

Dictated on 5 May 2007

Dr John Woodward
The Red Horse Surgery
The Old School
Market Square
Kineton
Warwickshire
CV35 0LP

Our ref: sm/nw

Dear Dr Woodward,

Re: John Hoyte, Harefield House, High Street, Fenny Compton, Southam, Warwickshire
CV47 2YG DOB: 17.10.55

John went ahead and repeated the Biolab tests to see if we are making progress. He had the mitochondrial function tests done last April under Sarah Mackenzie Ros and I enclose a copy of the repeat test followed up.

ATP profiles (mitochondrial function test)

These have improved markedly. His ATP levels are much improved, his magnesium has come up, oxidative phosphorylation is still blocked but again this has moved up from 20.8% to 51.5%. Most importantly to my mind, his translocator protein function is much improved. TL out was 16.5% and is now 26.6%; TL in was 61.9% and this is up to 85.2%. This is particularly important because translocator protein is often blocked by xenobiotic stress. Therefore these results mean that not only has John improved his nutritional status but he has also reduced his load of xenobiotics. There is still some way to go but this represents very good progress.

DNA adducts

Last year John also had DNA adducts done which showed high levels of malondialdehyde – this is symptomatic of poor antioxidant status. It also showed very high levels of antimony.

Please find enclosed a copy of the repeat test. He has got rid of his malondialdehyde, but he has got some nitrosamines here which can also be symptomatic of poor antioxidant status or can come from exposure to smoked products. He also has a small amount of lindane and trace nickel. What often happens when one starts to detox is one mobilises toxins out of fat where they sometimes get stuck onto proteins instead. However as you can see the lindane is at a fairly low level – treatment is the same i.e. to continue with the detox sweating regimes.

Cell free DNA

Symptomatic of these biochemical improvements is the cell free DNA. This was markedly raised at 21.2 ug DNA/l and is now down to 11.3ug DNA/l (up to 9.5). Again this is a very significant improvement.

Fat Biopsies for Pesticides and Volatile Organic Compounds

The fat biopsies for pesticides and volatile organic compounds are always tricky to interpret and it is not unusual to see new compounds popping up when you think they should be got rid of. I suspect this is

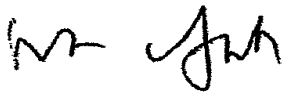
due to a redistribution effect. We know that many pesticides and VOCs are not distributed uniformly in fat and of course the business of detox moves things around generally. However the overall picture is in the right direction. Levels of lindane are down, pentachlorophenol is hugely improved, levels of flame-retardants are down, tri cresyl phosphate has disappeared but he has a trace amount of an OP, which could be residual TCP. He has slightly raised levels of toxaphene and doclofol (kelthane), which probably illustrates the redistribution effects and typically is seen with the organochlorines.

The VOC result is all reduced except for benzene and toluene. The problem with these chemicals is that they are widely used in civilian life – for example benzenes and toluenes are used as anti-knock additives in petrol. Indeed it is possible that Biolab will have to revise their population average findings since benzene has replaced lead in petrol. So there is movement in the right direction, which is encouraging. John needs to work hard on the chemical clean up of his environment to try to stop further exposures.

Most pleasing of all these results is his functional SODase inhibition, which was a very poor level at 37% and is now an excellent level at 47%. Indeed this accounts I suspect for the improvement in malondialdehyde levels which as I say is symptomatic of poor antioxidant status. I have to say I am struggling to explain the leucocyte magnesium that has dropped from 46 to 35ng/1000 and the zinc that has fallen from 6.4ng/mil.cell to 5.0. This doesn't square with the above results, but I have seen this happen before and it may be that once the body has a plentiful supply of minerals it doesn't conserve them so efficiently in serum but moves them into functional enzymes such as SODase. Actually we know John's functional zinc status has improved partly because SODase is zinc dependant and partly because the zinc associated DNA has come up from 16 to 20. However he needs to continue to supplement with zinc and magnesium.

So on balance I am greatly cheered by these results. This shows excellent biochemical progress. What I often see is that the biochemistry improves ahead of the clinical improvements so I look forward to further benefits here.

Yours sincerely,



Encs to GP: Test results.

Encs to patient: Test results, Cc.