



International Society for CNS Clinical Trials and Methodology

FDA

Advisory Committee Meeting

**Proposed Requirement for Long-Term Data
to Support Initial Approval of CNS Drug Indications**

**George Awad, President ISCTM
October 25, 2005**



International Society for CNS Clinical Trials and Methodology

- **Society Membership: CNS methodologists from academia, industry, regulatory agencies**
 - A George Awad (President)
 - Ravi Anand (Treasurer)
 - Richard Hartman (Secretary)
 - Georges Gharabawi (Membership)
 - Ross J. Baldessarini (Scientific Com.)
 - Steven Potkin (Scientific Com.)
 - Mark Rapaport (Scientific Com.)
 - Larry Alphas (Program Com.)
 - Munaf Ali (Regulatory Liaison)
- **Mission**
 - **To evaluate current concepts of CNS drug development:**
 - indications
 - trial methods
 - regulatory guidelines
 - modes of usage
 - clinical methods
 - **To address potential conflicts between research objectives & regulatory requirements**



CNS Efficacy Data: Current Status

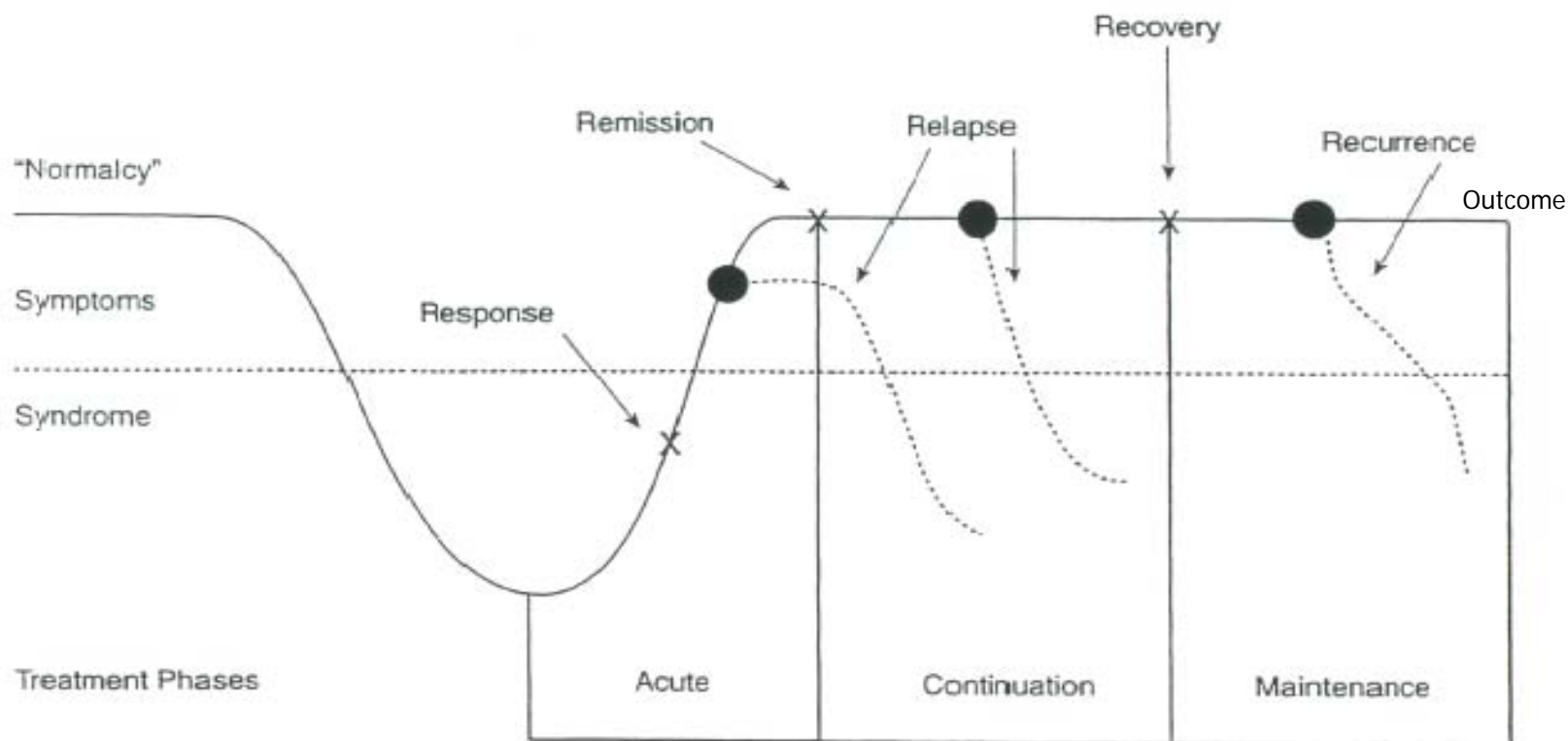
- ***ISCTM supports:*** FDA requirements & approved indications where the objective is demonstrating control of symptoms over 4–6 wks (schizophrenia, depression, anxiety disorders, and bipolar disorder)
- ***ISCTM questions:*** proposed FDA requirements & labels for continuation/maintenance treatment based on preventing relapse of index episode or recurrence of new episodes in remitted/stable patients

Key Issues:

- Disease Characteristics
- Stakeholder Needs
- “The Question”

Need for Long-Term Data Varies by Disease Course

Generalized Course for Depression

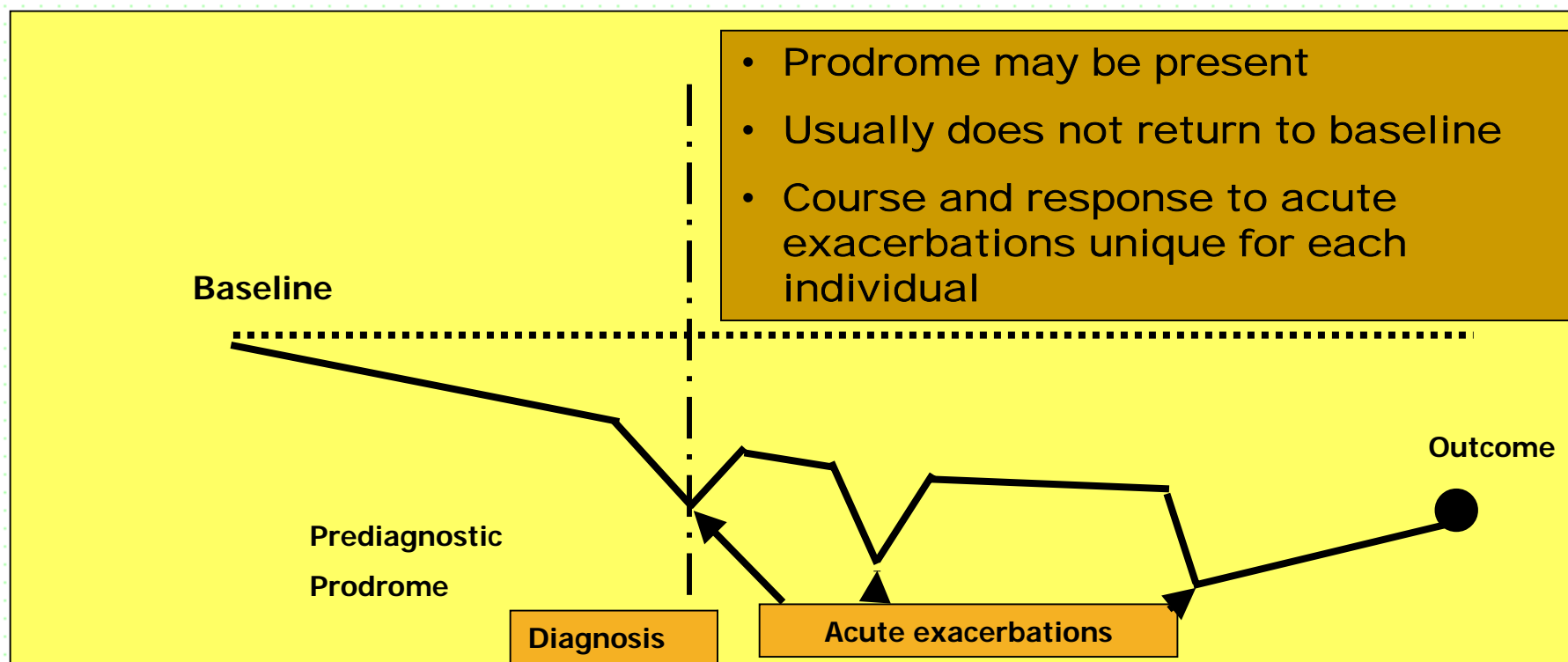


Kupfer DJ (1991): Long-term treatment of depression. *J Clin Psychiatry* 52:28 –34

- Broadly similar course for most persons with disorder
- Frequently returns to baseline

Need for Long-Term Data Varies by Disease Course

Variable Course of Schizophrenia



Conclusion: Different study designs are needed to address differences in diseases and treatment needs.

Vocabulary of Long-Term Efficacy

- Terminology for long-term data in depression
 - Response
 - Maintenance of effect
 - Remission
 - Recovery
 - Relapse
 - Recurrence
 - Prophylaxis
- Similar terminology is required for other CNS disorders:
 - Schizophrenia—chronic; may not return to baseline; irregular exacerbations
 - Bipolar disorder—recurrent disorder with manic and depression phases, highly variable in timing & duration
 - Anxiety disorders—shorter treatment often is adequate

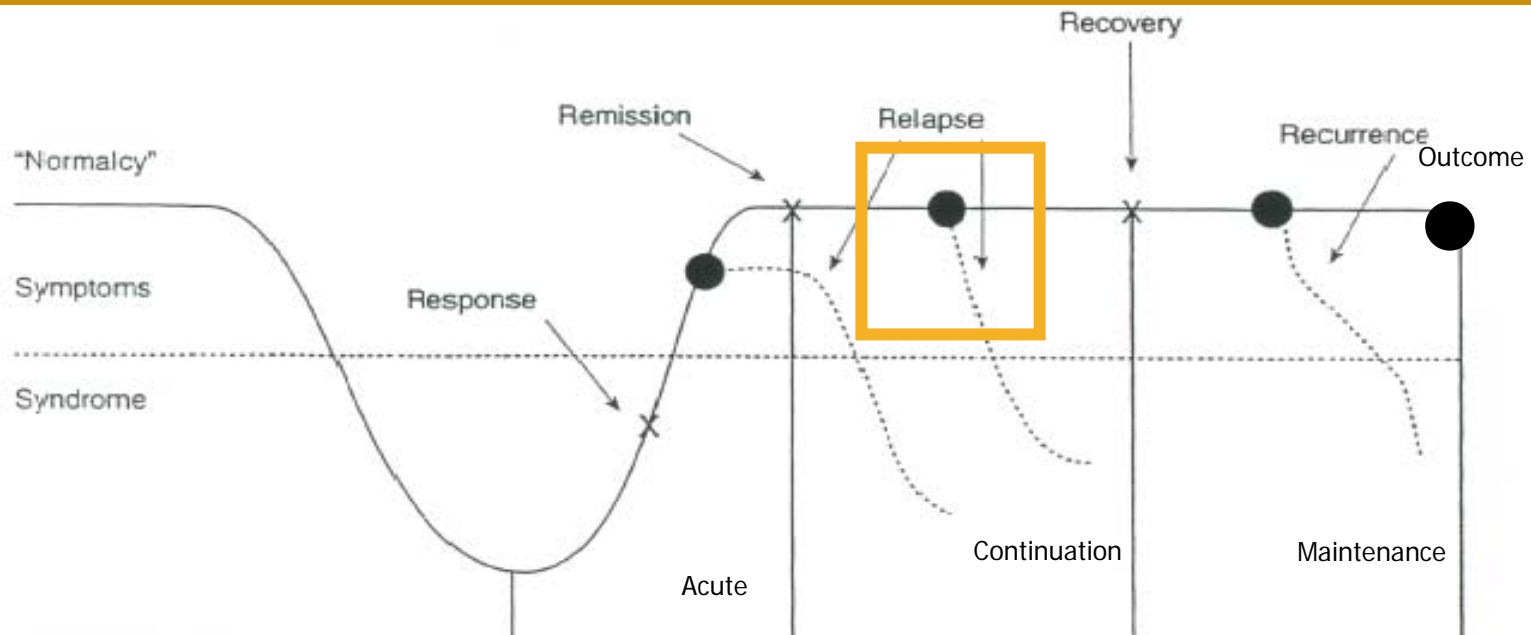
Vocabulary is emerging to describe various aspects of long-term maintenance considerations, but must be adapted for major disease entities

- **Needs for evidence of long-term efficacy vary for different stakeholders depending on their perspective**
 - **Patient**: “Will I continue to do well if I take this medication?” or “Do I need to continue to take this medication?”
 - **Clinician**: “Will the drug/dose that effectively treated symptoms in my patient continue to have an adequate effect long term and will it be safe?”
 - **Society**: “Does this drug improve functioning, quality of life and outcome during long-term treatment in a population of persons with the index disease in treatment trials?”
 - **Regulators**: “Is the drug which demonstrated an acute effect still providing risk: benefit when its use is continued for long periods?”
 - **Developers**: (identical to above) “Is the drug which demonstrated an acute effect still providing risk: benefit when its use is continued for long periods?”

- **The clinical question should be the primary driver of clinical trial designs**
- **Alternative trial designs are available for long-term trials**
 - **Randomized withdrawal designs are of limited value, based on unsound scientific principles, and ethically questionable**
 - **Double-blind, long-term treatment studies are an alternative approach**
 - **Differs from typical extension study**
 - **Assesses long-term effectiveness**
 - **Analyses based on all randomized patients**

Possible Questions, Design and Label for Long-Term Efficacy

Question: During continued treatment with medication will time to relapse or incidence of relapse be reduced?

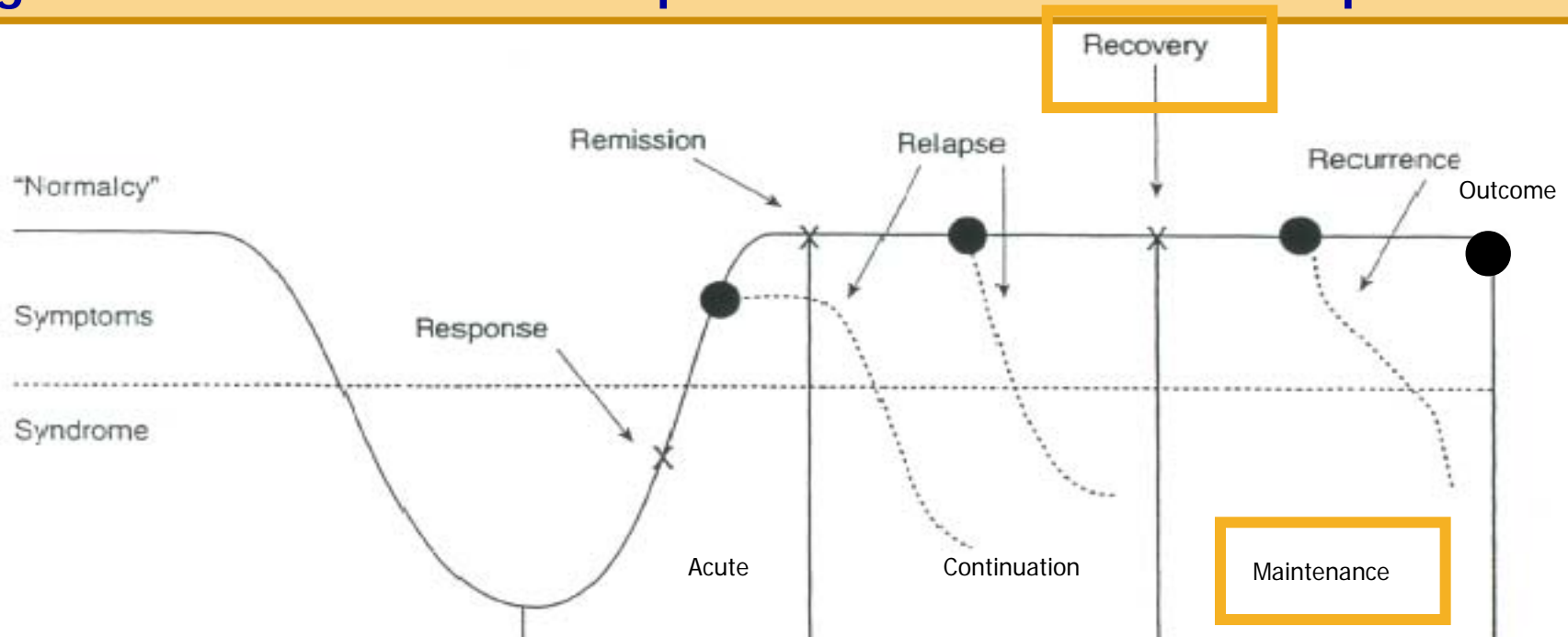


Possible Design: Randomized Withdrawal

Possible Indication: "Compound X has been demonstrated to increase the time to relapse (or decrease incidence of relapse) in patients who had previously responded to treatment as compared to a control during 26 weeks of continuation treatment."

Possible Questions, Design and Label for Long-Term Efficacy

Question: If a patient has responded to medication, will continued long-term treatment result in persistence of the initial response?



Possible Design: Double Blind Long-Term

Possible Indication: "Compound X has been demonstrated to be effective in maintaining an initial treatment response compared to a control for up to 52 weeks."

- Recent change in guidance requiring extended stabilization followed by randomization with treatment discontinuation paradigms risks:
 - ethically questionable trials
 - scientifically questionable outcomes
 - logistically prohibitive protocols
- Proof of long-term efficacy requires *specific* definitions, outcomes, and protocols for each disorder

ISCTM Consensus Points

- **Definitions of “long-term” are specific to each disorder and treatment**
 - They differ greatly, e.g., for:
 - new antipsychotics or mood-stabilizers
 - short-term treatment for acute panic attacks
- **Stakeholders still need to clarify**
 - definitions of long-term efficacy
 - appropriate timing of approvals of new agents for short, intermediate, and long-term applications
 - what data are required when (e.g., at initial regulatory submission vs. in post-marketing commitments)
 - whether the current process of acute followed by long-term indication is sufficient

The Way Forward

- **Re-evaluate current concepts of long-term efficacy of psychotropic drugs**
- **Prioritize needs by specific disorders**
- **Redefine objectives & designs of clinical trials adequate to assess long-term effects**
- **FDA sponsored workshops can help:**
 - **Expert consensus workgroups to develop guidelines for appropriate designs for long-term effectiveness trials for specific indications**
 - **Include representatives key stakeholders: regulatory, academic, clinical, industrial & statistical**