

Todagesmøde i Dansk Selskab for Teoretisk Statistik
30. og 31. oktober 2012
Lundbeck

Praktiske informationer

- Arrangør:** Biostatistisk Afdeling, Lundbeck
- Sted:** Lundbeck, Ottiliavej 9, 2500 Vålby
- Tilmelding:** Registrering sker ved email til commres1351@lundbeck.com
- Pris:** 250 kr. for studenter (excl. ph.d.-studerende) og 500 kr. for alle andre.
- Betaling:** Betaling sker til DSTS, Jyske Bank, Reg. nr. 7853, konto nr. 1117188.
Angiv venligst klart hvilke(n) personer betalingen gælder for. Betaling kan også ske vha. elektronisk faktura, for detaljer se [her](#).

Tilmelding skal ske senest den 23 oktober 2012.

I forbindelse med todagesmødet afholdes følgende arrangement:

- Tirsdag 30. oktober: Formøde om punktprocesser *â€* [se program her](#)

Program for Todagesmødet

Tirsdag (C2 Auditoriet)

14:00 - 14:10 Velkomst

14:10 *â€* 15:00 **Klaus Larsen**, Lundbeck

Titel: Scales at Lundbeck

Abstract: Scales are routinely used in the development of new drugs for treatment indications within CNS. They include instruments that measure specific disease severity, e.g. severity of depression, as well as more general measures of well-being. The measures may be either self-rated or clinician-rated. [Instruments measuring functionality, e.g. activities of daily living or disability, are also routinely used, as well as instruments for measuring the burden on the society/caregiver.] The Montgomery- & ÅRING; sberg Depression Score (MADRS) is often the primary efficacy endpoint in depression trials and therefore of key interest, both for regulatory as well as for promotional purposes. MADRS is a well validated scale with some good properties: it is largely one-dimensional, and it is sensitive to treatment. However, it does have moderate inter-rater variability and poses sizeable residual error variance in the linear mixed models that are usually used for analyses. MADRS is measured through a structured interview that takes 20-30 minutes and should be performed by a trained psychiatrist. During this presentation you (yes, you!) will be given the opportunity to score a depressed patient (don't worry, you can do it from your seat) after a short introduction to the scale.

15:00 - 15:30 Kaffè og kage

15:30 - 16:30 **Klaus Larsen**, Lundbeck:

Titel: Scales at Lundbeck

Abstract:

After the break *â€* you can evaluate your own performance, and the scores of the group of DSTS attendees will be compared with the scores of a group of professional psychiatrists scoring that same patient. Primary analyses of the efficacy scales are typically based on linear regression analysis, and the clinical relevance of the effects sizes have until recently been discussed within that framework. During the last couple of years, few publications using Growth Mixture Models and Longitudinal Latent Class Models have appeared offering different interpretations of the effects sizes. These latent variable models postulate unmeasured subgroups of patient *â€*otypesâ€ that are characterized by a number of *â€*otypicalâ€ trajectories. The models are discussed and contrasted to the more commonly used regression models, and new analyses based on data from trials with the antidepressant escitalopram are presented with a special focus on baseline predictors and early detection of trajectory class membership.

18:00 - Middag på Madklubben Vesterbro *â€* Vesterbrogade 62

Onsdag (C2 Auditoriet)

9:00 - 9:45 **Jan Kloppenborg Møller**, Institut for Informatik og Matematisk Modellering, DTU:
Title: Probabilistic wind power forecast by stochastic differential equation models.
Abstract: TBD

9:45 - 10:30 **Carsten Wiuff**, Institut for Matematiske fag, KU:
Title: Stochastic Modelling and Analysis of DNA Sequence data from Tumour Samples.
Abstract: TBD

10:30 - 11:00 Kaffè og kage

11:00 - 11:45 **Søren Fiig Jarner**, ATP:
Title: Statistik og pension
Abstract: Danmarks største pensionsformue, ATP, bliver styret efter en række stringente principper. En stor del af disse er udviklet og analyseret af Kvantitativ Analyse ved brug af matematiske og statistiske metoder. I foredraget vil jeg fortælle

om Kvantitativ Analyses rolle og arbejdsmetoder, og give eksempler fra to konkrete projekter: den overordnede styring af ATP og modellering af levetidens udvikling.

11:45 - 12:30 **Søren Andersen og Per Larsson**, Novo Nordisk:
Title: Missing Data and Multiplicity in SqA and PrLs

Abstract: In clinical trials it is unavoidable that some data are missing. Often 10% or more of the patients withdraw from a clinical trial, and since withdrawals may be related to effects of the drug this must be accounted for in the statistical analyses.

Recently there has been increased demands for clarifying the assumptions behind the statistical methods used to handle missing data.

In clinical trials it is also unavoidable to test more than one hypothesis. Sometimes methods are used that control the familywise type 1 error rate, but in many cases no such methods are used. When should multiplicity adjustments be used, and how should p-values with different interpretation be communicated?

12:30 - Frokost i kantinen