

정신과에 의뢰된 환자 중 수면장애에 대한 ICSD와 DSM-IV 진단 비교

The Comparison of ICSD and DSM-IV Diagnoses in Patients Referred for Sleep Disorders

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ABSTRACT

Background: Sleep disorders are prevalent in the general population and in medical practice. Three diagnostic classifications for sleep disorders have been developed recently: The International Classification of Sleep Disorders (ICSD), The Diagnostic and Statistical Manual, 4th edition (DSM-IV) and The International Classification of Diseases, 10th edition (ICD-10). Few data have yet been published regarding how the diagnostic systems are related to each other. To address these issues, we evaluated the frequency of sleep disorder diagnoses by DSM-IV and ICSD and compared the DSM-IV with the ICSD diagnoses.

Method: Two interviewers assessed 284 inpatients who had been referred for sleep problems in general units of Anam Hospital, holding an unstructured clinical interview with each patient and assigning clinical diagnoses using ICSD and DSM-IV classifications.

Results: The most frequent DSM-IV primary diagnoses were "insomnia related to another mental disorder (61.1% of cases)" and "delirium due to general medical condition (26.8%)". "Sleep disorder associated with neurologic disorder (38.4% of cases)" was the most frequent ICSD primary diagnosis, followed by "sleep disorder associated with mental disorder (33.1%)". In comparing the DSM-IV diagnoses with the ICSD diagnoses, sleep disorder unrelated with general medical condition or another mental disorder in DSM-IV categories corresponded with these in ICSD categories. But DSM-IV "primary insomnia" fell into two major categories of ICSD, "psychophysiologic insomnia" and "inadequate sleep hygiene". Of 269 subjects, 62 diagnosed with DSM-IV sleep disorder related to general medical condition or another mental disorder disagreed with ICSD diagnoses, which were sleep disorders not associated with general medical condition or mental disorder, i. e., "inadequate sleep hygiene", "environmental sleep disorder", "adjustment sleep disorder" and "insufficient sleep disorder".

Conclusion: In this study, we found not only a similar pattern between DSM-IV and ICSD diagnoses but also disagreements, which should not be overlooked by clinicians and resulted from various degrees of understanding of the pathophysiology of the sleep disorders among clinicians. Non-diagnosis or mis-diagnosis leads to inappropriate treatment, therefore the clinicians' understanding of the classification and pathophysiology of sleep disorders is important. *Sleep Medicine and Psychophysiology* 2001 ; 8(1) : 37-44

Key words: Sleep disorders · DSM-IV · ICSD.

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3가 가 (the International Classification of Sleep Disorder, ICSD)(4),
 4 (the Diagnostic and Statistical Manual, 4th edition, DSM -)(5),
 10 (the International Classification of Diseases, 10th edition, ICD - 10)(6)

ICSD가 1991
 ICSD가 (7,8,9,10)
 DSM - ICD - 10
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연구대상 및 방법

1. 연구대상

1999 4 2000 3

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 284
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2. 연구방법

가 2
 3 가
 DSM - ICSD . 2
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 . 1 DSM -
 ICSD 1 (primary
 diagnosis)

SPSS(statistical package for social science for window) version 10.0
 ICSD
 DSM -
 ICSD

결 과

1. 인구학적 특성

466 284
 (61.2%)
 59.6 ± 16.36 , 59 :
 41(: =167 : 116) 가
 (²=
 0.361, df=1, p=0.548). 가
 가
 (F=24.374, p<0.05)(
 1).

Table 1. Patients data with sleep disturbance and without sleep disturbance

Characteristic	Sleep disturbance (N=282)		No Sleep disturbance (N=182)		Analysis	
	Mean	SD	Mean	SD	F	p
Age (year)	59.49	16.38	51.36	18.71	24.374	0
	N	%	N	%		
Below 29	17	6.0	30	16.4		
30 - 49	55	19.2	48	26.4		
Above 50	212	74.8	104	57.2		
	N	%	N	%	²	df p
Female	116	41	80	43	0.36	1 0.5

Table 2. DSM- diagnoses of subjects

Diagnosis	N	% of case
No mental disorder	1	0.4
Primary insomnia	6	2.1
Breathing-related sleep disorder	1	0.4
Dyssomnia NOS	3	1.1
Circadian rhythm sleep disorder	1	0.4
Nightmare disorder	2	0.7
Parasomnia NOS	1	0.4
<i>Insomnia related to another mental disorder</i>		(61.6)
Psychosis ^a	10	3.5
Mood disorder	45	15.8
Anxiety disorder	12	4.2
Alcohol-related disorder	20	7.0
Somatoform disorder	10	3.5
Adjustment disorder	42	14.8
Dementia	35	12.3
Sleep disorder due to general medical condition	19	6.7
Delirium ^b	76	26.8
Total	284	100

a : include schizophrenia and other psychotic disorders
 b : include delirium due to general medical condition

2. DSM-IV에 의한 진단 빈도

DSM - 가 가 “ (insomnia related to another mental disorder, 61.1%) ” , “ (delirium due to general medical condition, 26.8%) ” . “ (Axis) 가 “ (adjustment disorder with depressed mood, 9.2%) ” “ (major depressive disorder, 7.8%) ” . “ (primary insomnia, 2.1%) ” 가 (2).

Table 3. ICSD diagnoses of subjects

Diagnosis	N	% of case
Psychophysiologic insomnia	10	3.6
Obstructive sleep apnea syndrome	1	0.4
Restless leg syndrome	5	1.8
Intrinsic sleep disorder NOS	7	2.5
Inadequate sleep hygiene	12	4.2
Environmental sleep disorder	8	2.8
Adjustment sleep disorder	11	3.9
Insufficient sleep syndrome	3	1.1
Hypnotic-dependent sleep disorder	4	1.4
Alcohol-dependent sleep disorder	2	0.7
Extrinsic sleep disorder NOS	19	3.2
Irregular sleep-wake pattern	2	0.7
Nightmares	2	0.7
Sleep talking	1	0.4
<i>Associated with mental disorder</i>		(33.1)
Psychosis	9	3.2
Mood disorder	46	16.2
Anxiety disorder	19	6.7
Alcoholism	20	7.0
<i>Associated with neurologic disorder & medical disorder</i>		80 28.2
(Delirium)	(79)	(26.8)
Dementia	33	11.6
Total	284	100

3. ICSD에 의한 진단 빈도

ICSD 가 가 “ (sleep disorder associated with neurologic disorder, 38.4%) ” , “ 가 (sleep disorder associated with mental disorder, 33.1%) ” . “ 가 ” “ (mood disorder) ” 가 (16.2%).

4. DSM-IV와 ICSD에 의한 진단의 비교

DSM - (284 14 , 5.1%) ICSD DSM - (breathing - related sleep disorder), (circadian rhythm

sleep disorder), (dysso- , DSM - ICSD 3
 mnia not otherwise specified), (nightmare sleep . 269 62 ICSD
 disorder) (pa-
 rasomnia not otherwise specified) . ICSD DSM -
 DSM - ICSD (62
 DSM - ICSD 10) (environmental sleep diso-
 (14 6) ICSD rder, 62 10) 가 .
 (5) (1) DSM - ICSD 284
 65 , (65 62) DSM -
 DSM - (284 ICSD DSM - ,
 269 , 94.9%) ICSD , ICSD ,
 가 269 207 77.0% , (4, 5).

Table 4. Concordance in DSM- with ICSD diagnosis^a

ICSD	DSM-	Primary insomnia	Dyssomnia NOS	Circadian rhythm sleep disorder	Nightmare disorder	Sleep disorder ass with axis	Psychotic disorder	Mood disorder	Anxiety disorder	Alcoholism	Somatiform disorder	Adjustment disorder	Dementia	Insomnia d/t general medical condition	Delirium
Psychophysilogic insomnia		5													
Restless leg syndrome			3												
Intrinsic sleep disorder NOS															
Inadequate sleep hygiene		1													
Environmental sleep disorder															
Adjustment sleep disorder															
Insufficient sleep syndrome															
Hypnotic-dependent sleep dis															
Alcohol-dependent sleep disorder															
Extrinsic sleep disorder NOS															
Irregular sleep wake pattern				1											
Nightmares					2										
<i>Ass. With mental disorder</i>															
Psychosis							9								
Mood disorder								32				14			
Anxiety disorder									6		3	10			
Alcoholism										20					
<i>Ass. With medical disorder</i>														1	
Dementia													32	1	
Delirium															76

a : Diagnoses with frequency <=1 are not shown

Table 5. Discordance in DSM- with ICSD diagnosis^a

ICSD	DSM-													
	Primary insomnia	Dyssomnia NOS	Circadian rhythm sleep disorder	Nightmare disorder	Sleep disorder ass with axis	Psychotic disorder	Mood disorder	Anxiety disorder	Alcoholism	Somatoform disorder	Adjustment disorder	Dementia	Insomnia d/t general medical condition	Delirium
Psychophysilogic insomnia							3	1		1				
Restless leg syndrome										1	1		1	
Intrinsic sleep disorder NOS						1	1	1			3		2	
Inadequate sleep hygiene							4	1		1	1	2	1	
Environmental sleep disorder							1	1		2	3		3	
Adjustment sleep disorder								1			5	1		
Insufficient sleep syndrome							3						4	
Hypnotic-dependent sleep dis														
Alcohol-dependent sleep disorder							1				1			
Extrinsic sleep disorder NOS										2	1		6	
Irregular sleep wake pattern											1			
Nightmares														
<i>Ass. With mental disorder</i>														
Psychosis														
Mood disorder														
Anxiety disorder														
Alcoholism														
<i>Ass. With medical disorder</i>								1			2			
Dementia														
Delirium														

a : Diagnoses with frequency <=1 are not shown

고찰

가 61.2%

(13)

. Ka-

racan (1) Bixler (2) 13.4~

32.2%, 12~22% 가

, (13) 17.2%, Richard (15)

63.3%, 35.9%

(14)

57%가 (16) Karacan (1)

, Richard (15) Ford (17,18)

80%가 가 가 Bixler (2)

가

(16) Karacan (1) ,
가 가 DSM - ICSD
가 가 (4).
DSM - ICSD
, DSM - ICSD ,
2 4가
가 . DSM - (11). DSM - ICSD 가
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ICSD 4가 DSM -
. Buysse (8) 5 가 가? ICSD
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(44%) (20.2%) 가 ,
ICSD 가 (32.3%) ,
가 가
(12.5%) . Radecki (19) , DSM - ICSD
, ,
가 (, ICSD
30%), (20%) ,
(19%) 31%
. Ford (17) 40.4%가
DSM - 가 , ICSD
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Buyse (8)

ICSD, DSM -

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요 약

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목 적 :

3가

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(the International Cla-

ssification of Sleep Disorder, ICSD),

4 (the Diagnostic and Statistical Manual,

4th edition, DSM -)

10 (the

International Classification of Diseases, 10th edition, ICD -

10) .

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DSM - ICSD

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Daniel Buyse (8)

DSM - , ICD -

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방 법 :

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284

ICSD

