The pointwise linear regression (PROGRESSOR) technique for visual field analysis and display, described in this issue (p 1000) by Viswanathan et al, deserves consideration beyond the comparison of its sensitivity with the STATPAC 2 program. Is it a fashionable solution which has yet to find its problem; yet another technical complexity offered to a medical market often driven by the interest of suppliers such as instrument manufacturers, drug companies, and research workers? Or is it a potentially valuable innovation?

In their introduction the authors summarise the difficulties in detecting significant progressive visual field deterioration. Perhaps no individual digital or mathematical expression can combine all the information required and for many clinicians visual inspection of a graphical display is still the easiest method of rapid and reliable interpretation. The PROGRESSOR offers a single visual display which adds change in visual field sensitivity over a period of time to the conventional information about size and density of scotoma. The size of the printed bars at each location indicates the density of the scotoma and there is a contiguous bar for each time the test has been performed. Each location plot is therefore a miniature histogram and the colour of the bars shows the probability of any change in density of scotoma being significant. There is a range of colours based on the convention red for danger—deterioration, green for safety—improvement. White is used for the highest probability of significant progressive loss and we might regard this as representing 'white hot'. Further refinement may yet be required to address further questions. Is it possible to standardise and display the timescale of the tests and will observers with defective colour vision read the results accurately?

In addition, will it be possible to incorporate information so that change in field sensitivity might be compared with the average expected rate of visual field decay in eyes which are well treated. This often covers an interval of up to 40 years1 2 and a slope close to this optimum will be more than adequate to maintain vision during the life of the patient. Indeed, a significant part of this slow deterioration in treated cases may be caused not by progressive disease but by the gradual reduction in the numbers of optic nerve axons with increasing age. At birth there are between 1.0 million and 1.5 million and several studies indicate the loss will be about 10 000 per annum; thus for well treated glaucoma the average rate of optic nerve deterioration might be only twice that of normal aging. Shall we soon have the opportunity to display the progress of our patients against the normal decay for age and optimum treated disease?

In busy glaucoma clinics there is a need for a test which can be interpreted rapidly and this facility may be more important than increased sensitivity for detection of minor changes. Few treated glaucoma patients show change in visual field over many years, whether tested by manual kinetic or automated methods.11 12 Yet new methods are continually proposed to increase the sensitivity of field tests; spatial processing and logistic discriminant analysis are but two recent examples.13 There is therefore a danger that research and innovation in visual field tests for glaucoma are being driven by the supplier rather than the consumer, either patient or clinician.14

The chase for ever increasing test sensitivity is inappropriate for the management of most patients and may divert research interest from neglected areas such as the pathophysiology of intraocular pressure control and long term study of the progress of untreated disease and how it is influenced by treatment. Meanwhile the goal of incorporating all the required information for visual field interpretation on one pictorial display is worth pursuit.

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Colour for time; charting the fourth dimension

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