

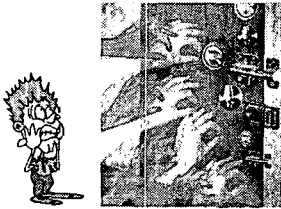
2005 년도 대한불안장애학회 추계학술대회 및 대한정신약물학회 추계연수교육
 - 불안장애의 이해와 집중적 치료 전략 -

**다른 정신장애와 공존하는
불안장애, 감별과 치료**

2005. 10. 8.
 대한불안장애학회 및 대한정신약물학회 추계학술대회

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**Brief Review of Biological Therapies for
Anxiety Disorders**



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Treatment Decision for Panic Disorder

Decision 1 Treatment of choice:	SSRI1				
Decision 2 Switching	SSRI1	SSRI2	SSRI3		
Decision 3 Augmentation	SSRI1				
Decision 4 Other options	TCA	MAOI	RIMA		
Decision 5	SSRI1	SSRI2	Venlafax.	Reboxet.	MS
Decision 6 Experimental	Pindolol	SSRI1			
Decision 7 Long term	Continue, at same dose that achieved remission, for 1 years, followed by very gradual down-titration.				

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Treatment Decision for SAD

Decision 1 Treatment of choice	SSRI1				
Decision 2 Switching	SSRI2	MAOI	RIMA	Venlafax	
Decision 3 Augmentation	Risperidone				
Decision 4 Other options	HPBZ	Gabapen.			
Decision 5	Refused.	SNRI			
Decision 6 Experimental	Ondansetr.	Trifluoro	NAP		
Decision 7 Long term	Continue, at same dose that achieved remission, for 1 year, followed by very gradual down-titration.				

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Treatment Decision for PTSD

Decision 1 Treatment of choice	SSRI				
Decision 2 Switching	AP				
Decision 3 Augmentation	NAP	NAP			
Decision 4 Other options	MS	NAP	Refused.	Refused.	
Decision 5	Refused.	Clonidine	Progesterone		
Decision 6 Experimental	TRK1	TRK2			
Decision 7 Long term	Continue, at same dose that achieved remission, for 1 year, followed by very gradual down-titration.				

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Treatment Decision for OCD

Decision 1 Treatment of choice	SSRI1				
Decision 2 Switching	SSRI2	Clomipramine			
Decision 3 Augmentation	NAP	TRK1	SSRI + Clomipramine	Clomipramine	
Decision 4 Other options	Ly. Clomipram.	Trifluoro	NAP	Clonazep.	Inositol
Decision 5	ECT	Anti-Androgen	Surgery		
Decision 6 Experimental	SSRI + Risperidone	TRK2	TRK3		
Decision 7 Long term	Continue, at same dose that achieved remission, for 1 year, followed by very gradual down-titration.				

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제 5 부 다른 장애와 공존하는 불안장애

Pharmacotherapy for Anxiety Disorder: Summary

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

● Differences

	Panic	SAD	PTSD	OCD
non 5-HT	effective	effective	effective	negative
MS	may	-	may	negative
BZ	effective	effective	negative	augment

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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)

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Meaning of Comorbidity



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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)

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Definition of Comorbidity

- **Two or more disease, with distinct etiopathogenesis (or, if the etiology is unknown, with distinct pathophysiology of organ or system), that are present in the same individual in a defined period of time (Vella et al., 2000)**

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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 validity
 - ✓ DSM-?, e.g. 'anxiety associated with psychobiological markers x, y, z'
 - high reliability
 - high validity

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COMORBIDITY with DEPRESSION



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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

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Impact of Comorbid Anxiety 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; Coryell et al., 1992; Emmanuel et al., 1998; Gaynes et al., 1999; Kendall et al., 1992; Kessler et al., 1994; Levitt et al., 1993; Lewinsohn et al., 1995; Pawlak et al., 1999; Sartorius et al., 1996; Shafii et al., 1998; Tollefson et al., 1993)

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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

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Key Differentiation
<ul style="list-style-type: none"> ● Distinction of Affect ● Two or Three factor model <ul style="list-style-type: none"> ✓ High negative affect in both conditions ✓ Absence of positive affect in depression ✓ Hyper-arousal in anxiety disorder

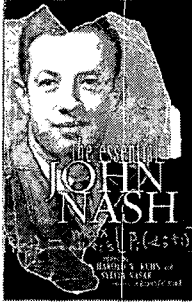
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Temporal relationship
<ul style="list-style-type: none"> ● anxiety-to-depression <ul style="list-style-type: none"> ✓ SAD and simple phobias ✓ cf) other anxiety disorders: at the same time as or after depression (Kessler et al., 1996; Schatzberg et al., 1998) ● mechanism proposed <ul style="list-style-type: none"> ✓ 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)

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COMORBIDITY with PSYCHOSIS



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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)

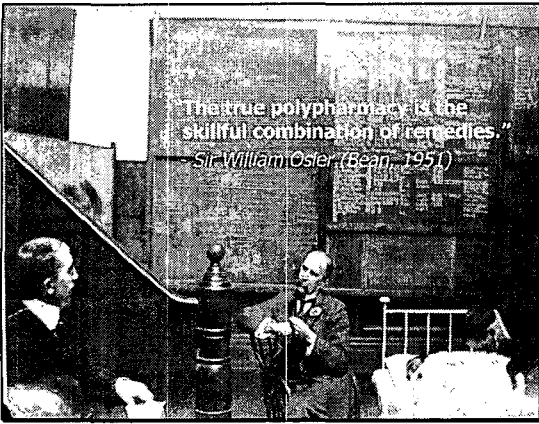
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OCD in psychosis

- 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

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COMORBIDITY with BIPOLAR DISORDER

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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)

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Current and Lifetime Prevalence

TABLE 2. Current and Lifetime Anxiety Disorder Comorbidity in Bipolar Disorder Patients Enrolled in the Systematic Treatment Enhancement Program for Bipolar Disorder (STEP-BD) by Bipolar Subtype and Relative to the General Population

Anxiety Disorder Diagnosis	Bipolar I Disorder (N=112)				Bipolar II Disorder (N=66)				Full Sample (N=178)		Lifetime Prevalence General Population (N=1,000)
	N	%	N	%	N	%	N	%	N	%	
Any anxiety disorder	125	14.2	22	19	145	38.5	196	52.5	51	48.1	24.3
Specific disorders											
with or without comorbidity	33	9.2	5	4.4	18	8.0	66	16.1	119	62	17.3 ^a
panic disorder	20	5.4	1	0.9	21	4.4	17	10.3	1	2.0 ^b	4.0
social anxiety disorder	50	14.0	10	8.7	16	12.7	81	21.2	21	18.3	11.4
obsessive-compulsive disorder	24	4.2	3	2.6	27	5.7	19	9.9	6	7.0	9.0 ^c
posttraumatic stress disorder	23	4.4	1	0.9 ^d	24	5.3	67	18.0	14	12.2	8.1
generalized anxiety disorder	42	12.0	12	10.4	28	23	62	15.1	19	16.5	10.4 ^e

^a From the National Comorbidity Survey (NCS-1). Data are based on the Epidemiologic Catchment Area study file.
^b Significantly different than rate for bipolar I subgroup (p=0.01). Fisher's exact test.
^c Not available for any anxiety disorder as defined.
^d Significantly different than rate for general population (p=0.001). Fisher's exact test.
^e Different from rate for bipolar I subgroup (p=0.0004) and significantly higher than rate for general population (p=0.0002). Fisher's exact test.
^f Significantly different than rate for general population (p=0.0002). Fisher's exact test.

Simon et al., STEP-BD data, 2004

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Impact

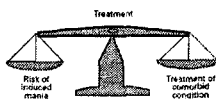
- younger age at onset
- greater suicidality
- severe illness
- poorer functioning
- lower responsiveness to lithium
- worse outcome
 - ✓ type (GAD, SAD) more important than number (Boylan et al., 2004)

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

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Therapeutic Delimma

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



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Differentiation

- atypical features of bipolar spectrum disorders
 - ✓ more unrecognized bipolar than anxiety
 - ✓ therefore, reconsider diagnosis in resistant cases with anxiety
- the course of the target anxiety symptom ?
 - ✓ associated with mood episodes
 - ✓ cycling with full remission

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Treatment

- first goal should be mood stabilization
- combination
 - ✓ of mood stabilizers
 - ✓ of AAPs
- HPBZ
- ECT
- SSRI or RIMA with extreme cautions

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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
- 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

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