Subject: Fitting a bolus passage with gamma variate in IDL??
Posted by Sean Heukels on Mon, 22 Jan 2001 13:50:57 GMT
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Hello all.

Has someone run into having to fit a
bolus passage through a vein??
You need a mono-exponential extrapolation fit.
I heard that gamma variate fit would be the best.

But is there someone out there that did
something like this and wouldn't mind sharing some knowledge?
How can this be done in IDL?
And where do I start?

Thanks in advance, Sean Heukels

Invivomr institute, Utrecht, the Netherlands

Subject: Re: Fitting a bolus passage with gamma variate in IDL??
Posted by Craig Markwardt on Mon, 22 Jan 2001 16:56:52 GMT
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"Sean Heukels" <sean77=cuthere=@dds.nl> writes:
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Hello Sean--

I think few of us on this newsgroup are familiar enough with medical
terminology to provide a competent answer to your question.

However, performing curve fitting is fairly straightforward in IDL.
There are a number of standard library routines (CURVEFIT being the
most popular), and I provide a curve fitting routine on my web page
which is a tad easier to use, and is a bit more stable (MPFIT and

drivers).

You must still provide the fitting function. I thought I understood what you meant when you said "mono-exponential," but then you go on to talk about gamma variates. IDL does have a lot of special functions in its standard library. Suffice to say, if you can provide the parameterized curve, IDL can fit it.

Craig

P.S. Web page at http://cow.physics.wisc.edu/~craigm/idl/idl.html

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