

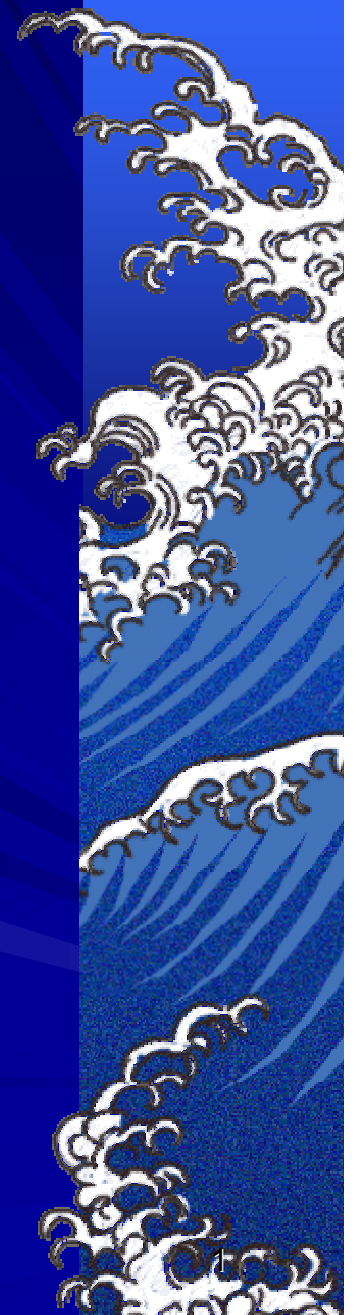
The new trends in cognitive
behavior therapy for anxiety
disorders:

Acceptance and Commitment Therapy

Hiroaki Harai, M.D.

Nagoya Mental Clinic

Kikuchi National Hospital, Division of Clinical Research



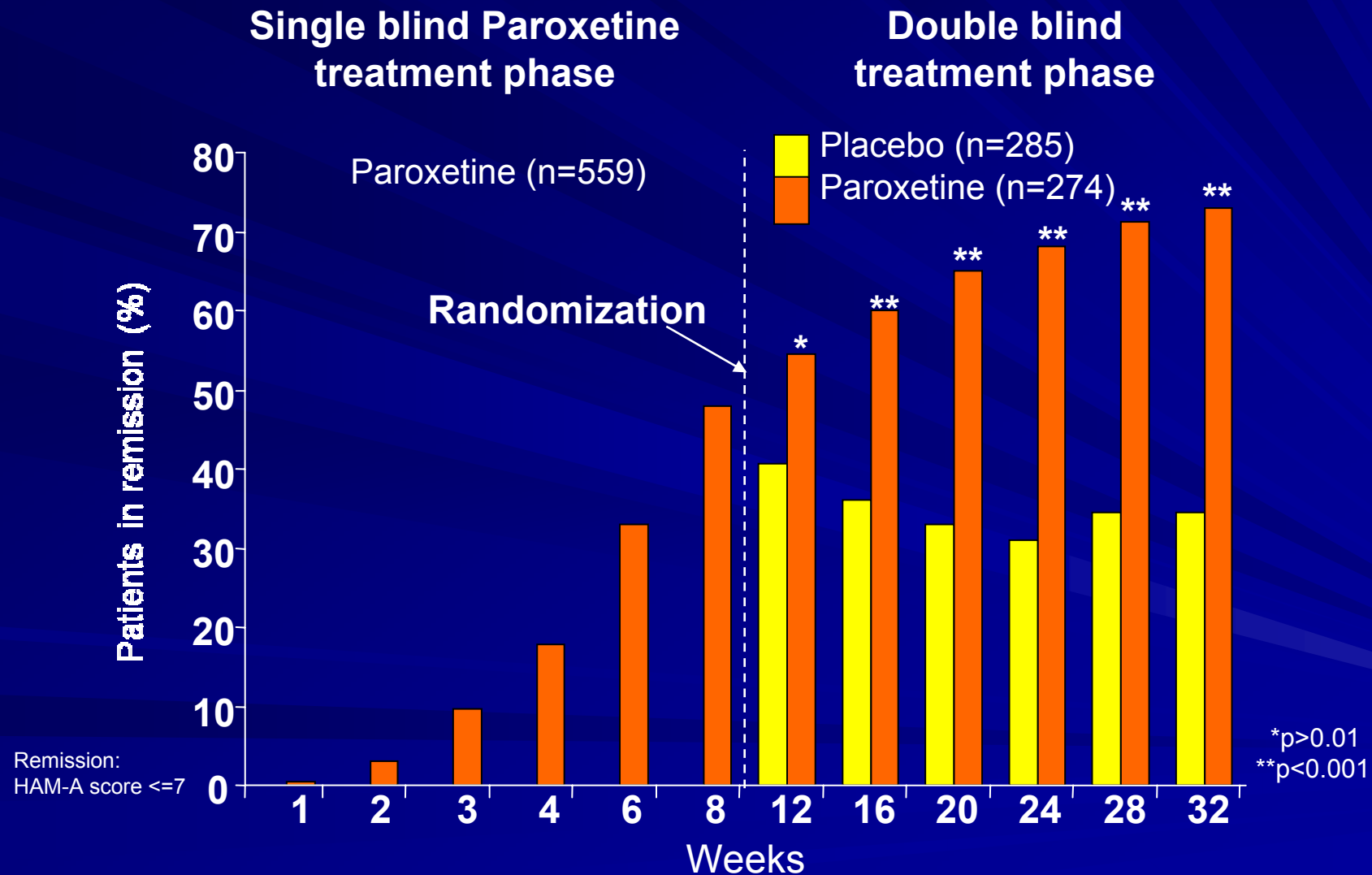
Declaration of interest

- The speaker's has/had research contracts with Fujimoto, GSK, Janssen, Lily, Mochida, Shinogi, Solvey, Suntory, UCB, Wyth, for last 5 years.
 - Have been involved in around two dozen antidepressant trials.
- This is a Luncheon seminar sponsored by GSK.

Warning

This presentation may cause disgust

Efficacy of paroxetine for the long term treatment of Generalized Anxiety Disorder



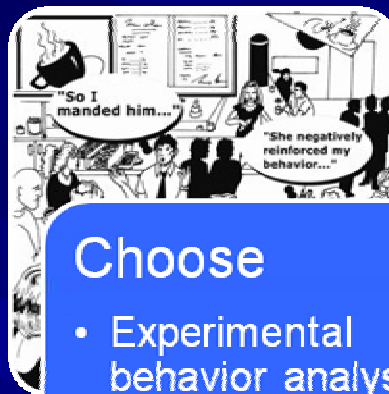
Acceptance and Commitment Therapy

- Steven C. Hays, Kelly G. Wilson
 - Acceptance and commitment therapy: Altering the verbal support for experiential avoidance.
 - Behavior Analyst Vol.17, No.2, 1994
- Steven C. Hays, Kirk D. Strosahl
Kelly G. Wilson
 - Acceptance and commitment therapy:
An experiential approach to behavior change
 - Guilford Press 1999



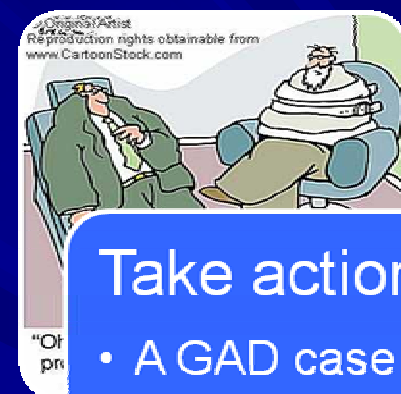
Accept

- Unwanted research evidences
- Undesirable health care outcomes



Choose

- Experimental behavior analysis
- Rule governed behavior / contingency shaped behavior



Take action

- A GAD case
- After ACT
- Why placebo works
- Future

© Original Artist
Reproduction rights obtainable from
www.CartoonStock.com

© Mike Baldwin / Corbis

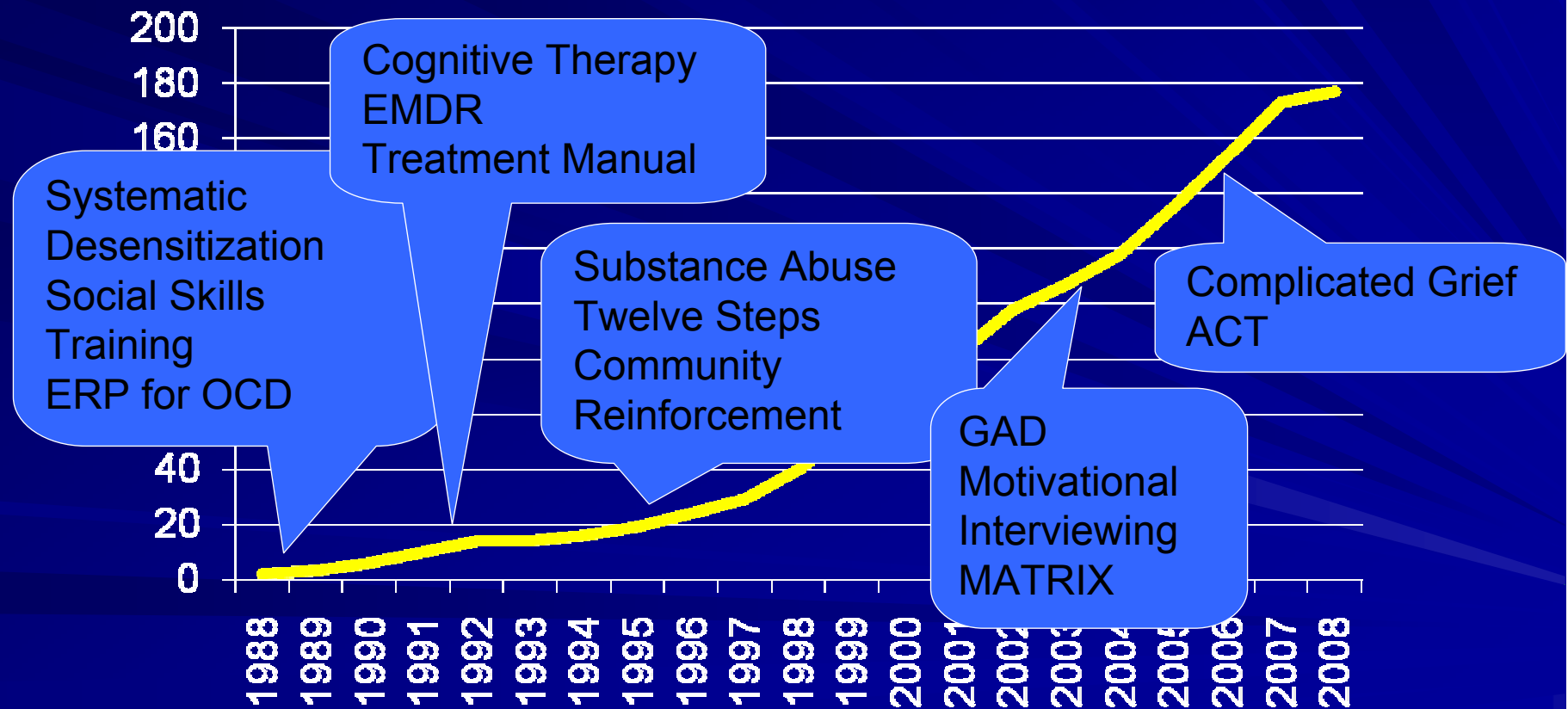
BALDWIN



"I don't care about your stinking study.
This time, it better not be the placebo."

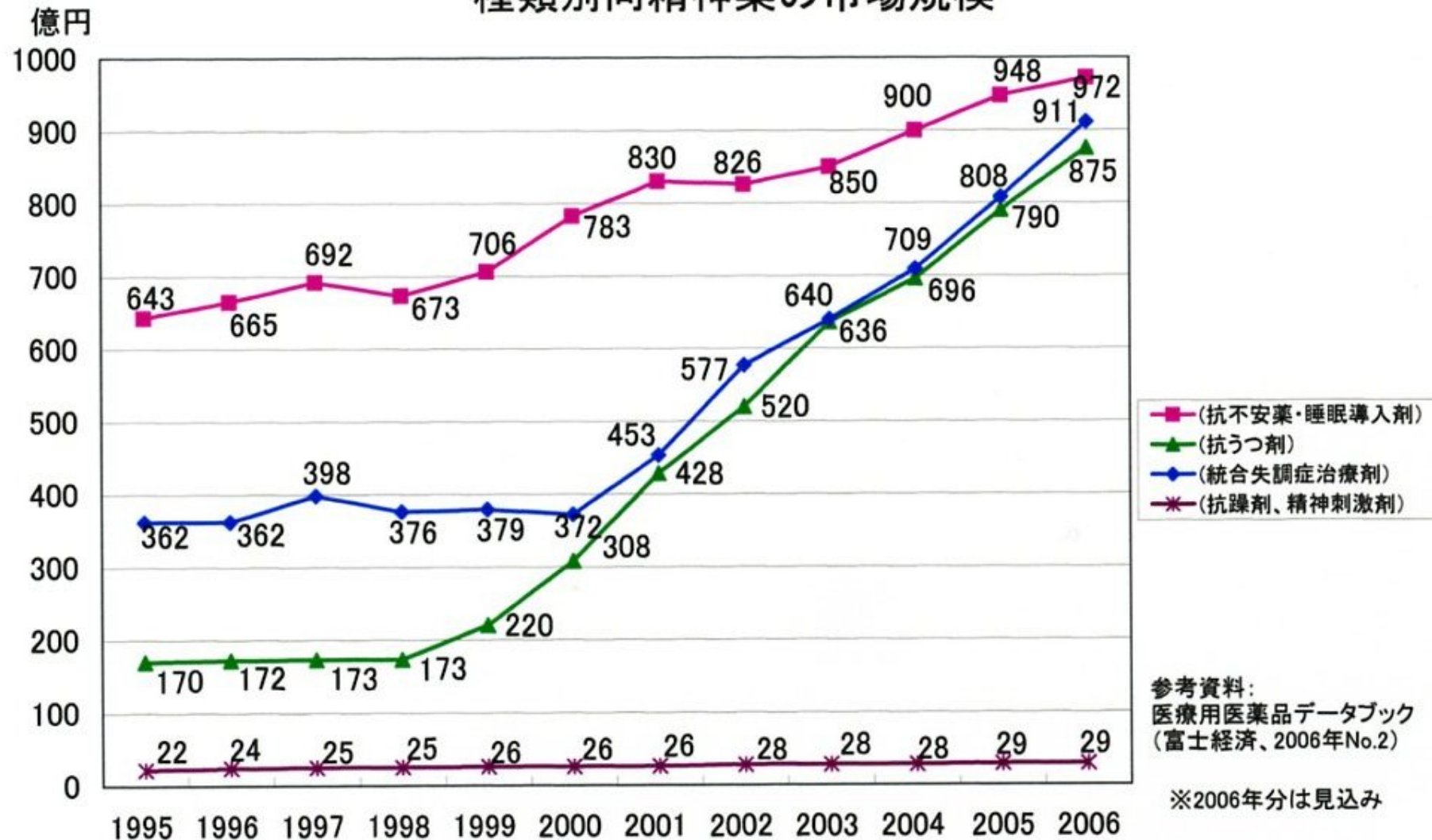
Scientists are optimistic

■ Cumulative record of my presentations

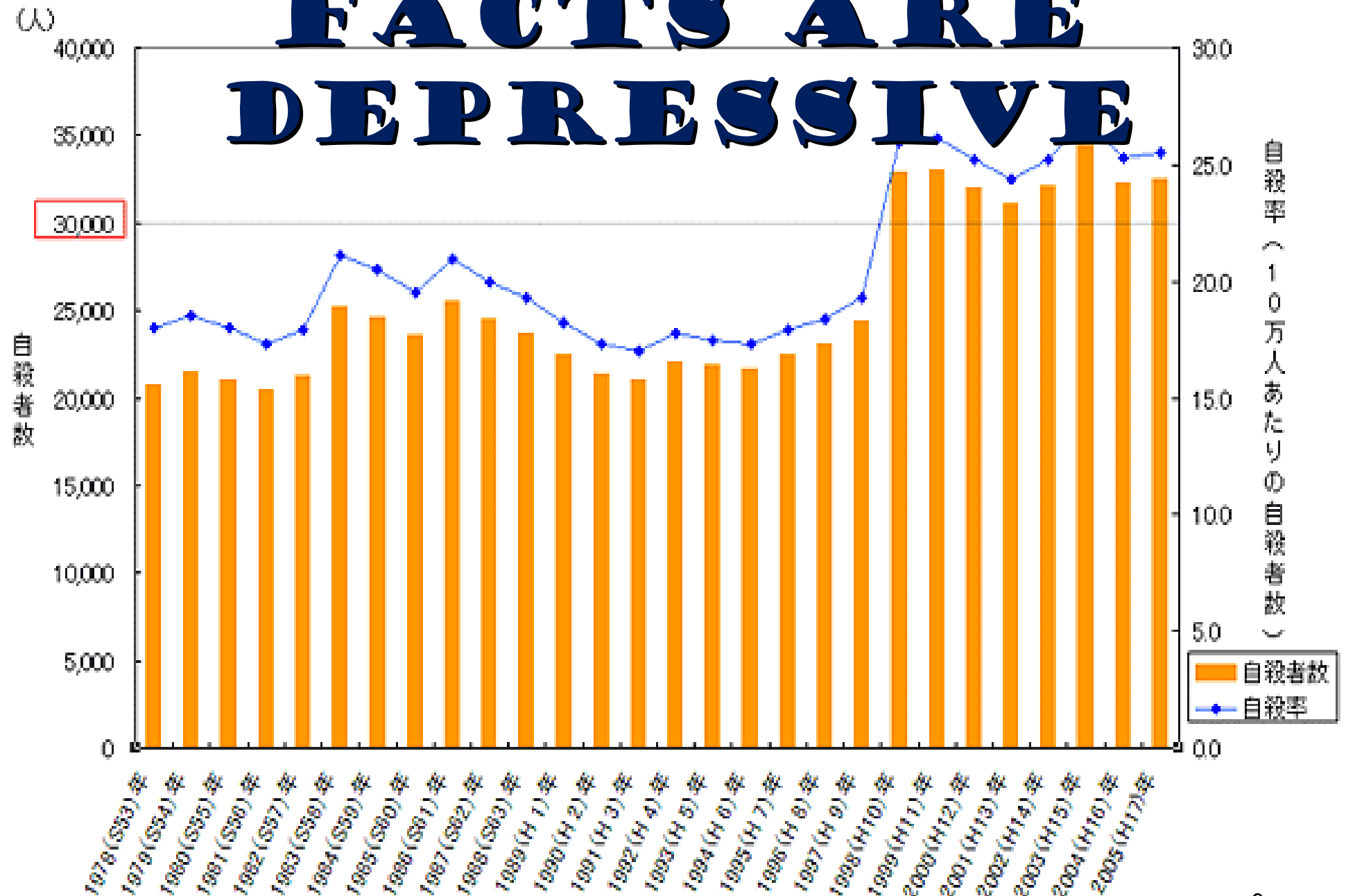


Big pharmas are too

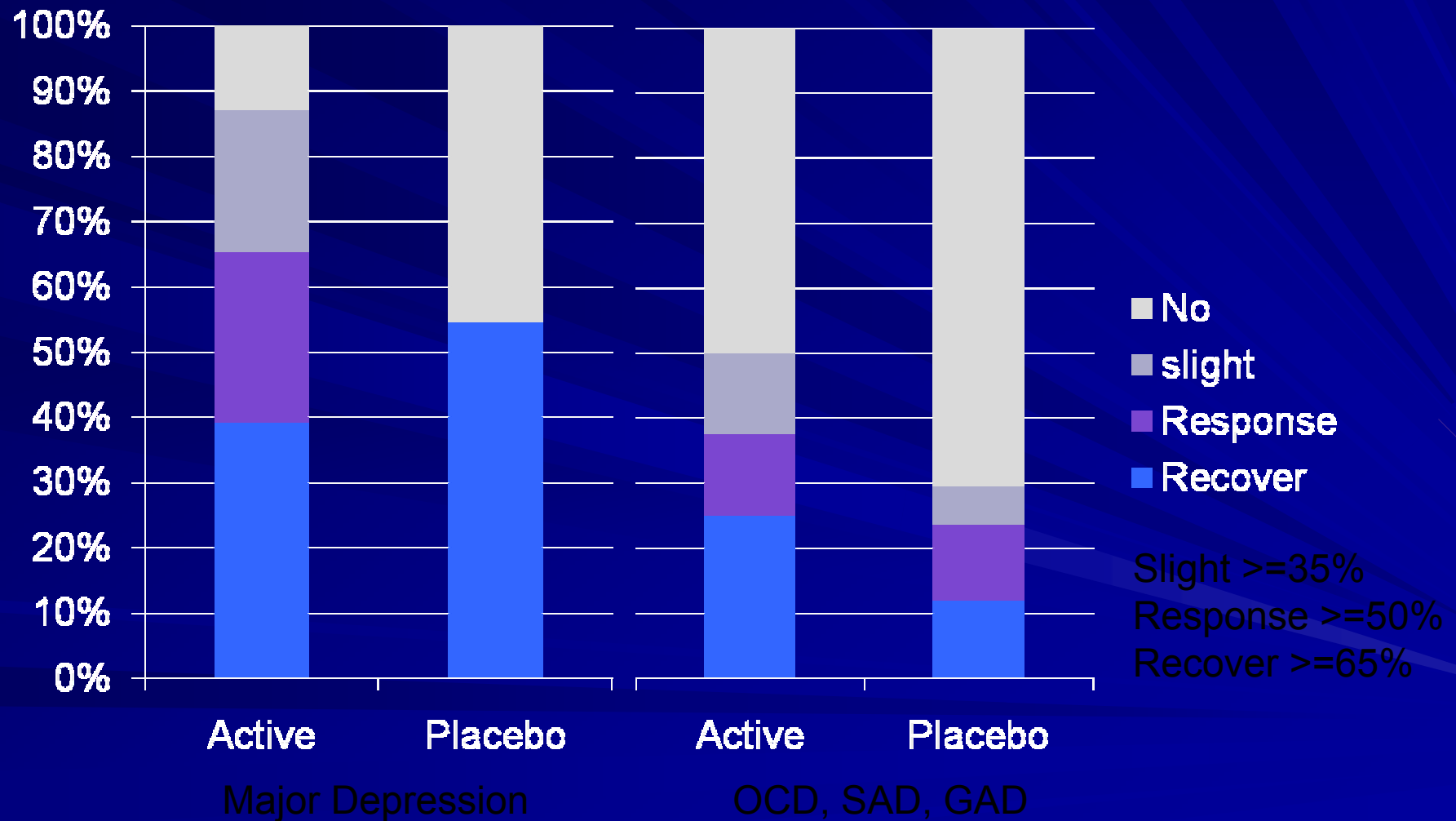
種類別向精神薬の市場規模



FACTS ARE DEPRESSIVE

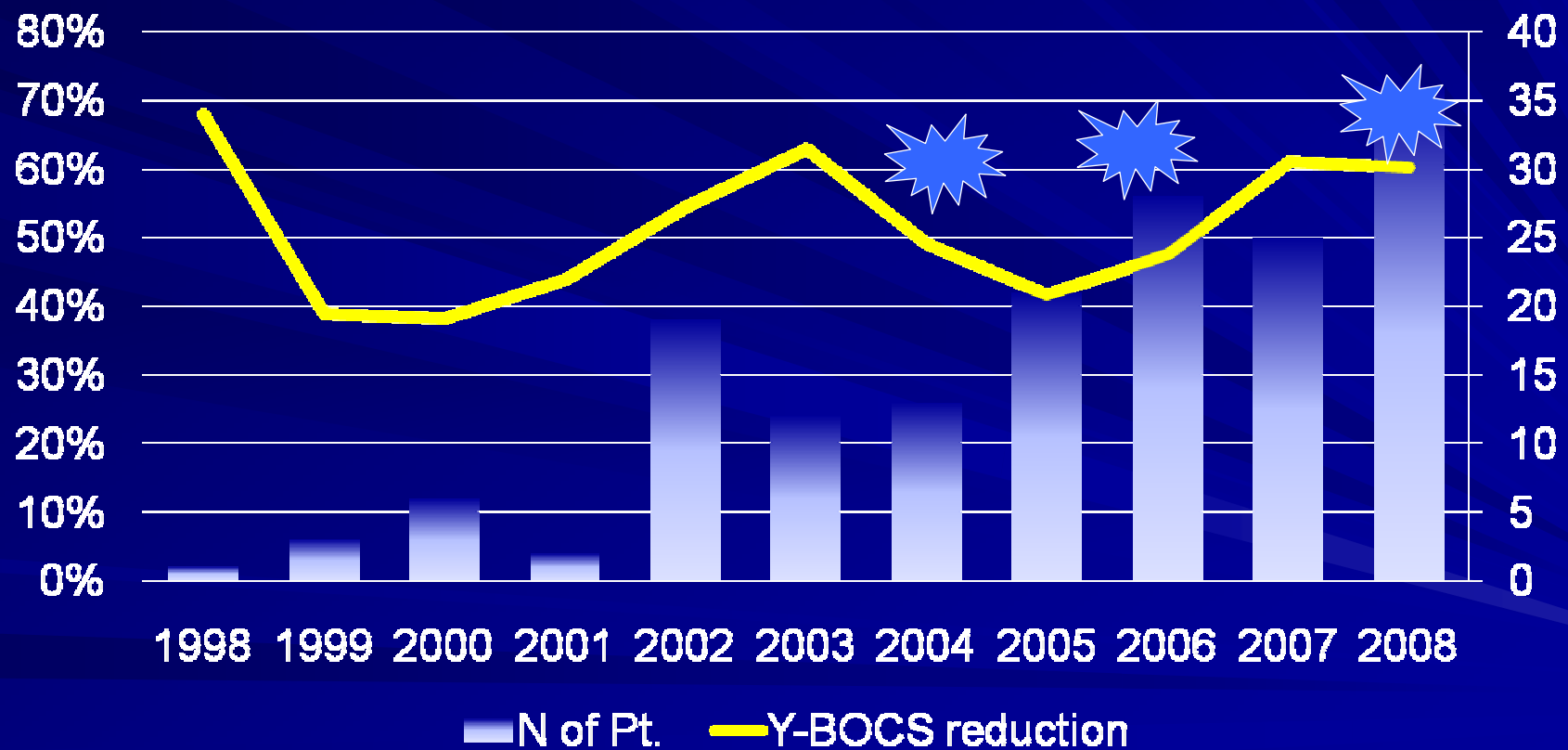


DO MED WORK?



DO I IMPROVE?

■ My treatment outcome on OCD



What are your thoughts?

- Accept the facts?
- Deny the facts?
 - My own clinical experience tells...
 - The subjects were not appropriate.
 - Dr. Harai is hostile to meds.
- And start collecting supporting arguments,
“Because, he is a behaviorist doing scary
exposure to patients.”

Accepting

LANGUAGE Scientific

- Number of
 - Mental disorders
 - Therapeutics; Drugs CBTs
 - Evidence

FACT Experienced

- Suicide : Increased
- Antidepressants
 - Placebo drift
- My CBT:
 - The same outcome
- Patients: Increased

So far we are not good at controlling
the outcome by Science = Language

Categories
Rules
Chemicals

Methods
Knowledge



Verbal Behavior

- Behavior analysis sees function, not content of language

MAND

Order, command

TACT

describe, observe

- If you deny the previous slides;
 - Gee, shut up. I am not interested.
- If you accept;
 - I feel uneasy. He is testing me. Wonder the consequences.

RULE

- A kind of *TACT* which describes contingency.
 - If you listen, your GAD pt will get better.
- *RULE* following behaviors
 - *PLIANCE* : compliance to established rules given from our language community
 - *TRACKING* : following one's arbitrary rules
 - *AUGMENTING* : enhance the valence of future reinforcer or punisher

RULEs in medical language community

- You should do this, if not, you would be punished.

Informed consent, GCP, EBM, Guidelines

- You should not do this, if you did, you would be punished.

Ethical codes, Risk managers, Law suits,
Defensive Medicine

Describing
Negative Contingency

Reality is

- Most of the rules produced everyday are descriptions of negative contingency.
- And language cause conditioned emotional response. (CER)

Not to me

Only to Poor
Colleagues in US

The patient is
exceptional

I am in mental
Health, not surgery

Budget Cut

It is my spouse
Who manages

My area is OK

Ho

It is not my fault

Uninsured

911

Shrinker

We learn from

#1 *RULE*

- Rule governed behavior
- You can avoid disappointment, surprise, variability like “Try and Error”

#2 Direct experience

- Contingency shaped behavior
- You expect disappointment, surprise, unexpected variability

■ Our emotional resilience on which?

Which is your choice as a lover?

Rule governed

- Read all literature on love

Do you have high level of oxytocin?
The hormone associated with the ability to maintain healthy interpersonal relationships.

Contingency shaped

- Read only what you want to hear, not what you need to hear.

Willing to be rejected, I don't care about what would happen to me tomorrow.
I know love is unpredictable . I just can not resist saying I love you.

Language is two-edged

Based on arbitrary learning
within relational frames

Relational Frame

Theory

- stimulus equivalence
- bi-directional relations

- rule governed behaviors
- transformation of functions

■ Evolutionary
advantage

■ Expands the ability to
feel, predict,
categorize & evaluate

■ Makes behavioral
avoidance possible
and cognitive
dominance

■ Experiential
avoidance and
cognitive fusion

■ Amplified by culture

Stimulus Equivalence

- A computer worm is a self-replicating computer program. It uses a network to send copies of itself to other nodes (computer terminals on the network) and it may do so without any user intervention.
- Worms almost always cause harm to the network.

How do you feel?

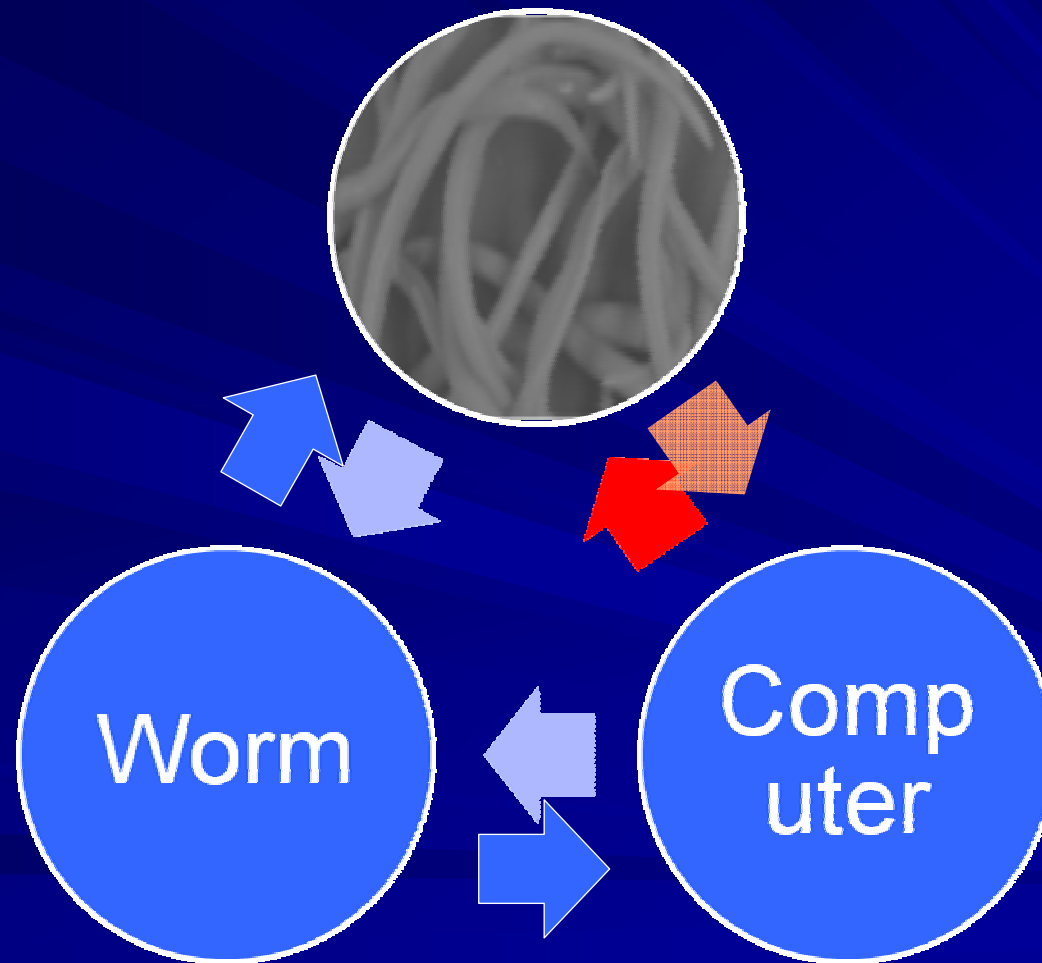


How do you feel now?

- A computer worm is a self-replicating computer program. It uses a network to send copies of itself to other nodes (computer terminals on the network) and it may do so without any user intervention.
- Worms almost always cause harm to the network.

Stimulus Equivalence

Experimental Behavior Analysis of Verbal Behavior






With this ability

- We can make a warning against a new cyber attack in a efficient way.
- Also, our emotions, love, danger, anxiety, depression, obsessions, worries.

However

- I feel sorry for *Ascaris lumbricoides*. They are never responsible for spams, Trojan horses, and phishing.

RULES in language

-  spread by exploiting vulnerabilities in OS. Install regular security updates, then the majority of  are unable to spread.
- I love you  tricks you into running a malicious code. The use of a firewall is recommended.

Dominance of emotionally charged *RULES* cause

- Fusion with your thoughts
 - Language cause emotional response. You avoid word. Euphemism in your mind.
- Evaluation of experience
 - Judge by rules. Language loves dichotomy
- Avoidance of your experience
 - Human is good at avoiding direct experience
- Reason giving for your behavior
 - Most skilled are politician, administrators

Even a worm will turn

Original Artist
Reproduction rights obtainable from
www.CartoonStock.com



“Oh, now I get it. So, you don’t have a problem. You’re not crazy; everyone else is. Is that how you see it?”

Clinical Case

39 yrs old female, divorced, works full time as a psychiatric nurse

CC :Worry if I were a schizophrenic. Feel depressed and tense. Want to take Cognitive therapy

PH: Post partum depression

Clinical Case (cont.)

History of PI : Age 35, promoted to a supervisor. Started to worry about criticism in work place, and her child.

Visited a local psychiatrist, prescribed various drugs. No change.

Diagnostic Considerations:

Generalized Anxiety Disorder

HAM-A 22

Generalized Anxiety Disorder

- Persistent worrying, anxiety symptoms, and tension
- The most frequent anxiety disorder in primary care, 22% patients who complain anxiety
- Natural course is characterized as chronic with few complete remissions.
- Substantial comorbidity particularly with depression.
- It has been acknowledged for centuries, and the oldest among anxiety disorders.
The nature and treatment for GAD is less clear than other anxiety disorders(Kessler, 2000).

Treatment strategy

- CBT

- Pharmacotherapy

- Paroxetine
- And/Or Scheduled use of long acting benzodiazepine

- For patients abusing prn short acting agents

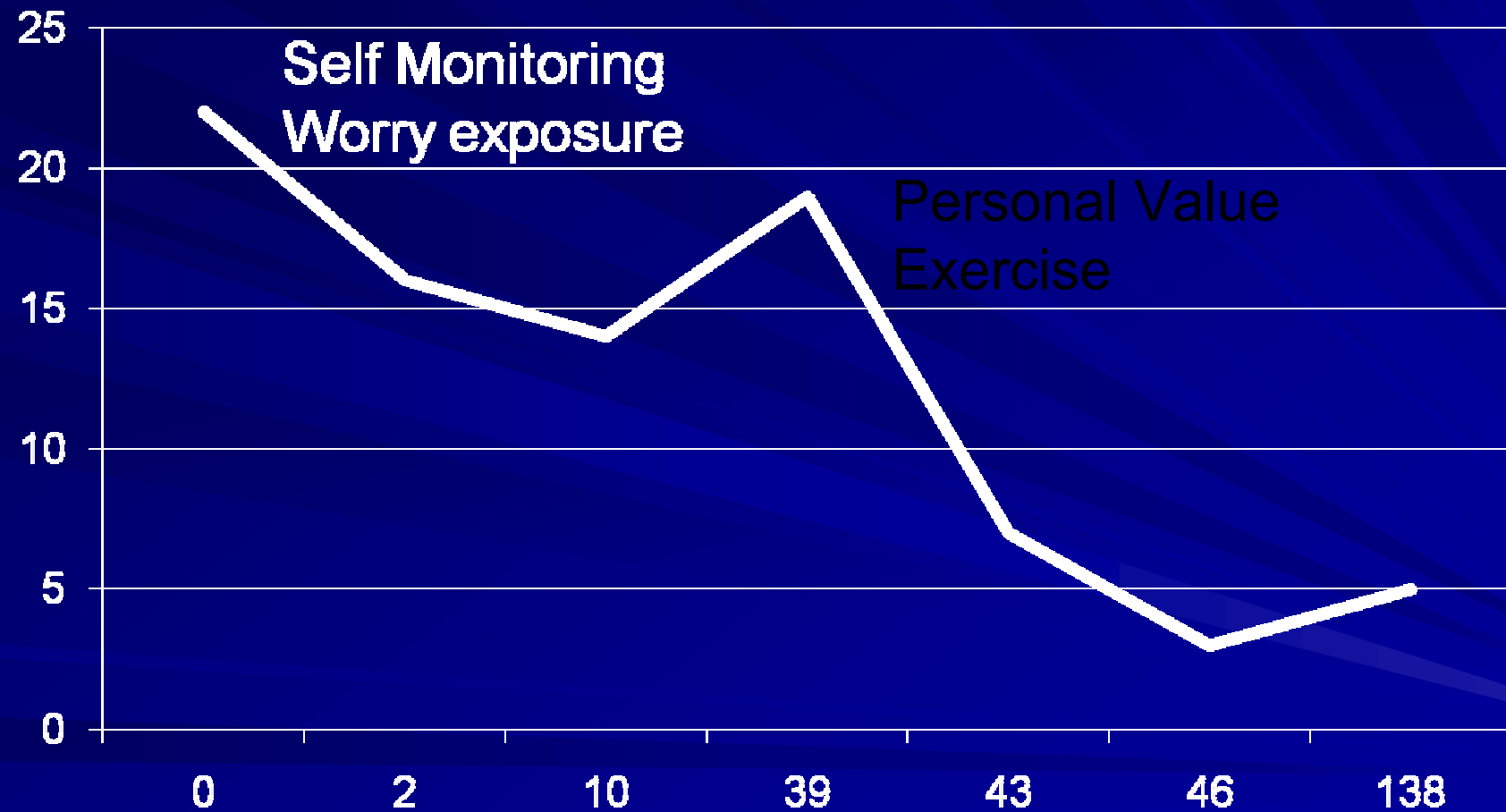
- “Benzodiazepine control therapy”

- BZ is effective to suppress autonomic hyperactivities, whereas it has anti-exposure property and no effect on worry.
 - However, patients often use BZ when they feel anxious, that is when they have a worry.
 - Prevent private event contingent use of BZ.
 - Facilitate scheduled use of long acting BZ.

Behavior Therapy

- Daily self monitoring of worry and physical symptoms
- Activity scheduling
- Clinical interviewing focusing accepting uncertainty in life, choosing personal goals, and taking action.
- Etiological models of GAD (Ladouceur 1998) were explained.
 - Intolerance of uncertainty, Beliefs about worry, Poor problem orientation, Cognitive avoidance.
- During the interview, interviewer intentionally overly reflects the worry contents of the patient.
- This conversation is based on the skills of Motivational Interviewing. It is intended to conduct worry exposure with an empathic atmosphere.

Course of HAM-A



Attending your own funeral



Her ideal condolence

- Socialized and active for 24 hours a day, 7 days a week.
- Sleep less than 6 hours, personal time is minimal, never idle away a second.
- Understand the most complicated order in a second, never needs other's help.
- Others always admire and respect her.
- A true role model for our entire society.

A week later

- Now I see what my friends have told me for 10 years.
- I am no longer obsessed my ideal.
- I can have more realistic goals. I can appreciate small achievements I made for these months.
- Doc, give me more advice. You are a great therapist.

Behavior Analysis of Worry

- A *TACT* describes unwanted events in the future.

Trigger

- Bad news in media
- Bodily sensation
- Mediocre dull life



Emotion

- I don't want this
- Desire, Anxiety



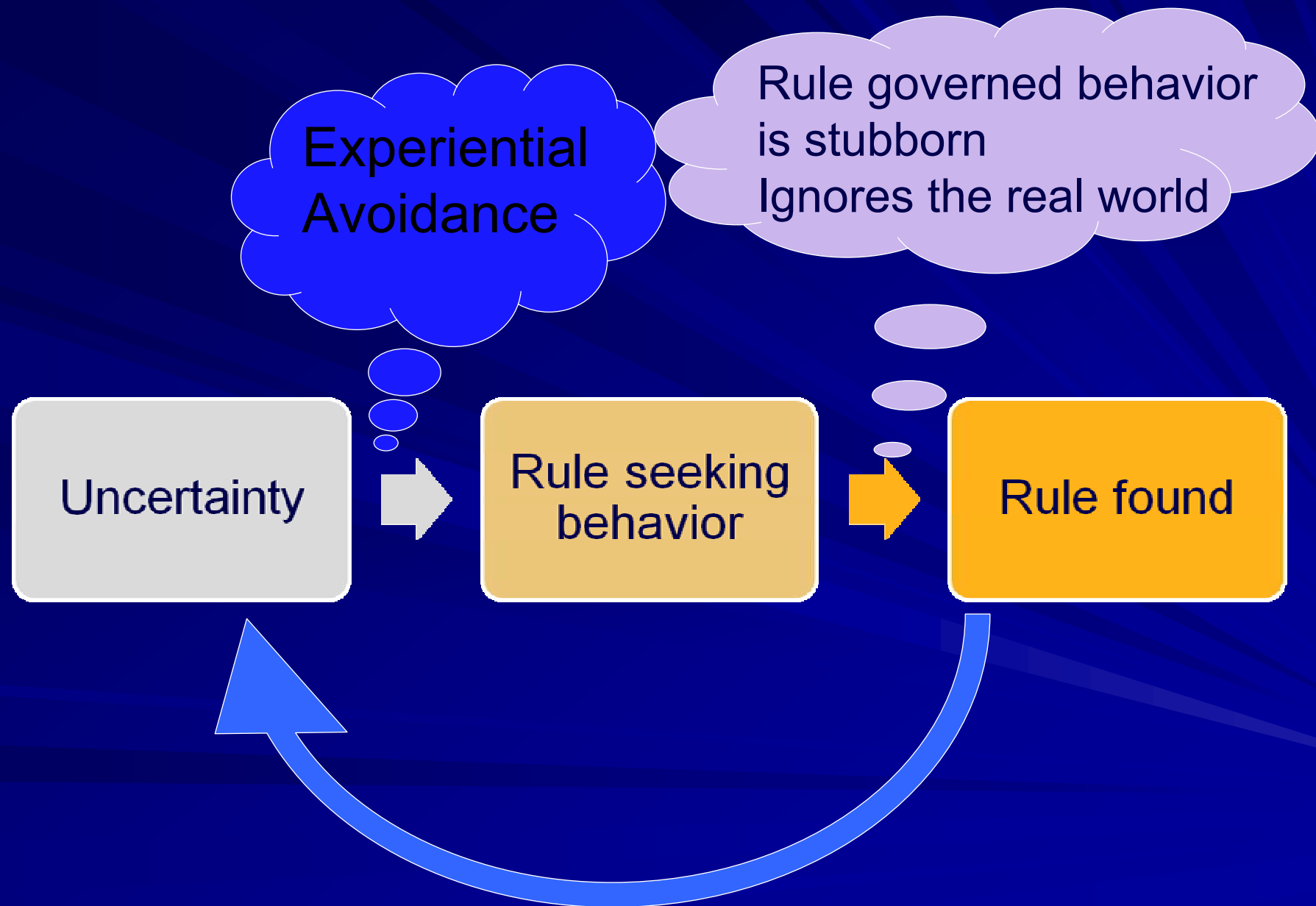
Worry: Thinking about

- How "I don't want this"
- Why "I don't want this"
- What else "I don't want"



Rule seeking

- Doc, give me more advice



Even a worm will turn

Even a worry will turn you down



You are suffering from leukemia

You only have 2 months before death
Choose one

■ Many issues to solve

- If unsolved, I will regret
- If left as it is, I will be depressed.
- If exacerbate, I will be inept.
- If no key to solve, I will die.

■ Future

- Don't know
- Now is important.

■ What is important

- Find the best, certain predictable rules

■ Today's goal

- Willingly experience worry, future mishaps

■ Future goal

- Take care of my kids.
- Eat, sex, move,
- Consume two months.
- Look back the past.

■ What is not important

- Advice, rules, certainty

Her personal accounts after tx

- I was convinced that I was schizophrenic.
- Reading CT books changed nothing.
- Tx was self monitoring, worry exposure, listing personal values. Accepting symptoms and worrying willingly were a goal, but it was painstaking.
- Now, I realized that there is a place in the society even for me. Accept what I am.

<http://homepage1.nifty.com/hharai/gad&pd/gad1.html>

Other cases of GAD

HAM-A					
	Age	Medication	Baseline	After	Reduction
F	38	Px	22	5	0.77
F	44	Px+BZ	32	4	0.88
F	47	Px	23	6	0.74
F	30	Px	32	6	0.81
F	68	BZ	16	6	0.63
M	36	Px	23	5	0.78

Px: Paroxetine BZ: Benzodiazepine

Discussion

- As the table show our treatment program accepted and worked well for GAD patients.
- This study indicates some evidence to support the efficacy of our therapy. This is preliminary research, and we need further research to confirm our findings.

Core ACT Processes

- Six Processes identified by Hayes, Strosahl, Bunting, Twohig, & Wilson (2004):

- ❖ Acceptance
- ❖ Defusion
- ❖ Self as context
- ❖ Values
- ❖ Committed action
- ❖ Contact with the present moment

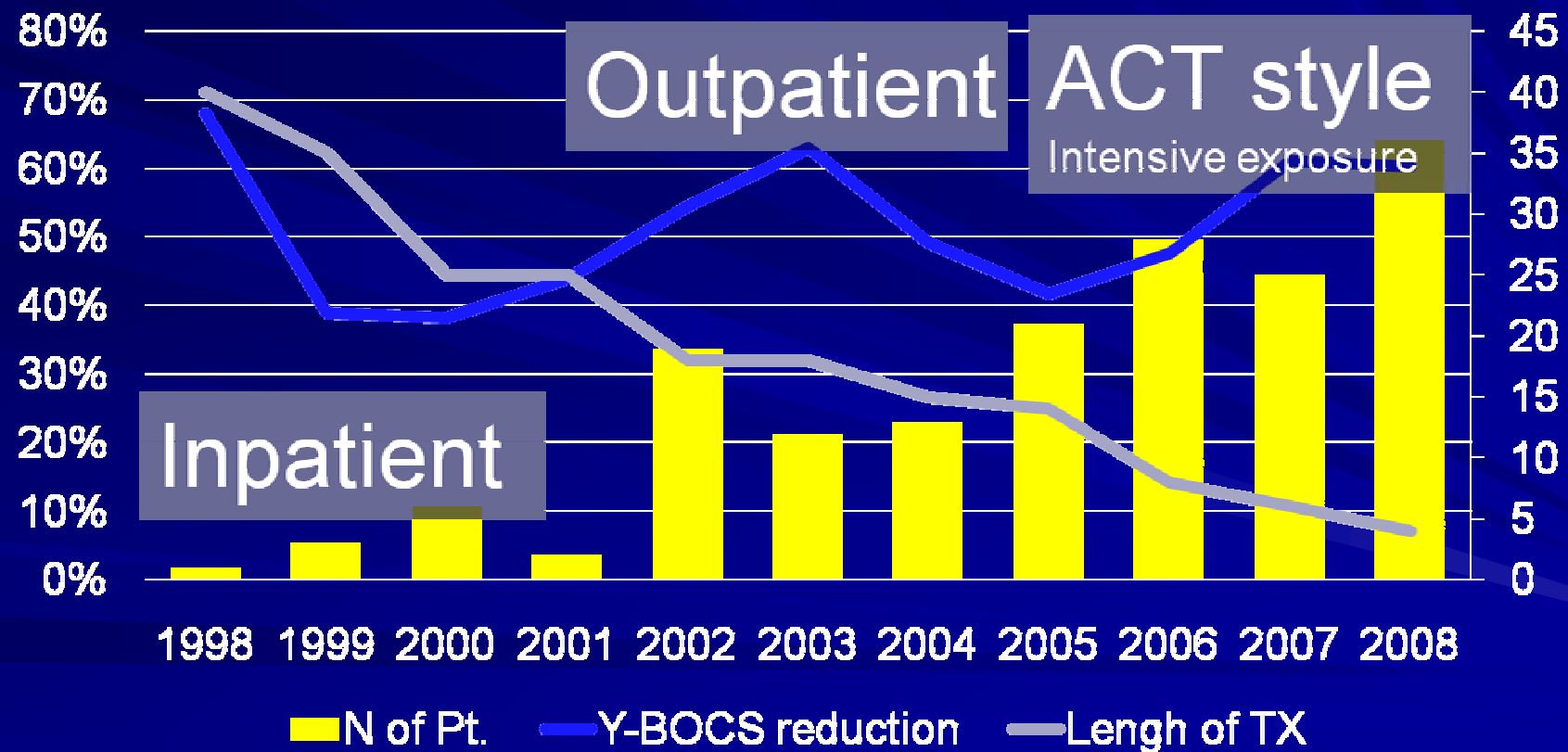
What makes me to use ACT

■ I said

- My treatment outcome has not improved for OCD even after I learned ACT
- Behavior Analysis observes principle of parsimony

What makes me to use ACT

■ My treatment outcome on OCD



Why

Before ACT

- Motivation
 - Persuasion, Threat
- Exposure
 - Decrease anxiety
 - Graded to avoid too much
- Cognitive biases
 - Corrected by logic and evidence
- Maladaptive Behavior
 - Replaced with Skills training

After ACT

- Motivation
 - Elicited, Affirmed
- Exposure
 - Increase anxiety
 - Jump to surprise
- Cognitive biases
 - Accepted and defused
 - Exposure to emotion
- Maladaptive Behavior
 - Choose from behavior repertoire

Explaining placebo response

CBT and SSRIs

Or other numerous txs

- The reason to cause depression



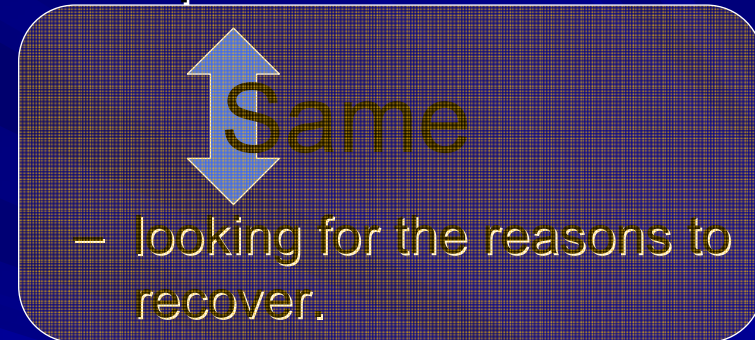
- The reason to recover from depression



- You should correct the reason

ACT

- The problem is



- Placebo is risk taking
 - No reason to be better
 - Just take it for good ends
- HAM-D is exposure
- What works is what works

My wishes

- Recent advances and application of Learning theory are remarkable.
- ACT is one of the accomplishments
 - Rule Governance, Relational Frame Theory
- There are more others which may influence
 - Context Conditioning, Behavior Economics
 - Adjunctive Behavior, Behavioral Pharmacology
 - Optimization, Org. Behavior Management

Conventional vs. ACT

■ Because I have a budget cut,
I can not work,
Doc,

■ Because I am seeking fund,
While avoid working,
I have a budget cut.

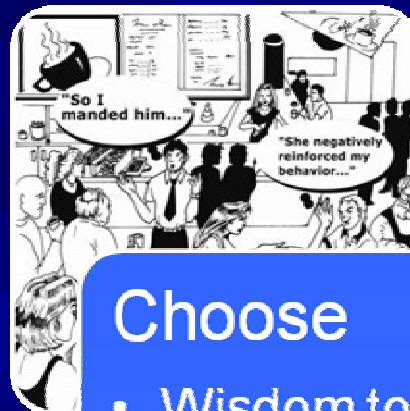
■ Because I have a budget cut,
I can not work,
Minister, give me a fund.

■ Because I am seeking help,
While avoid working,
I have a pain.



Accept

- Serenity to accept the things I can not change



Choose

- Wisdom to know the difference



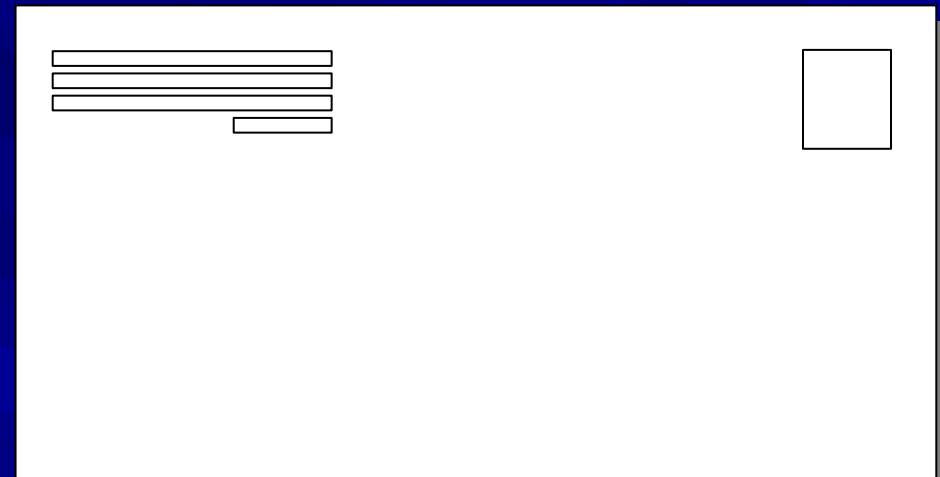
Take action

- Courage to change the things I can

Final note

■ Thanks Prof. Iyo

■ Q & A



E-mail: hharai@cup.com

<http://homepage1.nifty.com/hharai/>

Treating private events

■ Washing and Checking are *Public events*

■ *Private events*

- Pure obsession in OCD
- Shame in SAD
- Bodily sensation in PD
- Regret in MDD
- Worries, Thoughts suppressed in GAD
- Memory in PTSD and Complicated Grief
- Paranoia, Hallucinations in Psychosis

Many ways to describe thoughts

- Obsession
- Cognitive bias
- Early maladaptive cognition
- Schema
- Traumatic memory
- Paranoia
- Belief



Verbal behavior
in your Brain
you are
struggling with
The content of thought
is not the problem.
The feeling you are
avoiding
The control / coping
you are using and
seeking is the problem

Cognitive BT

- Classify
 - Matches to Medical Model
- Explanatory
 - Etiological Model

ACT

- Extinction is also new learning as well as conditioning
 - Violation of reinforcer expectation
 - You had NOE, experience PO, will have POE
 - You had only POE, experience PO, will have?