One-day Workshop on Spatio-temporal Models in Epidemiology and Health Lisbon, June $20^{th}\ 2014$

INVITED TALK

Longitudinal dynamic models for progression of kidney function

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Summary: We consider a dynamic regression longitudinal model to monitor progression of kidney function on primary care patients in order to detect incipient renal failure. Progression is characterised by a decline in eGFR. In the longitudinal model model proposed a subject's rate of change in eGFR, relative to the expected profile of eGFR for all subjects with the same values of explanatory variables, is modelled as a stochastic process, which is realised independently for each subject.