2005 년도 대한불안장애학회 추계학술대회 및 대한정신약물학회 추계연수교육 - 불안장애의 이해와 집중적 치료 전략 -

다른 정신장애와 공존하는 불안장애, 감별과 치료

2005. 10. 8. 대한불안장애학회 및 대한정신약불학회 주계학술대회

분당서울대학교병원 신경정신과 하 태 혁

Brief Review of Biological Therapies for Anxiety Disorders





Mood Disorder & Clinical Affective Neuroscience Lab, SNUBH

Treatment Decision for Panic Disorder

Decision 1 treatment of choice	SSRII	ł	1		
Decision 2 Switching	10000		14782		
Decision 3 Augmentation					
Decision 4 Other options	ŤĊA		RIMA		
Decision 5			Venlafax.	Reboxet.	MS
Decision 6 Experimentat	Pindolol	***			
Decision 7 Long term	Continue, at same dose that achieved remission, for I years, followed by very gradual down-titration				

reatme	ent Decision for SA	D.		
reaume	ait Decision for SA	•		
cision 1	SSRI1			
atment of choic cision 2	50 (vivivivivivi	Venlata:		
itchide cision 3	Buspirone			
gmentation cision 4 her options	HPBZ Gabapen.			
cision 5	Netazod. SNR3			
eision 6 perlinental	Ondansetr. Profesiol NAP			
cision 7 ng term	Continue, at same dose that achieved re followed by very gradual down-titration	mission, for 1 years		
,	Mood Disorder & Clinical Affective Neu	ıroscience Lab, SNUBH		
				
*************		***************************************		
reatm=	ent Decision for PT	SD		
erision I eatment of choic	SSRI			
ericion 3	*			
witching edision 3	NA PAGE			
egmentation ecision 4 ther options	· ·			
ecision 5	Therefore Programme			
ecision 6 operimental	The Kind			
ecision 7 ong Serm	Continue, at same dose that achieved re followed by very gradual down-ditration	imission, for 1 years		
	Mood Disorder & Clinical Affective Neu	aroscience Lab, SNUBH		
		-		
Troatme	ent Decision for OC	מי		
.,	are Decision for Oc			
ecision I	SSRF1			
eatment of chaic ecision 2 witching	* *************************************			
ecision 3	The state of the s	***************************************		
ogmentation ecision 4		Conazep. Inositol		
ther options	VIIIIIIIIIIIIIIII			
necision 4 Other options Decision 5	SCT MORT SURGER	i l	i	
ther options	201 Automoti Surgicial SURGERIA THE TOTAL			

Pharmacotherapy for Anxiety Disorder: Summary

- treatment of choice: SSRI
 1st switching strategy: SSRI
- Differences

	Panic	SAD	PISO	oco
non 5-HT	effective	effective	effective	negative
MS	may	-	may	negative
82	effective	effective	negative	augment

Mood Disorder & Clinical Affective Neuroscience Lab, SNUBH

Comorbidity in Anxiety Disorders

Any anxiety disorder	74.1%
Panic disorder	92.2%
Agoraphobia	87.3%
Social phobia	81.0%
Simple phobia	83.4%
Generalized anxiety disorder	91.3%
Post-traumatic stress disorder	81.0%

Rates of comorbidity among people with lifetime NCS/DSM-III-R anxiety disorder (Kessler et al., 1997)

Mood Disorder & Clinical Affective Neuroscience Lab, SNUBH

Meaning of Comorbidity



Comorbidity	
•	
● Feinstein, 1970	
 any distinct additional clinical entity, that has existed or that may occur during the clinical 	
course of a patient who has the index disease under study	
● into psychiatry	
√ the presence of an antecedent or concurrent psychiatric syndrome, with a hierarchy between the principal diagnosis and the others	
(Strakowsky, 1995)	
✓ distinction of "co-occurrence" (Andrews, 1996)	
Mood Disorder & Clinical Affective Neuroscience Lab, SNUBH	
Definition of Comorbidity	
Two or more disease, with distinct	·
etiopathogenesis (or, if the etiology is	
unkwon, with distinct pathophysiology of	
organ or system), that are present in the	
same individual in a defined period of time (Vella et al., 2000)	
(Vella et al., 2000)	
Mood Disorder & Clinical Affective Neuroscience Lab, SNUBH	
	l
Diagnostic System	
 reliability and validity before DSM-III, e.g. 'anxiety neurosis' 	
low reliability	
• low validity	
✓ DSM-III, DSM-IV, e.g. 'GAD'	
high reliability low volidity	
 low validity DSM-?, e.g. `anxiety associated with 	
psychobiological markers x, y, z'	
high reliability	
high validity	

Diagnostic System and Comorbidity

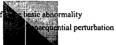
- concept highlighting both the strength and weakness of current diagnostic system (Feinstein, 1970)
- an artifact of diagnostic system? (Maj, 2005)
- complex and confusing pictures in psychiatry
 - high prevalence (anxiety disorders, personality disorders)
 - √ within-category heterogeneity
 - ✓ between-category overlapping constructs
 - √ hierarchical ?
 - ✓ frequent changes in criteria

Mood Disorder & Clinical Affective Neuroscience Lab, SNUBH

Forms of Comorbidity

co-occurrence

Different phenomenology of Key cerebral disturbances



• lifetime comorbidity

Prodrome Complete picture Vulcrability Florid illness



Copying or Decompensation

Mood Disorder & Clinical Affective Neuroscience Lab, SNUBH

Comorbidity among Anxiety Disorders

		Agoropticul	600		
Panic disorder	.mmmag	-	-	-	12.3
Agoraphobia	11.9	-	7.1	8.7	5.8
Social phobia	4.8	-	•	•	3.8
Simple phobia	7.9	-	7.8	-	4.9
GAD	-	-	-	-	-
PISD	3.9	4.2	2.8	3.8	3.9

Odds ratio significant at the 0.05 level (Kessler et al., 1997)

COMORBIDITY with DEPRESSION



Mood Disorder & Clinical Affective Neuroscience Lab, SNUBH

Epidemiology

- frequent than expected
- of patients with lifetime depression
 - √ 47% in ECA study (Reiger et al., 1998)
 - √ 58% in the NCS (Kessler et al., 1996)
 - √ 57% in a meta-analysis (Clark, 1989)
- Odds ratio (Kessler et al., 1996)
 - ✓ 2.9 for SAD
 - √ 4.0 for panic disorder and PTSD
 - ✓ 6.0 for GAD

Mood Disorder & Clinical Affective Neuroscience Lab, SNUBH

Impact of Comorbid Anixety Disorders

- More severe symptoms
- More chronic illness
- Decreased psychosocial function
- Increased work absenteeism
- Greater suicidal potential
- Greater refractoriness to treatment

(Angst, 1993; Bronisch and Wittchen, 1994; Brown et al., 1996; Clayton et al., 1991; Coryel et al., 1992; Emmanuel et al., 1998; Gymes et al., 1999; Kendall et al., 1992; Emmanuel et al., 1993; Lewinsohn et al., 1995; Pawlak et al., 1999; Sartorius et al., 1996; Shafii et al., 1998; Tollefson et al., 1999)

Differentiation

Anxiety	Overlap	Depression		
Hypervigilance, Startle response	Irritability, Apprehension/panic	Depressed mood, anhedonia		
Worries about future	Negative rumination/worry	Rumination about past		
Agoraphobia	Social withdrawal, distress, dysfunction	Loss of interest		
	Agitation	Retardation		
	Insomnia, decreased concentration, chronic pain, GI complaints, fatigue	Weight gain/loss		

Mood Disorder & Clinical Affective Neuroscience Lab, SNUBH

Key Differentiation

- Distinction of Affect
- Two or Three factor model
 - \checkmark High negative affect in both conditions
 - √ Absence of positive affect in depression
 - √ Hyper-arousal in anxiety disorder

Mood Disorder & Clinical Affective Neuroscience Lab, SNUBH

Temporal relationship

- anxiety-to-depression
 - ✓ SAD and simple phobias
 - √ cf) other anxiety disorders: at the same time as or after depression

(Kessler et al., 1996; Schatzberg et al., 1998)

- mechanism proposed
 - ✓ dysfunction in GABA system may ultimately lead to changes in monoamine systems and depression (Roy-Byrne and Katon, 1997)
 - ✓ maternal separation, protest (a prototype of anxiety), then later despair (a prototype of depression) (Bowlby, 1980)
 - early uncertain helplessness in the face of stressors become apparent (Beck, 1967)

Treatment Decisions for Depression

Decision 1 treatment of choice	AD1	AD1 + B2			
Decision 2 Switching	AD2				
Decision 3	Littikum	() t	NAP		********
Augmentation	Pondolo		Acceptant A		
Decision 4 Other options	ECT	LF			
Decision 5	Surgery				
Decision 6 Experimental		VNS			
Decision 7 Long term	Con	tinue, in same	dosage that ach	eved remissi	on

Mood Disorder & Clinical Affective Neuroscience Lab, SNUBH

Treatment issues

- broad spectrum agents
 - ✓ SSRIs
 - ✓ new ADs
- may need higher dose than usual
- trial duration
 - ✓ depression, panic, GAD, PTSD: 6-8 weeks
 - ✓ OCD or SAD: upto 12 weeks



COMORBIDITY with PSYCHOSIS



Mood Disorder & Clinical Affective Neuroscience Lab, SNUBH

Panic in Psychosis

- Epidemiology
 - ✓ in schizophrenia 28-63% (Boyd, 1986; Hofman, 1999; Argyle, 1990)
- Implication of comorbidity
 - ✓ higher rates of MDD, phobia, AN, substance abuse (not GAD and OCD) (Goodwin et al., 2001)
 - ✓ poor rehabilitative outcomes, QOL (Goodwin et al., 2001)
 - ✓ more psychotic symptoms, suicidality (Goodwin et al., 2002)
 - more positive symptoms (Craig et al., 2002), paranoid subtype (Bayle et al., 2001), hostility (Chen et al., 2001)

Mood Disorder & Clinical Affective Neuroscience Lab, SNUBH

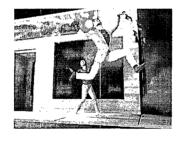
OCD in psychosis

- prevalence in schizophrenia: 1.1% to 59.6% (Hwang, 2005)
 - "Schizo-obsessive"
- Three types suggested (Hwang, 2005)
 - ✓ "psychotic or malignant" OCD
 - often refractory to anti-OC medication
 - ✓ new onset concurrent with schizophrenic onset
 - worse course and prognosis
 - √ transient and varied OC symptoms during course
 - little difference in course and prognosis
- AAPs and OC developments reported

Differentiation	
The Symposom of observative conferentials relatively. Companie of the conference occupantials relatively to the State of	
Z ¹⁰ C Companied of paper shoulder	
anxiety disorders found in	
43-45% inpatients with schizophrenia,	
Ocode (No.22) (A. 10) (A. Albanit Diagnosis	
Craig et al., 2002 Cosoff et al., 1998 more than 90% patients almost none of those were	
with anxiety symptoms recognized and treated were not recognized!	
Mood Disorder & Clinical Affective Neuroscience Lab, SNUBH	
Treatment of Panic Symptoms in Schizophrenia	
Scincopin civa	
Paucity of data	
✓ Quetiapine (Takahashl et al., 2004) ✓ dose reduction of neuroleptics (Hiquchi et al., 1999)	
✓ CBT (Arlow et al., 1997)	
✓ imipramine (Siris et al., 1989) ✓ alprazolam reduced positive and negative	
symptoms (Kahn et al., 1988; Sandberg et al., 1987)	
Mood Disorder & Clinical Affective Neuroscience Lab, SNUBH	
	1
Treatment of OC symptoms in Schizophrenia	
SRIs efficacious in many open label studies	
● controlled studies ✓ Clomipramine	
in a double-blind placebo controlled study (Berman et al., 1995)	
✓ Fluvoxamine	
• in a controlled trial (Reznik et al., 2000) • Clozapine monotherapy may be effective	
√ in second group	
✓ in first group, combination needed (Reznik, 2004)	



COMORBIDITY with BIPOLAR DISORDER



Mood Disorder & Clinical Affective Neuroscience Lab, SNUBH

Epidemiology

- any anxiety disorder lifetime 18-51% (Strakowski and Sax, 1998; Simon et al., 2004; Bauer et al., 2005)
- lifetime prevalence
 - √ GAD 5-32%
 - ✓ OCD 9-35%
 - ✓ Panic disorder 16-37%
 - ✓ PTSD 7-50%
 - ✓ SAD 10-31%

(Simon et al., 2004; Goodwin et al., 2002; McElroy et al., 2001; Strakowski and Sax, 1998; Kruger et al., 1995)

Current and Lifetime Prevalence

	_		Curre			_	_		Uleti				Elevationico.
Anasts Danieles	Bipoter I Desceder Minister		He i 19		(M±475)		ONE REG		N: 115		NH475;		General Possibilies
Aniorty Inchiler Diagnosis	N	3	- N		H	₹.	H	*	- N		N	٠.	47
Any anniety discriber Pawe, disarder Latth or without	123	м 5	2	19 19	345	30.5	199	123	13	46.1	243	50.2	
agresphobia) on elabelgengs	33	9-2	5	4.4	38	20	6.6	11L 3	16	139	æ	1734	3.5
name danieles Secral annaty	20	5.6	1	0.9*	21	44	17	10.3	.1	2.6%	46	6 S [†]	53
disorder Obsessive-communisity	50	14.9	10	87	:.0	12.7	8.1	23-2	25	14.3	364	22.04	0.3
rkearder	24	4.7	3.	2.6	27	5.7	**	10.9		70	47	99	2.5
Pontumenatir, stress disorder	23	64	1	خه و	24	5.1	67	路名	14	12.2	ŔΙ	17.24	73
Generalized assuety disorder	46	12.6	12	10.4	53	23	£3	19.1	19	16.5	47	18.44	5.1

Simon et al., STEP-BD data, 2004

Mood Disorder & Clinical Affective Neuroscience Lab, SNUBH

Impact

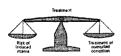
- younger age at onset
- greater suicidality
- severe illness
- poorer functioning
- lower responsiveness to lithium
- worse outcome
 - √ type (GAD, SAD) more important than number
 (Boylan et al., 2004)

(Young et al., 1998; Cassano et al., 1999; Feske et al., 2000; Frank et al., 2000; Simon et al., 2004; Boylan et al., 2004)

Mood Disorder & Clinical Affective Neuroscience Lab, SNUBH

Therapeutic Delimma

- agents that are most effective for anxiety are potentially harmful for bipolar disorders
 - ✓ triggering manic episode
 - ✓ cycle accerelation
 - ✓ precipitating suicidality





Treatment Decision for Panic Disorder Decision 1 treatment of choice SSRI1 Decision 2 Switching MARK. Decision 3 Augmentation Decision 4 RIMA Venlafax. MS Pindoloi Valproic acid (double blind placebo controlled, Guay, 1995) Carbamazepine (uncontrolled study, Uhde et al., 1988) Gabapentin (suggested, Perugi et al., 1999) Mood Disorder & Clinical Affective Neuroscience Lab, SNUBH

OCD and Bipolar Disorder

- mostly bipolar II patients
- more episodic course of OCD
- frequent MDE
- higher rates of sexual and religious obsessions
- higher rates of panic disorder, substance abuse and hospitalization
- less favorable response to anti-OCD treatment (Kruger et al., 2000; Perugi et al., 2002; Hantouche et al., 2002; Raja and Azzoni, 2004)
- Is episodic OCD bipolar? (Swartz and Shen, 1999)

Mood Disorder & Clinical Affective Neuroscience Lab, SNUBH

Case Series of OCD with Bipolar Disorder

Case	Temporer reasion between mond and CCO symptoms	First degree relatives with more dispress	Psychologi symptoms	Current or post andence of meno appendence aduction of (hypolingida by antidepressents	Worsening of OCU sumptoms with anadepressents	improving of OCD symptoms with moco stabilizars or stypical tempsymbolics
,	Yes	Yes	No	Yes	No	,
2	Yes	785	Ne	Yes	No	Yes
3	Yes	789	145	Yes	*46	Tes
4	Yes	No	Yes	Yes	res	Yes
5	Yes	Yes	Yes	Yes	No.	Tex
ŧ	145	Mo	Yes	Yes	No	Yes
?	res	Yes	Yes	Yes	Tes.	765
Case	140 plaky	Heed of Toughtstates	Abrupi cinsel (i CCD symptome	Symptom publics	Suicidal imeni	Course
	tto ott	Кэ	Yes	Error obsessions, checking	re;	Eprinde
2	Yes	Yes	Yes	Doubts, med for pregision, checking	Yes	Continuous
5	764	No	745	Sometic concern, evolutions	Yes	Contracts
4	ter-	Y65	165	Contemination, cleaning	Y 965	Deteronative
5	769	Yes	Ves	Contemporation, checking	r'es	Continuous
ŧ	No	Yes	Yes	Contemporation, slietoing	Yes	Description
?	Yes	Yes	Yes	Sometic concern, shedring	√es	Continuous

Raja and Azzoni, 2004

hierarchical priority of a bipolar diagnosis

Differentiation	
atypical features of bipolar spectrum disorders	
✓ more unrecognized bipolar than anxiety	
√ therefore, reconsider diagnosis in resistant cases with anxiety	
cases with anxiety	
• the course of the target anxiety symptom ?	
✓ associated with mood episodes	
✓ cycling with full remission	
-,	
Mood Disorder & Clinical Affective Neuroscience Lab, SNUBH	
Treatment	
first goal should be mood stabilization	
combination	
✓ of mood stabilizers	
✓ of AAPs	
• HPBZ	
● ECT	
SSRIs or RIMA with extreme cautions	
SSKIS OF RIMA WITH EXTREME CAUTIONS	
,	
Mood Disorder & Clinical Affective Neuroscience Lab, SNUBH	
Conclusion	
comorbidity predicts worse course and needs	
special therapeutic options	
• precise diagnosis: Do not miss!	
✓ current system: not hierarchical	
✓ therefore, structured interview (at least, screening questions) should be used	A STATE OF THE STA
hypothetical hierarchy can be made by	
thorough evaluation of longitudinal course	
broad spectrum agents are preferred, with	
cautions of drug-drug interactions and impacts of the medication on the course	
psychosocial approach should be considered	
Mood Disorder & Clinical Affective Neuroscience Lab, SNUBH	