomenon of the words approaching the human body and setting the absence of sound and amplifying the sound is because the words amplifies the Morse codes in the human neural network. At this time, the signals overlap each other. Thereby this poem is increasing the amplitude of the sound. This overlapping of auditory signals appears and amplifies the catharsis. If this Cho Ji-Hoon Poem's principle is applied to literary therapy program in the future, more effective treatment will be done.

Keywords: Cho Ji-Hoon, Literary Therapy, Auditory nerve encoding, Silent Action Potential, Morse code

1. Introduction

There is no example other than the author's thesis that applied the keywords of literary therapy to the poem of Cho Ji-Hoon in terms of "encoding"[1-3, 5] and "action potential"[2]. In this study, we try to reveal the silent condition of the poem *Silent Night 1*(靜夜 1) by Cho Ji-Hoon in terms of "encoding" and "action potential" as a healing modifier. We will explore that this formula rests on the signal of healing. In other words, we will explore how Cho Ji-Hoon sets the state of silence in poem and leads the codes of healing to the human body. Thus, the languages of poem is synaptically linked to the lyricism of the human body to

find a principle that lead to a state of healing. Therefore, this study is proceeded with the aim of applying the principle to literary therapy program. The necessity of this study starts from the reason that mankind is steadily healing life and upgrading hope with the recipe of literature. In the present study, the phrase "ripple" is also a term for the "action potential" of the mind. The research method is to analyze the progress of the poem lines shown in Cho Ji-Hoon's *Silent Night 1*. And we will trace the emotions that the lines achieve and reveal that the emotions are connected with the lyric of healing. In this study, it is presumed that the mechanism of literary therapy is made after the language of poem approaches to the human neural circuit. This narrative point of view is much more about discussing the perspective of personal healing. Literature approaches and heals human's personal lyric. This makes the description of this study possible. And this narrative is based on the viewpoint of the recent neurophysiology, literature, and brain science. In addition, this study is on the extension of this researcher's "papers"[6-27] and presumes that the studies are complementary.

2. Tour of silence

In Cho Ji-Hoon's *Silent Night 1*, when we touch the silent 'sound' of the poem lines, the imagination of the sound produces the signals. Therefore, the calm emotion embedded in the poem is encoded into the signals of the sound as it is synaptically transmitted to the human body. Let's take a look at Poem *Silent Night 1* on page 104 of *Cho Ji-Hoon Jeonjib 1 Poetry*[4] to understand the mechanism.

별 빛 받으며
발 자취 소리 죽이고
조심스리 쓸어 논 맑은 뜰에
소리 없이 떨어지는
은행잎
하나.

This is interpreted as follows in English.

Receive the starlight
Without making a footstep,
In a clear garden that was carefully swept away,
Falling silent,
A ginkgo
Leaf.

2.1. Encoding of the auditory nerve

The auditory nerve is encoded in the human body by the following poem lines. The encoding of the auditory nerves by these poem lines is like a Morse code(Morse 符號), in which word and word are left in the human body. The action potential of the auditory nerve is further activated by the potential difference between word and word, such as the Morse code, which is approached to the human body.

Without making footsteps,
carefully swept away,
Falling silent,

The "footsteps" by "without making footsteps," which is perceived in the human body, results in the encoding of sound in the world of imagination of the human body. At this time, the encoding is further emphasized by "Without making". In other words, the presence of sound is amplified by the absence of sound.

In the "carefully swept away," "swept" was set. So this poem line is putting the sound sign in the human body. The sign of this sound is more highlighted by "carefully". Because "carefully" puts the calm state in place, "swept" amplifies the presence of sound more.

Table 1. Emotion Codon 1

Second base →	U	L	A	J	Second base ←
First base ↓	UUU UUL UUA UUJ	ULU ULL ULA ULJ	UAU UAL UAA UAJ	UJU UJL UJA UJJ	Third base ↓
U					U/L/A/J
L	LUU LUL LUA LUJ	LLU LLL LLA LLJ	LAU LAL LAA LAJ	LJU LJL LJA LJJ	U/L/A/J
A	AUU AUL AUA AUJ	ALU ALL ALA ALJ	AAU AAL AAA AAJ	AJU AJL AJA AJJ	U/L/A/J
J	JUU JUL JUA JUJ	JLU JLL JLA JLJ	JAU JAL JAA JAJ	JJU JJL JJA JJJ	U/L/A/J
These Emotion amino acids express various changes of the Emotion DNA					

In "Falling silent", "Falling" produces signs of sound. The signs produced by this "Falling" further amplify the action potential by "silent". This is because, after the words are synaptically connected to the human body, there is a considerable potential difference between the word realized as sound and the word

realized as silentness("Falling" and "silent"). This is equivalent to throwing a stone into a calm lake. If you throw a stone in a calm lake, the lake will ripple. Such a calm human sentiment is that electrical signals are activated to form a ripple of sound. The identity of this sound can be thought as a ripple of joy in discovering the condition of a being. So, if we summarize it by "Emotion-Codon", it can be said that it is encoded like Table 1. J is the sign of joy.

Like this, when words approach the human body, the phenomenon of setting the absence of sound and amplifying the sound is because the words amplify the Morse code in the human neural network. At this time, the signals overlap each other.

2.2. Action potential of silence

Lines 5 to 6 of this poem are as follows.

A ginkgo
Leaf.

These lines are "A ginkgo / Leaf", it is not a sound but "A ginkgo Leaf". Once here, "A ginkgo Leaf" is silent at rest. However, when it moves, it generates sound. In this poem, "A ginkgo Leaf" is a moving object because it is already preceded by "Falling". Therefore, it generates sound. In other words, Cho Ji-Hoon's *Silent Night 1* causes action potentials in the still state to cause ripples in the sound. However, this "A ginkgo Leaf" accepts all the previous poem lines and stores the amplitude of the sounds. So this "A ginkgo Leaf" eventually falls off the tree without enduring the many amplitudes of the sounds. This causes the reader to experience the ripple of condensed sound. This state is shown in Table 2. The ripples of the condensed sound appear as "JJJ".

Table 2. Emotion Codon 2

Second base →	U	L	A	J	Second base ←
First base ↓	UUU UUL	ULU ULL	UAU UAL	UJU UJL	Third base ↓
U	UUA UUJ	ULA ULJ	UAA UAJ	UJA UJJ	U/L/A/J
L	LUU LUL LUA LUJ	LLU LLL LLA LLJ	LAU LAL LAA LAJ	LJU LJL LJA LJJ	U/L/A/J
A	AUU AUL AUA AUJ	ALU ALL ALA ALJ	AAU AAL AAA AAJ	AJU AJL AJA AJJ	U/L/A/J
J	JUU JUL JUA JUJ	JLU JLL JLA JLJ	JAU JAL JAA JAJ	JJU JJL JJA JJJ	U/L/A/J
These Emotion amino acids express various changes of the Emotion DNA					

3. A ripple of Joy

Cho Ji-Hoon's poem *Silent Night 1* is a silent thing and silent ripples. In other words, in this poem, the calm emotions make action potentials and themselves protrude as signs of joy.

In this poem, "A ginkgo Leaf" is responsible for the surge of pleasure, which causes a ripple of silent joy. When we read these poem lines repeatedly, in our human body, there is heaped a vocabulary of "A ginkgo Leaf". At this time, a loud ripple occurs in the human body and vibrates all the cells. This brings the human body to catharsis. This is the meaning of healing in this poem.

3.1. Circulation of ginkgo leaf

When you repeat the lines of this poem, the journey of "A ginkgo Leaf" is that the calmness circulates. Thus, this poem makes the silence circulate in the human body. 'Silence circulates' raises ripples on the calm water surface. The 'silence circulates' is that raises ripples on the surface of a calm water. The human body, which is the surface of a calm water, infinitely accepts this silent signals. At this time, a calm typhoon occurs in the human body. Calm is the eye of the typhoon and the eye of healing. In this poem, the eye of the typhoon is attached to "A ginkgo Leaf".

3.2. Overlap of signals

When reading repeatedly, the signals of the image of "A ginkgo Leaf" overlap each other. By doing so, the signals push each other and increase the amplitude of the sound. Because the same amplitude can not be absorbed as the same amplitude, they are distant from each other. This state is interpreted to "Emotion-Codon" as shown in Table 3. <"JJJ × 2" or "JJJ × 3", "JJJ × 4", "JJJ × 5" ... > represents the overlap of the auditory signals and leads to amplification of the catharsis. Finally, the amplitudes of these sounds are maximized as shown in Table 4. Like this, Cho Ji-Hoon's poem *Silent Night 1* synapses to the human body to operate the neural circuit. In this way, it will be extended with delight in the healing calm lyricism of the human neural network.

Table 3. Emotion Codon 3

Second base →	U	L	A	J	Second base ←
First base ↓	UUU	ULU	UAU	UJU	Third base ↓
U	UUL	ULL	UAL	UJL	U/L/A/J
	UUA	ULA	UAA	UJA	
	UUJ	ULJ	UAJ	UJJ	
L	LUU	LLU	LAU	LJU	U/L/A/J
	LUL	LLL	LAL	LJL	
	LUA	LLA	LAA	LJA	
	LUJ	LLJ	LAJ	LJJ	
A	AUU	ALU	AAU	AJU	U/L/A/J
	AUL	ALL	AAL	AJL	
	AUA	ALA	AAA	AJA	
	AUJ	ALJ	AAJ	AJJ	

J	JUU	JLU	JAU	JJU	U/L/A/J
	JUL	JLL	JAL	JJL	
	JUA	JLA	JAA	JJA	
	JUJ	JLJ	JAJ	JJJ×2	
	These Emotion amino acids express various changes of the Emotion DNA				

Table 4. Emotion Codon 4

Second base →	U	L	A	J	Second base ←
First base ↓	UUU	ULU	UAU	UJU	Third base ↓
U	UUL	ULL	UAL	UJL	U/L/A/J
	UUA	ULA	UAA	UJA	
	UUJ	ULJ	UAJ	UJJ	
L	LUU	LLU	LAU	LJU	U/L/A/J
	LUL	LLL	LAL	LJL	
	LUA	LLA	LAA	LJA	
	LUJ	LLJ	LAJ	LJJ	
A	AUU	ALU	AAU	AJU	U/L/A/J
	AUL	ALL	AAL	AJL	
	AUA	ALA	AAA	AJA	
	AUJ	ALJ	AAJ	AJJ	
J	JUU	JLU	JAU	JJU	U/L/A/J
	JUL	JLL	JAL	JJL	
	JUA	JLA	JAA	JJA	
	JUJ	JLJ	JAJ	JJJ×∞	
These Emotion amino acids express various changes of the Emotion DNA					

4. Conclusion

The reason humans are steadily healing their lives and upgrading their hopes with the prescription of literature proves that literature generates a healing mechanism for the human body.

In this study, we tried to reveal the silent condition of the poem *Silent Night 1* by Cho Ji-Hoon in terms of "encoding" and "action potential" with a healing modifier. It is to find the principle that the language of poem is synaptically linked to the calmness of the human body and leads to a state of healing. The literary therapy mechanism discussed here is generated after the language of poem approach the human neural circuit.

The calm emotion embedded in the poem is encoded into the signals of the sounds as it is synapsed to the human body. Encoding of auditory nerves by lines of poem is like a Morse code that words and words leave in the human body. The action potential of the auditory nerve is further activated by the potential difference between word and word appeared from neuron network, such as the Morse code, which is approached to the human body. After the words are synaptically connected to the human body, there is operated a considerable potential difference between the word realized as sound and the word realized as silentness. The

phenomenon of words approaching the human body and setting the absence of sound and amplifying sound is because the words amplify the Morse code in the human neural network. Cho Ji-Hoon's *Silent Night I* is that an action potential generates in the silent state and raises the ripple of sound. In this poem, the calm emotions are leading to action potentials and are protruding as the signs of joy. The ripples of the sound occur in the human body and vibrate all the cells. This brings the human body to catharsis. The human body infinitely accepts the signal of calm and causes a calm typhoon. In this poem, calm is the eyes of the typhoon and the eyes of healing. In this poem, the signals overlap each other. Thereby increasing the amplitude of the sound. This overlapping of auditory signals appears and amplifies the catharsis. Cho Ji-Hoon's poem *Silent Night I* synapses to the human body to operate the neural circuit. In this way, it will be extended with delight in the healing calm lyricism which is the human neural network.

If the principle of poem is applied to literary therapy program in the future, it will contribute to human life and welfare.

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