Kakapan Kakina — Dapaha Kamal	- Leidelaine and Leid
	Research (StaR) Colloquium
Seminar	
Dept of Mathematics and Statistics King Fahd University of Petroleum and Minerals	
Presenter	Dr. AbdulKadir Hussein Assoc Professor (University of Windsor, CA) & Visiting Assoc Professor Dept of Mathematics and Statistics KFUPM
Title	Efficient use of auxiliary information in group sequential testing of means
Topic & (Level)	Sequential Analysis & Sampling (Applied, Methodological)
Audience	All KFUPM community are cordially Invited
Date	SundUnž`>i bY`% `2010
Time	<mark>12:20 PM – 1:20 PM</mark>
Location	Building 5, Smarh 7`Uggfcca ', '%\$&'

## Abstract

Ranked set sampling schemes were originally proposed to increase efficiency in estimation. On the other hand, group sequential methods provide substantial savings in sample and enable us to make decision as early as possible. In this manuscript, we intend to combine the benefits of the two methodologies. We propose group sequential tests for one and two population means under ranked set sampling.

We compare the power, average sample sizes and type I errors of the proposed tests to those of group sequential tests based on simple random sampling schemes. We illustrate the utility of the method by using data from a leukemia clinical trial.

Tea and Coffee will be served