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From: Dr. Stephen Britland  
Sent: Tuesday, March 16, 2010 7:13 AM

Subject: latest data

Dear All,

Attached is a graph of the data from the latest experiment as agreed.

Briefly, epithelial cells were exposed to UV from Sterilray at lowest power setting for 5 and 10 minute durations. n= 2 for each treatment group but I haven't included variance because the differences in the means between treatments was so large. My interpretation of the data:

Clearly cells not protected by epidermis are drastically affected by sterilray UV at 5 and 10 minutes. The endpoint MTT assay indicates that the apparent cell number has dropped 70% from controls. Placing human epidermis into the light path appears to confer protection to the cells because, within the constraints of the experimental design, the UV dose was insufficient to compromise cell viability. The caveat here is that MTT is an endpoint assay so will not reveal sub-lethal cell stress per-se, especially relevant is genotoxic effects, comet and kinetic XTT or WST1 are required for that as a minimum but is certainly feasible.

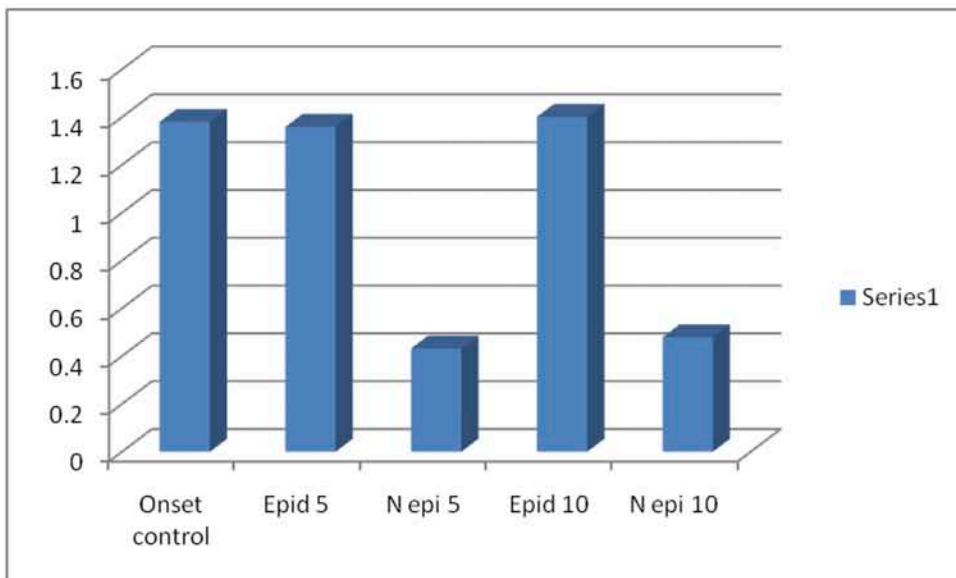
On the basis of the results from this look-see experiment, it appears that sterilray UV does not penetrate human epidermis at sufficient doses to compromise cell viability as measured by MTT assay.

I must reiterate that this experimental approach and the related data on its own is nowhere near rigorous enough to support a claim that sterily UV exposure of human skin is 'safe'. More work is required to ascertain that but at this stage I would suggest that it looks encouraging.

Let me know if you require anything else.

Regards

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