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Algorithm :

* Regardless of the user input on the graph the peak is calculated on the 10 years data (entire data set).
* Summarize the data monthly. Maximum expected for 10 years that is 120 data points.
* Pick the Maximum 3 numbers of the data points.
* Average of full data points (120 maximum).
* P > average + delta
* Delta = Average \* n.
* N is configurable minimum 2.

For Example :

For given drug there are

2004 Jan there are 400 Adverse Events

2004 Feb there are 200 Adverse Events

2004 Mar there are 300 Adverse Events

2005 Dec there are 700 Adverse Events….

2008 Jan There are 400 Adverse events

2009 Jan there are 900 Adverse Events

2011 Jun there are 800 Adverse Events

We consider the Spikes as 2009 Jan, 2011 June and 2005 Dec.