

: ,

*

** .

1.

가

(attribute),
(antecedent), (consequent),
(related concepts)

가

(Jones,

1993).

가

가

(Piper, 1992; Jones, 1993),

가

가

가

(Yarbro,

Frogge, Goodman, & Groenwald, 2000).

가

가

가

/),

(/)

가

*

**

2002 5 14

2002 7 29

2002 9 20

, 가 ,
(Lee, 1998).

(Lee, 1998).

Piper(1992) (Integrated Fatigue Model) Winningham(1992) (Psychobiologic Entropy Model of Functioning)

가 . Piper ,

가

가

(universal attribute)

Piper(1992) Fatigue scale (, , ,)

(Akechi, Kugaya, Okamura, Yamawaki, & Uchitomi, 1999; Blesh et al., 1991) Profile of Mood State(POMS) Functional Assessment of Cancer Therapy-Fatigue(FACT-F)

.

,

,

가

2.

Kim(1993) “ (Alternative linkages among philosophy, theory, and method in nursing science)”<Figure 1> 1990 1 2001 12

가 1) 2) . 3) . 4) (related concepts)

.

1. 1990 1 2001 12

, <http://richis.org> <http://koreanurse.or.kr>, <http://dilibary.go.kr> 9

ProQuest ARL CSA IDS(Cambridge Scientific Abstracts Internet Database Service), OVID Medline, DDOD(Digital Dissertations On Demand)

143 Kim(1993) “ (Alternative linkages among philosophy, theory, and method in nursing science)” 가

9 54 63

2.

(pluralism)

Kim (1993) “ (Alternative linkages among philosophy, theory, and method in nursing science)” <Figure 1>.

Kim (1993) (reality)

가

etic emic

etic

emic

가

(scientific realism)

(scientific relativism)

- /

-

가

1. Kim (1993) “

”

(descriptive), (explanatory),

(prescriptive)

Reynold (1975) , , (1993) “ 63 Kim

(Alternative linkages among philosophy, theory, and method in nursing science)” TYPE Ab 2 , Ad 4 , Ae 46 , Af 7 , Gg 4

Methodology Dimension		Philosophy and Theory Dimension												
		Realism							Relativism					
		Inductive			Deductive				Inductive			Deductive		
		DE N	EX N	PR N	DE N	EX N	PR N	DE N	EX N	PR N	DE N	EX N	PR N	DE N
ETIC	QUAN	CONT	Aa	Ab 2	Ac	Ad 4	Ae 46	Af 7	Ag	Ah	Ai	Aj	Ak	Al
		NATR	Ba	Bb	Bc	Bd	Be	Bf	Bg	Bh	Bi	Bj	Bk	Bl
	QUAL	CONT	Ca	Cb	Cc	Cd	Ce	Cf	Cg	Ch	Ci	Cj	Ck	Cl
		NATR	Da	Db	Dc	Dd	De	Df	Dg	Dh	Di	Dj	Dk	Dl
EMIC	QUAN	CONT	Ea	Eb	Ec	Ed	Ee	Ef	Eg	Eh	Ei	Ej	Ek	El
		NATR	Fa	Fb	Fc	Fd	Fe	Ff	Fg	Fh	Fi	Fj	Fk	Fl
	QUAL	CONT	Ga	Gb	Gc	Gd	Ge	Gf	Gg 4	Gh	Gi	Gj	Gk	Gl
		NATR	Ha	Hb	Hc	Hd	He	Hf	Hg	Hh	Hi	Hj	Hk	Hl

DE=descriptive; EX=explanatory; PR=prescriptive; CONT=controlled; NATR=naturalistic; QUAN=quantity; QUAL=quality; N=numbers of article

<Figure 1> Distributions of the analyzed 63 studies about fatigue since 1990 by analytical scheme of Kim's alternative linkages among philosophy, theory, and method in nursing science

<Figure 1>. 63 Kim (1993)
 96 <Figure 1> (Af)가 7 6 (Suh, 1997;
 5 Dimeo et al., 1995; Dimeo et al., 1998; Mock
 63 et al., 1997; Schwartz, 2000; Porock et al.,
 59 2000)
 . , Methylphenidate 1
 4 TYPE Gg - (Sarhill et al., 2001)가 .
 (scientific relativism)
 , (reality) , 가 2.
 , emic
 ,
 - 가
 59 46 (78%)
 TYPE Ae - ,
 , (TYPE Ab, Ad, Ae, Af) 59
 , etic 9 (15.3%) . 가
 - Piper (Integrated
 Fatigue Model) 6 (Kwon, 1999;
 Blesh et al., 1991; Dean et al., 1995; Berger,
 1998; Richardson, 1998; Woo et al., 1998)
 , etic ,
 - TYPE Ad-
 4 . TYPE Af -
 , etic
 ,
 - 7 . TYPE Ab -
 , 1
 etic - 2
 <Table 1>. 3.

<Table 1> Studies classified into 5 types (Ab, Ad, Ae, Af, Gg) as the results of the analysis

TYPE	references	N
Ab	Hickock et al., 1996; Schwartz, 1998	2
Ad	Akechi et al., 1999; Cella et al., 2001; Curt et al., 2000; Vogelzang et al., 1997 Andrykowski et al., 1998; Berger, 1998; Berger & Farr, 1999; Berger & Higginbotham, 2000; Berger & Walker, 2001; Blesh et al., 1991; Bower et al., 2000; Broeckel et al., 1998; Cella, 1998; Cho, 1999; Dean et al., 1995; Dimeo et al., 1997; Eaton & Worrall, 1998; Gaston-Johansson et al., 1999; Given et al., 2001; Glaus & Muller, 2000;	4
Ae	Graydon et al., 1994; Hann et al., 1999; Irvine et al., 1994; Irvine et al., 1998; Kasper, 2000; Krishnasamy, 2000; Kwon, 1997; Kwon, 1999; Leddy, 1997; Lee, 1992; Lee, 1997; Lee, 1998; Lee, 2000; Mast, 1998; Okuyama et al., 2001; Park, 1999; Pickard-Holly, 1991; Redeker et al., 2000; Richardson, 1998; Schwartz et al., 2001; Servaes et al., 2001; Smets et al., 1998; Song, 1992; Stone et al., 1999; Stone et al., 2000-a, 2000-b; 2000-c; Visser & Smets, 1998; Wang et al., 2001; Woo et al., 1998;	46
Af	Dimeo et al., 1998; Dimeo et al., 1999; Mock et al., 1997; Porock et al., 2000; Sarhill et al., 2001; Schwartz, 2000; Suh, 1997	7
Gg	Glaus et al., 1996; Glaus et al., 1999-a; Glaus et al., 1999-b; Ream & Richardson, 1997	4

<Table 2> Fatigue related concepts and studies involving each related concepts

related concepts	References	N
related host factors	Akechi et al., 1999; Andrykowski et al., 1998; Kwon, 1997; Redeker et al., 2000; Song, 1992	5
related social factors	Akechi et al., 1999; Andrykowski et al., 1998; Berger & Walker, 2001; Cho, 1999; Kwon, 1997; Song, 1992; Stone et al., 2000-a	7
functional state	Akechi et al., 1999; Berger & Walker, 2001; Dimeo et al., 1997; Dimeo et al., 1998; Hann et al., 1999; Irvine et al., 1994; Irvine et al., 1998; Kwon, 1997; Schwartz et al., 2001; Stone et al., 2000-a	10
health state	Andrykowski et al., 1998; Berger & Higginbotham, 2000; Berger & Walker, 2001; Gaston-Johansson et al., 1999; Smets et al., 1998	5
related symptom	Andrykowski et al., 1998; Berger & Higginbotham, 2000; Berger & Walker, 2001; Bower et al., 2000; Broekel et al., 1998; Cho, 1999; Glaus & Muller, 2000; Irvine et al., 1994; Kasper, 2000; Okuyama et al., 2001; Stone et al., 1999; Stone et al., 2000-a, 2000-b; Wang et al., 2001	14
biochemical factors	Andrykowski et al., 1998; Berger & Walker, 2001; Cella, 1998; Cho, 1999; Kwon, 1997; Irvine et al., 1994	6
mood state	Andrykowski et al., 1998; Blesh et al., 1991; Bower et al., 2000; Cho, 1999; Dean et al., 1995; Dimeo et al., 1997; Kwon, 1997; Servaes et al., 2001; Song, 1992;	9
depression	Akechi et al., 1999; Blesh et al., 1991; Bower et al., 2000; Gaston-Johansson et al., 1999; Glaus & Muller, 2000; Okuyama et al., 2001; Redeker et al., 2000; Servaes et al., 2001; Stone et al., 1999; Stone et al., 2000-a; 2000-b	11
pain	Blesh et al., 1991; Dimeo et al., 1997; Gaston-Johansson et al., 1999; Krishnasamy, 2000; Servaes et al., 2001; Stone et al., 1999; Stone et al., 2000-a; Wang et al., 2001	8
chemotherapy	Berger, 1998; Berger & Walker, 2001; Cho, 1999; Given et al., 2001; Graydon et al., 1994; Kasper, 2000; Kwon, 1997; Lee & Cho, 1997; Pickard-Holley, 1991; Song, 1992; Wang et al., 2001; Woo et al., 1998	12
radiotherapy related disease	Cho, 1999; Graydon et al., 1994; Lee, 1992; Wang et al., 2001	4
sleep disturbance	Dimeo et al., 1997; Kwon, 1997; Stone et al., 2000-a	3
activity	Andrykowski et al., 1998; Berger, 1998; Berger & Higginbotham, 2000; Bower et al., 2000; Broeckel et al., 1998; Kwon, 1997; Redeker et al., 2000; Song, 1992	8
rest	Berger, 1998; Berger & Farr, 1999; Berger & Higginbotham, 2000; Berger & Walker, 2001; Schwartz et al., 2001; Servaes et al., 2001	6
QOL	Berger, 1998; Berger & Farr, 1999; Song, 1992	3
	Akechi et al., 1999; Broeckel et al., 1998; Cella, 1998; Hann et al., 1999; Kwon, 1999; Lee & Cho, 1997; Redeker et al., 2000; Stone et al., 2000-a, b; Visser & Smet, 1998	10

(46)

(7)

가

가

(conditions)(Hempel, 1965)

가

(correspondence rule)

가

(Bagozzi, 1980).

Piper 6

4

4

emic

3. 63

15

48

가

가

4. TYPE Gg 4 59

Revised Piper Fatigue Scale 8 , Piper Fatigue Scale

5

5.

Retroductive Logic(Abductive Logic)

Kim(1993) Hybrid model

Kim(1989)

Kim(1989)

References

- Akechi, T., Kugaya, A., Okamura, H., Yamawaki, S., & Uchitomi, Y. (1999). Fatigue and its associated factors in ambulatory cancer patients : a preliminary study. *J Pain Symptom Manage, Jan, 17*(1), 42-48.
- Bagozzi, R. P. (1980). *Causal Models in Marketing*, New York, John Wiley & Sons.
- Blesch, K. S., Paice, J. A., Wickham, R., Harte, N., Schnoor, D. K., Purl, S., Rehwalt, M., Kopp, P. L., Mason, S., & Coveny, S. B. (1991). Correlates of fatigue in people with breast or lung cancer. *Oncol Nurs Forum, 18*, 81-87.
- Hempel, C. (1965). *Aspects of Scientific*
- Kim(1993) “ ” 1990 1
- 2001 12
1. “ , , ” 63
- TYPE Ab 2 , Ad 4 , Ae 46 , Af 7 , Gg 4
2. 59
- 9 가

Explanation. New York: Free Press.

Jones, L. S. (1993). *Correlates fatigue and related outcomes in individuals with cancer undergoing treatment with chemotherapy*. Doctoral dissertation, University of New York. New York.

Kim, H.S. (1989). *Theoretical Thinking in Nursing: problems and prospects*. Churchill Livingstone, Edinburgh.

Kim, H. S. (1993). Identifying alternative linkage among philosophy, theory, and method in nursing science. *J Adv Nurs*, 18(22), 793-800.

Lee, E.H. (1998). *The Relationship of Fatigue and Hope to Psychosocial Adjustment to Breast Cancer in Korean Women Receiving Post-Surgical Follow-Up Treatment*. The degree of Doctoral of Philosophy in the School of Education, New York University, New York.

Piper, B. F. (1992). *Subjective fatigue in women receiving six cycles of adjuvant chemotherapy for breast cancer*. Doctoral dissertation, University of California, San Francisco.

Reynolds, P. D. (1975). *A Primer in Theory Construction*. 5th ed. The Bobbs-Merrill Company. Indianapolis.

Winningham, M. L. (1992). *The role of exercise in cancer therapy*. In M. Eisinger & R. W. Warson(Eds.), *Exercise and Disease*, 60-73. Boca Raton, FL : CRC Press.

Yarbro, C. H., Frogge, M. H., Goodman, M., & Groenwald, S. L. (2000). *Cancer Nursing-Principles and Practice*. 5th ed. Jones and Bartlett Publishers.

<http://dilibrary.go.kr>

<http://koreanurse.or.kr>

<http://richis.org>

CSA IDS(Cambridge Scientific Abstracts Internet Database Service)

DDOD(Digital Dissertations On Demand)

OVID Medline

ProQuest ARL

- Abstract -

An Analytical Review on Fatigue of Cancer Patients

Lee, Yun-Jung *. Kim, Dal-Sook **

Purpose: The purpose of this study was to discuss and address the state of the knowledge development and the nature of knowledge regarding fatigue.

Method: This study analyzed the 63 fatigue related articles published from 1990 to 2001. The analysis schema was 'Alternative linkages among philosophy, theory, and method for nursing science' (Kim, 1993).

Result: The 63 articles had been studied only within 5 types among all 96 types of linkages. Most of the articles (59 among 63 articles) had been studied within scientific realism and deductive logic. Fifty-three articles among 59 articles were the type of explanatory and predictive theory, grasping reality by the etic method on the controlled setting.

Conclusion: This study suggests more development of knowledge regarding fatigue with various logics, especially with discovery logic such as inductive and retroductive or methods in multiple designs on various subjects under various philosophy needed for nursing practice.

Key words : Fatigue, Neoplasms, Patients

* Department of Nursing, Woosuk University

** Departmnet of Nursing, Chungnam National University