

## Encoding of sentences appearing in Cho Ji-Hoon's poem "White night"

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### *Abstract*

*This study was initiated with the aim of suggesting a further step in the program of literary therapy by revealing the mechanism by which the body heals through the discharge of neural network codes. Sentence is encoded as neural signals in our body as it is being read.*

*If the neural networks in the human body are activated and created, the code in which the neural networks are encoded is a code composed of sentences. That is, Sentence is a code. And if the Sentence connects to the human body again and activates the human neural networks, it can be said that Sentence is encoded. At this time, the relation of "neural network codes = Sentence codes" is established. In other words, human narrative and literary narratives are the mediums that convey the same kinds of neural network codes.*

*Cho Ji-Hoon's Poem "White Night" draws sadness through the path of loneliness in 1strophe. Through the Sentence of Loneliness, it activates neural network codes of sadness. 2strophe for the 'pure white snow' is the encoding of the Sentence. In 3strophe, the sentence for 'sadness' is encoded. This flow causes a healing mechanism in this Poem, because the neural network codes about the loneliness, sadness, and eyes of the human body are passed to the other. Here, the other is "White Night".*

*In the future, it is expected that more effective healing results will be obtained if a literary therapy program on the encoding of the sentence of Cho Ji-Hoon's Poem is performed in the future.*

**Keywords:** *Cho Ji-Hoon, Literary therapy, Emission of neural network codes, Encoding of sentences, Human narrative, Literary narrative, Mechanism of healing, Functional relation of sentences, Functional structure of words*

### **1. Introduction**

Literary therapy has become a keyword of interest and love today. However, the discussion on the "encoding"[1,2,3,5] of Sentences seems to have not happened very actively. Therefore, this study was started with the purpose of suggesting a further step in the program of literary therapy by revealing the mechanism by which the human body is healed through the discharge of neural network codes.

The object of this study is Poem "White Night(白夜)" by Cho Ji-Hoon. This Poem gives a short and deep reverberation. And through the emission of neural network codes, the mechanism of healing is spontaneous and rich. Therefore, I think that It has a composition of poetic healing that meets the purpose of this study.

The research method takes a form to draw conclusions by slightly modifying Emotion Codon which is the framework of the hypothesis that the researcher mainly uses. It has a premise that the encoding state in the

Emotion Codon can be different for each human body.

This study is an extension of the "papers"[6-22] of the researcher who has been carried out in the meantime.

## 2. Encoding of Sentences

Sentence is encoded as neural signals in our body as it is being read. Poem is especially rich in the mechanism of healing for the human body in terms of the emotion signals for Sentence being encoded. Thus, the encoding of Sentence that conveys emotions to the human body can be said to be systematic in the Poem.

If the neural networks in the human body are activated and created, the code in which the neural networks are encoded is a code composed of sentences. That is, Sentence is a code. And if the Sentence connects to the human body again and activates the human neural networks, it can be said that Sentence is encoded. At this time, the relation of "neural network codes = Sentence codes" is established. In other words, human narrative and literary narratives are the mediums that convey the same kinds of neural network codes. From now on we analyze the signal of the Poem and derive the implication of the encoding in that relation. In particular, we will discuss how Sentence is encoded.

The following is Poem "White Night" on page 309 of "Cho Ji-Hoon Jeonjib 1 Potry"[4].

꿈길  
외로운 마음에 들창을 열면

초가집 지붕 위로  
새하얀 눈이 내려 쌓인다.

흰 寢衣 자락에 쌓이는 슬픔  
벽에 기대어 눈을 감는다.

This is interpreted in English as follows.

The way of dream  
When I open the window in my lonely heart

On that roof made of thatch  
pure white snow accumulates.

Sadness accumulated in the white pajamas  
I lean against the wall and close my eyes.

### 2.1. Loneliness

This poem can be seen as sentences in which each strophe is encoded to sadness when viewed more than once. The first strophe is also to sadness, the second strophe is to sadness, and the third strophe is encoded as sadness. This is shown in Table 1. The 1strophe, which is the encoding of such a sad emotion, is the encoding of Sentence for loneliness. That is, 1strophe leads to sadness through the path of loneliness. Through the sentence of loneliness, it activates neural network codes of sadness.

**Table 1. Emotion Codon 1**

Second base →	U	L	A	J	Second base ←
First base ↓ U	UUU UUL UUA UUJ	ULU ULL ULA ULJ	UAU UAL UAA UAJ	UJU UJL UJA UJJ	Third base ↓ 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					

**2.2. Pure white Snow**

The second strophe is encoded as sadness, as the more time accumulates, the more sadness accumulates. In other words, the more we appreciate, the more sadness we accumulate. It is by "The way of dream / When I open the window in my lonely heart". Therefore, the second strophe is encoded as shown in Table 2. It's like "U" coming down like snow. It is the encoding of Sentence for 'pure white snow'.

**2.3. Variation**

Sentence describing snow accumulation is headed to "Sadness accumulated in the white pajamas". So, accumulating snow is sadness. When the encoding of sadness reaches almost the extremes, it becomes like the encoding of Table 3. It is the encoding of Sentence for 'sadness'. The encoding of U overlaps and overlaps to form "UUU". This means that the first strophe's "lonely heart" became "Sadness". Loneliness has transformed into sadness. This sadness is again transformed into a motif of "close my eyes". In other words, the sadness transformed into eyes.

Looking closely at this pathway leads to "Loneliness → snow → Sadness → eyes". In other words, the first word of this poem, 'The way of dream', is encoded into Sentence containing 'Loneliness' and 'Loneliness' is again encoded into Sentence containing 'snow'. And 'snow' is encoded as 'sadness' and 'sadness' is again encoded as Sentence containing 'eyes'. This path shows how the Sentence is transformed to another Sentence.

Table 2. Emotion Codon 2

Second base →	U	L	A	J	Second base ←
First base ↓ U	UUU UUL UUA UUJ	ULU ULL ULA ULJ	UAU UAL UAA UAJ	UJU UJL UJA UJJ	Third base ↓ 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					

Table 3. Emotion Codon 3

Second base →	U	L	A	J	Second base ←
First base ↓ U	UUU UUL UUA UUJ	ULU ULL ULA ULJ	UAU UAL UAA UAJ	UJU UJL UJA UJJ	Third base ↓ 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					

**Table 4. Emotion Codon 4**

Second base →	U	L	A	J	Second base ←
First base ↓ U	UUU UUL UUA UUJ	ULU ULL ULA ULJ	UAU UAL UAA UAJ	UJU UJL UJA UJJ	Third base ↓ 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					

**Table 5. Emotion Codon 5**

Second base →	U	L	A	J	Second base ←
First base ↓ U	UUU UUL UUA UUJ	ULU ULL ULA ULJ	UAU UAL UAA UAJ	UJU UJL UJA UJJ	Third base ↓ 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					

## 2.4. Functor and argument

1strophe is a semantic argument of 2strophe. And 2strophe is the semantic argument of 3strophe. Therefore 3strophe is the functor of 1strophe and 2strophe. Here, a functional relation of sentences as "(1strophe)  $\subset$  (2strophe)  $\subset$  (3strophe)" or "(1strophe) + (2strophe)  $\subset$  (3strophe)" is established. This inclusive relation is the process of healing. The functional structure of words is established as "loneliness  $\subset$  snow  $\subset$  sadness  $\subset$  eyes" or "loneliness + snow + sadness  $\subset$  eyes". This is the structure of healing. Loneliness is included in a state, It does not matter whether the state is sadness or joy. When loneliness is incorporated into a state, it is no longer lonely. Loneliness was healed at that time. In Cho Ji-Hoon Poem, the cause of healing is that loneliness is included in sadness. And sadness is incorporated into the eyes, and sadness is healed as well. Then what about the eyes? If you watch this poem repeatedly, the eyes of 3strophe will be included to the snow of 2strophe again. So eyes are healed, too. With this flow, the mechanism of healing occurs in this Poem, because the neural network codes about the loneliness, sadness, and eyes of the human body are passed to the other. That is, healing is achieved through the emission of neural network codes. Here, the other is Cho Ji-Hoon's Poem "White Night".

So, the other that all the emotions of the human body are transferred is Poem, and the detailed syllable becomes 'snow'. This is because the snow contained all the trauma of the human body. So the poetic narrator becomes condition of "close my eyes" in the last strophe. The core progression of this Poem is made by loneliness being encoded as snow and snow being encoded as sadness. And the sadness is again encoded into eyes. Thus, the encoding of the Poem is the encoding of the Sentence, which dilutes loneliness, eliminates sadness, and includes eyes to snow. Table 3 shows that the semantic arguments of sadness are encoded as shown in Table 4, and the sadness, which is the functor of all the semantic arguments, is encoded as shown in Table 5.

## 3. Conclusion

Human narratives and literary narratives are the mediums that convey the same kinds of neural network codes. Cho Ji-Hoon's Poem "White Night" draws sadness through the path of loneliness in 1strophe. Through the Sentence of Loneliness, it activates the neural network codes of sadness. 2strophe for the 'pure white snow' is the encoding of the Sentence. And in 3strophe, it is the encoding of Sentence for 'sadness'. This flow causes a healing mechanism in this Poem, because the neural network codes about the loneliness, sadness, and eyes of the human body are passed to the other. That is, healing is achieved through the emission of neural network codes. Here, the other is Cho Ji-Hoon's Poem "White Night".

In the relation between the functor and the argument, "White Night" sentence encoding is performed with 1strophe including 2strophe, and again with 2strophe including 3strophe. This is the process of healing. The core progression of Poem is made by loneliness being encoded as snow and snow being encoded as sadness. And the sadness is again encoded into eyes. Thus, the encoding of the Poem in Sentence is the encoding of the Sentence, which dilutes loneliness, eliminates sadness, and includes eyes as snow.

In the future, it is expected that more effective healing results will be obtained if a literary therapy program on the encoding of the sentence of Cho Ji-Hoon Poem is performed in the future.

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