

Prof. Sydney Bush

DOpt PhD



AACL 2013



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® EEC. (Reg. US. Pat+):

Slayer of Statins

Sydney J Bush DOpt., PhD.

The terms vitamin C and ascorbate and ascorbic acid and monodehydroascorbate (oxidised vitamin C) are loosely interchangeable.

27/09/2013





Biographical details...

Sydney J Bush DOpt., PhD.hc. (2004)

2nd MB Newcastle. Reverted to Optometry

1954 DOpt. Institute of Optical Science London

Snr. Rsch Scntst. NCHVAMedCentre. Chicago

Director UK Institute of CardioRetinometry® & Canadian Institute of CardioRetinometry®

Distinguished Professor; Chief of Optometry

and CardioRetinometry Cosmopolitan University. Mo. USA. (2008) Correspondence:

bush@cosmoplitanuniversity.ac

CardioRetinometry® eec (Reg US Pat+) Hearteries® AntiCoronary Clinics (UK) Ltd
55yrs Optometry,

52 yrs in Contact lens practice. Various lens patents.

Discovered double national average of Glaucoma in Hull 1979

1st to introduce frequent contact lens replacement 1984.

Discovered reversibility of retinal arterial disease 1999. Named the new science of Nutritional Cardio Retinal Atherolysis CardioRetinometry(Reg) in Dec 1999.



Why should we be interested in the retina for statins, or anything else? It is the most important square inch of the body.

Prof. William Havener states in Chapter 1 of his
Synopsis of Ophthalmology (abbreviated)

“I will challenge every clinician that, using the combined resources of all the universities, their libraries and their professors, that I, with my square inch of the body, will diagnose more diseases than they, using any other square inch of the body of their choosing - except the other eye.”



My Response to Prof. Havener is –
Give me homozygous twins and I, using
nothing more than CardioRetinometry ®
will evaluate. . .

The effects of chlorine in the public water supply.

The effects of Fluoride,

The effects of margarines

The effects of polyunsaturated oils,

The effects of Ginkgo Biloba.

The effects of vitamin C/ etc etc.

And in older twins, the effects of statins.

27/09/2013



NOV 26th 2004 BMJ. Rapid Response to Wong

“ . . .Chronic unbalanced Circadian Atheroma is advanced as the principal aetiological factor in CHD. It is diagnosable from the retinal atheroma and any subject in the Wong presentation would (benefit) from therapy ---I have many hundreds of such images ---often belonging to people with low to normal cholesterol when statins are irrelevant . . . My invitations to GPs to cooperate are ignored.”

27/09/2013



NOV 26th 2004 BMJ. Rapid Response to Wong

It should be noted that by 2004 I was 100% confident that there was the closest possible correspondence between Coronary and Retinal *atheroma as a result of my observations of atheroma and patients histories*. It was not until two years later that I saw the Michelson, Morganroth, Nichols and MacVaugh paper and then the Tedeschi-Reiner et al paper establishing the link.

27/09/2013





I need to inform you now that -
because CardioRetinometry® and
Vitamin C are still suppressed by
Official Pharmaco-Medicine – from
the NLM peer reviewed journals of
Optometry and Medicine (apart
from little read ‘Rapid Responses’
in the British Medical Journal) you
have not been able to read about
them.





My job today is to fill the gaps created in your knowledge by vested interests, and send you away with information that will – if applied – extend the lives of each and every one of you, and make the journey and expense worth while. I shall do that immediately.





A great deal of what you will learn has been withheld from you especially if you are a medical physician trained in a Western Medical School.





It is impossible to acquaint you with the many ways in which essential knowledge for the practise of medicine has been suppressed. We simply don't yet know them all. Many have however become very obvious such as the way the journals are patrolled and editors sacked who publish anything detrimental to pharmacy profits. Citations are obviously sparse





Unfortunately many physicians are completely unaware of the war that exists between Pharmaceutical interests and the public. The more we learn, the more some of our faith in physicians is damaged. That renders a huge disservice to honest doctors to many of whom I am grateful for helping to keep me alive.





An example of how you and they, have been kept in ignorance and disinformed is in some of the most widely used text books for medical students which, from the very outset of their careers, destroy the young doctors' ability to practise good medicine.





This may sound harsh until we consider that **SCURVY** related diseases probably account, directly or indirectly, for over 70% of DEATHS, and to give examples of the continuing deceit, let us immediately acknowledge that . . .





Every one of those 70% of DEATH CERTIFICATES should state e.g.,

“SCURVY- manifesting as coronary thrombosis,”

or

“SCURVY manifesting as stroke,”

or aortic aneurysm, or septicaemia, or viral pneumonia, or meningitis or fifty other diseases. . . .





Death certificates don't say this possibly because e.g., two standard textbooks (similar to many others) Guyton and Hall's, *Medical Physiology* and Baines and Dominiczak's *Medical Biochemistry*, in their combined 1,744 pages, mention scurvy only three times; vitamin C much the same; and the only injectable form of vitamin C - sodium ascorbate - not at all.





Yet it was with injected sodium ascorbate, that Dr. Frederick R. Klenner, in 1949, CURED 59 of sixty cases of Polio who all WALKED out of his hospital.

All the others treated by his colleagues either died or were paralysed for life.





Doesn't all this strongly suggest that if the medical course were properly constituted, free of the influence of pharmaceutical patronage, it would include several textbooks on vitamin C alone, with another dedicated to vitamin E.





The next slides will start to shock you into a realisation of the corruption and fraud in the current teaching of Medicine.

More shocks will follow.





**Dr Robert Cathcart's Table from His Famous 1981 Paper:
Vitamin C, Titrating to Bowel Tolerance, Anascorbemia and Acute
Induced Scurvy; Medical Hypotheses. 1981 Nov;7(11):1359-76.
VITAMIN C, TITRATING TO BOWEL TOLERANCE,
ANASCORBEMIA, AND ACUTE INDUCED SCURVY
TABLE I - USUAL BOWEL TOLERANCE DOSES**

CONDITION	GRAMS ASCORBIC ACID PER 24 HOURS	NUMBER OF DOSES PER 24 24 HOURS
normal	4 - 15	4 - 6
mild cold	30 - 60	6 - 10
severe cold	60 - 100+	8 - 15
influenza	100 - 150	8 - 20
ECHO, Coxsackievirus	100 - 150	8 - 20
mononucleosis	150 - 200+	12 - 25
viral pneumonia	100 - 200+	12 - 25
hay fever, asthma	15 - 50	4 - 8
Environmental and food allergy	0.5 - 50	4 - 8
burn, injury, surgery	25 - 150+	6 - 20
Anxiety and other mild stresses	15 - 25	4 - 6
cancer	15 - 100	4 - 15
ankylosing spondylitis	15 - 100	4 - 15
Reiter's syndrome	15 - 60	4 - 10
acute anterior uveitis	30 - 100	4 - 15
rheumatoid arthritis	15 - 100	4 - 15
bacterial infections	30 - 200+	10 - 25
infectious hepatitis	30 - 100	6 - 15
candidiasis	15 - 200+	6 - 25





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candidiasis	15 - 200+	6 - 25



Vitamin C 'is powerless' in the battle against colds

By Fiona Macrae
Science Reporter

TAKING vitamin C to combat colds is a waste of time, scientists said yesterday.

They found that the supplements, commonly perceived to be a tonic for winter ills, have little preventative effect and are no use at dealing with symptoms.

Only marathon runners, skiers and others exposed to extreme cold or stress for short periods should bother taking the pills, the study showed.

The researchers based their conclusions on an analysis of 30 studies carried out over six decades and involving more than 11,900 patients.

'It just doesn't make sense to take vitamin C 365 days a year to lessen the chance of catching a cold,' they insisted.

Although the results were based on supplement use, the researchers said drinking orange juice or eating an orange - both good sources of vitamin C - were equally useless.

Their review, published in the Cochrane Library, a respected medical journal, looked at whether those who regularly took vitamin C tablets were less likely to catch colds than others. It also assessed the extent and duration of the symptoms when daily takers did catch a cold.

All those studied took at least two grams of the vitamin a day - around four times the dose normally found in supplements in shops.

Analysis of the figures, drawn from studies conducted around

FRUIT and vegetables do not improve the survival chances of women with breast cancer, scientists have found.

A study of more than 3,000 sufferers showed that even boosting consumption way beyond normal guidelines and cutting fat intake did not help them live longer.

They were just as likely to die or suffer a recurrence of breast cancer as those on a regular 'five-a-day' diet. In both groups during the study period, cancer returned in about 17 per cent of cases and 10 per cent of the women died.

Professor Marcia Stefanick, from Stanford University School of Medicine in California, who led the study, said: 'I was really surprised and, frankly, a little disappointed by the results.'

But she said a healthy diet was important even if a 'super-healthy' one wasn't.

the world, revealed the pills had little benefit. It found that those taking a daily dose of vitamin C were just two per cent less likely to catch a cold. Their symptoms would clear up only marginally more quickly.

The researchers, from the University of Helsinki in Finland and the Australian National University in Canberra, said this would equate to the average person suffering a cold for 11 days a year instead of 12.

It would not seem reasonable to ingest vitamin C regularly throughout the year if the only anticipated benefit is to rather slightly shorten the duration of colds which occur for adults two or three times per year, they said.

The study also showed that starting to take the vitamin at the first sign of symptoms did little to hasten recovery.

It did find, however, that the vitamin benefited marathon runners, skiers and soldiers training in the Arctic, suggesting it is beneficial if the body is

under extreme stress. Last night British experts said vitamin C is likely to benefit only those lacking it in the first place.

Hugh Pennington, a leading microbiologist from Aberdeen University, said the research showed that vitamin pills or

'You've just got to stick it out'

even a glass or two of orange juice do little to dry up the sniffles.

However, taking them will not do any harm - and simple belief that they work could still help sufferers feel better, he said.

'I am not surprised they found that vitamin C was no help. I think that the public's faith in vitamins is slightly misplaced,' he said. 'If you want to take orange juice and it makes you feel good, so much the better. But it isn't going to make

Healthy: But scientists say orange juice does not clear colds



Why car trips stall at 100 mins

IT MAY feel like the complaints from the back seat start the moment the car leaves the driveway.

But according to a study, it actually takes children much longer to wind up to a really good whinge.

One hour and 40 minutes is apparently their average limit for patience, at which time the 'chaos' are we there yet, are we there yet' moves into high rotation.

Unsurprisingly, it takes only five minutes longer for most parents to become annoyed with their offspring.

The survey of 1,330 parents by the AA was based on the average summer holiday car journey of four hours and 20 minutes.

In the light of the results, the motoring organisation said families should take a 'nearby break' about 100 minutes into their trip to avoid unnecessary tension.

Pat Spurgeon, child psychologist and founder of website RaisingKids.co.uk, said: 'The research shows how important it is to take regular breaks to prevent tensions rising. A child's boredom threshold is lower than that of mum and dad so it is important to compromise and find a comfortable breaking distance that suits everyone.'

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The businessman who wants to give £1billion to charity

By Gwyneth Rees

A BUSINESSMAN yesterday announced plans to give at least £1billion to charity.

Sir Tom Hunter, a 46-year-old Scot, said it will take the rest of his life to hand over the money. He said he would invest most of the profits from West Coast Capital, his hugely successful private equity firm, into his charitable Hunter Foundation which lacks inequality in Scotland and Africa.

He set up the foundation with his wife in 1998 shortly after selling his Sports Division retail business to JJB Sports for £290million. Sir Tom said he was now worth £1.6billion.

creation in order that we can, over time, invest £1billion in venture philanthropy through our foundation.

His pledge is matched only by that of Lord Sainsbury. The grocery tycoon is aiming to give his Gatsby Foundation £1billion - and become the first Briton to give such a sum. Sir Tom has taken the lead in takeover deals worth more than £1billion since 2001.

He has amassed a fortune estimated at

• Typical disinformation warfare by the Pharmaceutical industry against the public.

27/09/2013



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GoodHealth

Daily Mail, Tuesday, July 24, 2007

As experts scoff at the wonder-cure for colds...

Vitamin C: Is it a fast he-kum?

SUPERSTITIOUS? Me? As the Mail's Science Editor, I'd hate to think so — but it seems I may have been deluding myself. While I have always dismissed diet fads and miracle cures as no more than expensive witchcraft, there is one bit of old-wifery I have always sworn by. And that's vitamin C.

At the first tingle of a cold, I guzzle the stuff. Like it is going out of fashion. Forget the 60 milligram recommended daily allowance: when my nose starts running, I mainline the stuff, taking three, sometimes four, whole grams a day.

And you know what? It seems to work. For me, anyway. Vitamin C does not cure my colds, but it seems to make them go away a day or so faster than otherwise.

It is pretty hard to conduct clinical trials on yourself, of course, but relying purely on instinct, I would have to agree with the Nobel Prize-winning chemist Linus Pauling who, in the 1970s, suggested that taking a gram of vitamin C every day was a sure way of keeping colds at bay.

Well, it seems I — and Pauling — may be wrong. A comprehensive review of research published last week shows that the benefits of taking supplemental vitamin C is so slight that, when it comes to colds, it is simply not worth the effort and expense.

Only marathon runners, energetic skiers and others who put their bodies through periods of extreme stress and cold may benefit. Vitamin C will neither protect you from the bug nor do much to lessen the severity of the infection.

Britons spend enormous sums — about £200 million a year — on vitamins. After the study was reported, microbiologist Hugh Pennington said: "I think the public's faith in vitamins is slightly misplaced."

It is easy to conclude that when it comes to vitamins and diet supplements, we are being a bit glib. But is it true? In fact, judging whether it is worth taking vitamin supplements is extremely difficult, as research is often contradictory.

The public seem to be torn in two as well. Some of the greatest consumers of dietary supplements are often the same people who try to eschew chemicals in their food.

VITAMINS certainly are vital. Think of them as the oil that keeps our bodies running smoothly, facilitating the various chemical reactions that take place in our cells. If we don't get enough of them, we are in real trouble.

In the past — and even today — the most common vitamin deficiency was a real danger. It was called scurvy, and the disease in 1747 by Scottish surgeon James Lind was caused by a lack of vitamin C in sailors' diets.

Most modern diets, however, contain plenty of vitamin C-rich fruits and vegetables. It was a bone to swallow in the Royal Navy and to millions of people everywhere.

By **MICHAEL HANLON**
SCIENCE EDITOR

In fact, it has been recognised for millennia that certain foods contain a 'magic' element that can cure or prevent certain conditions. For instance, The Ancient Egyptians knew that eating liver could help cure night blindness.

Apart from scurvy, vitamin deficiencies cause predictable and unpleasant results. The body cannot store most vitamins (with the exceptions of vitamins A, D and B12) so must continually renew its supply.

A deficiency in vitamin B1 causes beri beri — a common disease in parts of the world where the staple diet is based heavily on polished rice. (Beri beri is alleviated by using unpolished rice, as rice husks are a rich source of B1).

Vitamin D deficiency causes rickets, and a diet very poor in vitamin B9 (folic acid) may cause birth defects in developing fetuses.

But there is a big gap between suffering from vitamin deficiency and needing to take vitamin supplements — and this is where science, common sense and public perception become rather muddled and confused.

Most modern diets, however, contain plenty of vitamin C-rich fruits and vegetables. It was a bone to swallow in the Royal Navy and to millions of people everywhere.

Even a pretty unhealthy diet is unlikely to lead to the sort of

dreadfully common illnesses seen in times past.

Scurvy is a rare disease today, even in Britain's turkey-bender-consuming communities. To suffer vitamin deficiency today in the West, you really need to be very unlucky, rock-lean with your diet, or be suffering from some condition that prevents the uptake of vitamins.

But that doesn't stop millions of perfectly healthy people buying these pills in enormous quantities.

And despite the inevitable scepticism that must accompany the behaviour of the 'well-read' elite, there is some limited scientific evidence that taking vitamins in quantities over and above what is necessary to keep us alive and healthy may have some beneficial effect.

EVEN the recent study on vitamin C acknowledged that the vitamin does have some effect on the progress of colds, which is interesting in itself. Given the variability of colds and the way they react to viruses, it is not possible that for some people large doses of this vitamin do, indeed, relieve cold symptoms quite dramatically.

More weight is given by some people to the fact that antioxidants — including C and E — are antioxidants. This means that they can slow the production of free radicals — the highly reactive molecules generated by oxidative processes which can damage DNA.

These experts are arguing that antioxidant treatments are like

key to understanding the diseases of old age. In 2000, scientists in Minnesota claimed that vitamin E and C supplements may have a protective effect on the brain in later life, perhaps even preventing or slowing the damage done by diseases such as Alzheimer's.

Other studies have shown that people whose bodies are under increased stress — for example, smokers — may benefit significantly from taking extra vitamins.

Quite rightly, the sale of vitamins and other non-pharmaceutical supplements is now strictly regulated. Manufacturers are not allowed to make grandiose health claims about their products for the simple reason that there is little scientific evidence to back up those claims.

In the EU, the food supplements directive does not require vitamins, minerals and mineral supplements to be subjected to the same rigorous testing as medicines, but they do have to be shown to be safe and of good quality.

In the end, the biggest effect of vitamin supplements may be to act as an effective placebo. By taking a few vitamins, cold sufferers feel they are doing something, and the chances are they will feel a little bit better.

But whether the (possibly imaginary) benefits of all these pills are worth a third of the cost of a real cold study will ever be able to discover.

Cold comfort: Experts now say that Vitamin C supplements do nothing to help

•More Pharmacy
•Disinformation warfare:
•Newspapers play this game.
Typical Daily Mail article defining scurvy as "rare" and vitamins a waste of money

27/09/2013



CardioRetinometry® is now ready as a completely new scientific diagnostic tool ignored and suppressed to date. It will empty hospital cardiology wards.

The generic name of the new science is “Metabolic Retinology”

It is a completely new system of preventive medicine





Every one therefore, of the conditions described, predisposes to those that are not listed, the long term consequences of chronic deficiency.





And the short term pathologies of the listed conditions will predispose to the eventual myocardial infarction or stroke apparently completely unrelated to the listed disease.





Which, as you now start to join the dots, can be seen to explain how Influenza shapes up into a coronary thrombosis. The overtaxed, high revving heart, and its coronary circulation, weakened by the same influenzal infection, chronic occult scurvy that predisposed to the hepatitis, or the influenzal infection, or bacterial infection, ends in sudden thrombosis.





Perhaps it is still unclear as to how one leads to the other.





It is easier to understand if you consider that I myself and each and every one of you here, has a degree of coronary atheroma.

If the atheroma is at the level of – and here I would guess – my Grade 1, or more, and is chronic the sequence of events leading to the thrombosis is well defined.





Atheroma must be understood to be a lesion of intraluminal plaque, first and foremost dedicated to the reinforcement of the arterial endothelial lining.





At this point I should add that the world's authority on the pathogenesis of thrombosis is Dr. Matthias Rath MD and I should acknowledge that knowing much less than he, I can only appear to be an incompetent usurper of his pathophysiological ground, a relative ignoramus, and should really remain silent to remove all doubt.





However, he isn't here so it falls to me to elucidate how atheroma, oxidised lipoprotein alpha, (special to Homo Sapiens) a surrogate for vitamin C, invaded by calcium, platelets macrophages and other plasma constituents, is attached to and permeates the endothelium, maintaining the system watertight at all levels of blood pressure.





As such, the plaque must be defended against colonisation by opportunistic bacteria, which would be a failed example of inflammation causing heart attacks.





The plaque, in order to be defended against such colonisation, is invaded by new capillaries. These provide the ready access by phagocytic polymorphonuclear white cells in the plasma, needed to seek and destroy foreign organisms.





These vessels exist, by definition, in chronic sub-optimal occult scurvy, wherever vitamin C deficiency has predisposed to weak collagen, and the necessity for the deposition of the surrogate Lp(a) – the plaque!





Again – by definition – in the condition of occult scurvy due to chronic sub-optimal plasma ascorbate – the new fragile vessels (neovascularisation) are vulnerable to haemorrhage. In the skin such fragility leads to petechiae, purpura, ecchymoses, and – easy bruising as subdermal haemorrhages occur.





The heart is beating non-stop and sixty pulse waves per second expand and contract the arteries. Weakness in the vessel walls is found by the turbulence, expansion and pressure surge, manifesting as intraluminal haemorrhage, between arterial wall and plaque. Pressure from pooling and oedema, breaks the embrittled plaque, forming thromboses.





Prethrombotic events resulting therefore, from chronic occult scurvy, are life shortening, and demand a means of evaluating degrees of occult scurvy





Official medicine treats scurvy as like pregnancy. No intermediate degrees are recognised. You either have it or you are healthy.





Professor Steve Hickey PhD and Dr Hilary Roberts PhD, did me the great honour of devoting the chapter of their book on “Quantifiable biomarkers for scurvy” to CardioRetinometry® in 2004.

It seems that (summarised) it is the “third technique – it is new – and it provides for the quantification of the effect of vitamin C on blood vessels in the retina.”





They suggest that the first method of evaluation of vitamin C needs is Dr Cathcart's Bowel Tolerance .

The second is the assay of the vitamin C in red blood cells – NOT – as chosen by the physicians, the white cells, which have their own special pumps for extracting ascorbate from plasma.





CardioRetinometry® for the first time, allows direct observation and evaluation of the effects of every kind of nutrient, medication and toxin or allergen on the vascular endothelium. Scurvy detected as never before and quantifiable over any period of time!





CardioRetinometry® therefore, probably has the power to dramatically increase the Life expectancy of everyone here, no matter how well you think you supplement. No other system provides effective monitoring of arterial health either in such microscopic degree, so safely, so frequently, or so cheaply.





CardioRetinometry® can therefore be expected to provide almost continuous readout of endothelial response depending on the resolution of the fundus camera, and those able to resolve corpuscles are expected to be best of all.





And this brings us to the
kernel of this talk.





STATINS:

CardioRetinometry® can therefore be expected to provide clear information of the comparative efficiency of statins vis-à-vis ascorbate.



Because Vitamin C reduces intraluminal plaque, as shown by thousands of 'before and after' retinal photomicrographs,

- It is impossible to tell
- just by looking at them,
- Which atherolysis was achieved
- by statin and which
- by ascorbate.

- And so, because they all look alike, it is pointless differentiating.
- Vitamin C and Statins act via the same biochemical pathway exactly!
- This is what we see.

But first – it must be noted that, according to my reliable good friends Michelson, Morganroth, Nichols and MacVaugh (Arch. Int. Med. Vol. 139, Oct 1979) Retina is a near perfect surrogate indicator of coronary heart disease (CHD) So Physicians can estimate coronary disease from retina and vice versa.



Retinal Arteriolar Changes as an Indicator of Coronary Artery Disease

Eric L. Michelson, MD; Joel Morganroth, MD; Charles W. Nichols, MD; Horace MacVaugh III, MD

• Funduscopic examination was performed in 70 nondiabetic, nonhypertensive patients without valvular heart disease undergoing coronary angiography for evaluation of chest pain syndromes to determine if retinal arteriolar changes could reliably predict presence of coronary artery disease. Retinal arteriolar changes were graded with respect to light reflex, vessel caliber, arteriovenous crossing defects, and vessel tortuosity without knowledge of angiographic findings. Each coronary vessel was graded with respect to its most occlusive lesion by angiography; coronary index was derived for each patient without knowledge of eye findings. Abnormal light reflex changes were the most sensitive indicators of presence and extent of coronary artery disease. Abnormal vessel tortuosity and decreased caliber were less sensitive but more specific; their presence also suggested more extensive coronary lesions. Thus, funduscopic examination demonstrating specific retinal arteriolar lesions may indicate presence of coronary artery disease and may correlate with extent of lesions in selected patients. (*Arch Intern Med* 139:1139-1141, 1979)

The early recognition of coronary artery disease has important implications both for the care of individual patients and for the evaluation of specific interventions that might alter the natural history for large populations at risk. Epidemiologic studies previously have identified major risk factors associated with atherosclerotic cardiovascular disease, including hypertension, hyperlipoproteinemia, and cigarette smoking.¹

As early as 1917, clinicopathological studies suggested an association between small vessel retina (arteriosclerotic) and large vessel (atherosclerotic) cerebral vascular lesions.²⁻⁴ Later, Wagener and Keith and Scheie described specific retinal arteriolar changes and considered these to be the sequelae of long-standing or severe systemic hypertension.⁴⁻⁶ Subsequently, changes in the conjunctival microvasculature were demonstrated to occur in patients with clinically and angiographically confirmed atherosclerotic coronary artery lesions.⁷ Previous studies, however, have not attempted to correlate retinal arteriolar changes with the presence or extent of coronary artery disease in a nondiabetic, nonhypertensive population.

MATERIALS AND METHODS

Funduscopic examinations were performed (by C.W.N.) on 70 patients undergoing coronary angiography for the evaluation and management of chest pain syndromes. Fifty-two were men; the mean age (\pm SD) for all patients was 48 ± 7 years, with no significant difference between the male and female patients. Funduscopy was performed within two weeks of coronary angiography except in nine patients in whom the procedure was done during an outpatient evaluation within two months after coronary angiography. All patients were no older than 60 years of age and

all were without systemic hypertension or diabetes mellitus by history, physical examination, or laboratory determinations. No patients had sickle cell disease, anemia (hemoglobin level < 12.0 g/dL), or other systemic or retinal disorders known to affect arteriolar findings.

Funduscopic findings (Figure) were graded by the ophthalmologist (C.W.N.) with respect to arteriolar light reflex changes, vessel tortuosity, arteriolar vessel caliber, and arteriovenous crossing defects as follows:

Light Reflex Changes		Vessel Caliber
Grade (G)		
0	Normal thin-walled arterioles	Normal
GI	Minimally increased light reflex	Mild arteriolar narrowing
GII	Increased, approaching whole width of arteriolar wall	Moderate narrowing
GIH	Color change, copper wiring	Considerable narrowing
GIV	Obliteration of vessel wall, silver wiring	

Arteriovenous Crossing Defects		Vessel Tortuosity
Normal	None	Normal
Mild	Deflection only, "humping," or mild tapering of venule	Mildly increased
Moderate	Apparent compression of venule	Moderately increased
Marked	Apparent compression at every crossing with obliteration of venule	Considerably increased

The examiner was uninformed about the angiographic findings, and the retinal changes were graded specifically without adjustment for age. A \geq GI light reflex was considered abnormal.

All fundi were examined with the iris dilated with one drop of 1% tropicamide plus one drop of 2.5% phenylephrine hydrochloride and all vessels were evaluated at greater than 1 and usually at 2 disc diameters from the disc margin. Twenty patients underwent a second funduscopic examination within seven to ten days after their initial examination. A comparison of funduscopic scores demonstrated meaningful intraobserver variation in grading. In addition, 30 patients also were examined by another ophthalmologist. There was no meaningful interobserver variation in the grading of any of these retinal arteriolar changes.

Coronary angiograms were scored by the consensus of three cardiologists without knowledge of eye findings as follows:

Coronary Score	
G0	Normal to $< 50\%$ stenosis of all vessels
G1/2	$\geq 50\%$ but $< 70\%$ stenosis of one vessel (other than left main coronary artery)
G1	$\geq 70\%$ stenosis of one vessel or $\geq 50\%$ occlusion of left main coronary artery
G4	Each vessel was graded with respect to the most occlusive lesion, and a total coronary score was obtained by adding individual vessel scores to a maximum of grade 4:
	$\geq 70\%$ stenosis of the right coronary artery, left anterior descending, circumflex, and $\geq 50\%$ stenosis of the left main coronary artery

Stenoses were graded with respect to internal vessel diameters. A total score of \geq G1 was considered to indicate the presence of significant coronary disease.

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Reprint requests to Lankenau Hospital, 2221 Medical Science Bldg, City Line and Lancaster Avenues, Philadelphia, PA 19151 (Dr Morganroth).

had a normal light reflex. None of the 23 patients with
< G1 coronary disease, however, had > GII light reflex
changes (100% specificity). Similarly, 14 of 15 patients with
a normal light reflex and 13 of 14 patients with no retinal
abnormalities were without significant coronary lesions;
but these numbers were too small in this preliminary study
to determine the usefulness of normal retinal arteriolar
findings in predicting normal coronary arteries.

It was also apparent from our data that, although there
were only 18 female patients in this series, they accounted
for 14 of the 23 patients with normal coronary arteries and
for five of the nine patients with abnormal light reflex
changes and insignificant coronary lesions. These data
suggest, therefore, that funduscopic findings may be more
reliable in predicting the presence of coronary artery
disease than predicting the absence of coronary disease,

COMMENT

The data suggest that, in selected patients, abnormal fundusoscopic findings reflect the presence and extent of coronary artery disease. Retinopathy was evaluated with respect to light reflex changes, vessel wall caliber, vessel tortuosity, and arteriovenous crossing defects. Even minimal light reflex changes were found to be very sensitive although not specific indicators of the presence of coronary artery disease.

An abnormal light reflex identified 46 of 47 patients with coronary artery disease (98% sensitivity). Although an abnormal light reflex (\geq GI) was not highly specific (61%) for the presence of coronary artery disease, a more abnormal light reflex (\geq GII, 78% specificity; $>$ GII, 100% specificity) was specific and, in addition, predicted more extensive underlying coronary artery disease. It is important to emphasize that a GI light reflex represents a minimal abnormality and that in routine clinical practice a nonophthalmologist would probably not detect less than



ary disease, only 32 (68% sensitivity) had crossing defects. 25 of these 32, however, had \geq G2 coronary artery lesions.

Eye Findings in Patients Without Significant Coronary Disease (23 Patients)

Light Reflex Changes.—Only 14 of the 23 patients without significant coronary disease (61% specificity) had a normal light reflex; none, however, had $>$ GII light reflex changes (100% specificity). Of the 15 patients with a normal light reflex, 14 (94%) had no significant coronary artery disease.

Vessel Tortuosity.—Twenty-two of these 23 patients had normal vessel tortuosity (96% specificity). Of the 60 patients with normal tortuosity in this series of 70 patients, however, only 27 had insignificant coronary disease.

Vessel Caliber.—Of the 23 patients with $<$ G1 coronary artery disease, 20 had normal caliber (87% specificity).



Comparison of Light Reflex Changes and Extent of Coronary Artery Disease*

Coronary Score	Grade of Light Reflex Changes							
	0	0-I	I	I-II	II	II-III	III	IV
0	11	3	3	1	5	0	0	0
1/2	0	0	0	0	0	0	0	0
1	0	0	1	2	2	1	0	0
1 1/2	1	0	0	2	0	0	0	0
2	0	0	1	1	8	4	0	0
2 1/2	0	0	1	2	8	0	0	0
3	0	0	2	4	2	3	0	0
3 1/2	0	0	0	0	0	1	0	0
4	0	0	0	0	1	0	0	0

*N = 70 patients; coefficient of correlation $r = .60$, $P < .0001$.

had < G1 coronary disease.

Since we can get no further cooperation from the cardiologists we rely on common sense and the information in their papers re their grading of arterial disease.

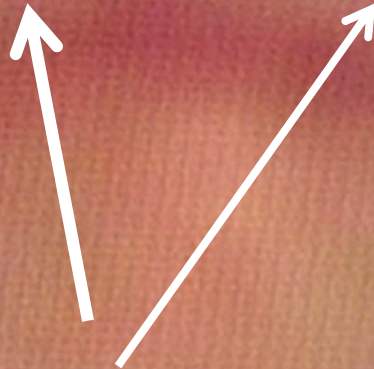
REMEMBER

49% blockage is their Grade ZERO!



Hypertension Origin?

Artery



Cholesterol
at 49%
blockage
In this vein?



Hypertension Origin?

More pink
circulation
returns



Hypertension Origin?

- Cholesterol
Blocks



Hypertension Origin?

- Dissolves

- Note how vessels widen with increased blood-flow and at the arterio-venous crossover the artery becomes more transparent. The vessels jump about because the whole vasculature is recovering its former shape and the entire retina changes colour as the cholesterol disappears and the blood returns



Hypertension Origin?

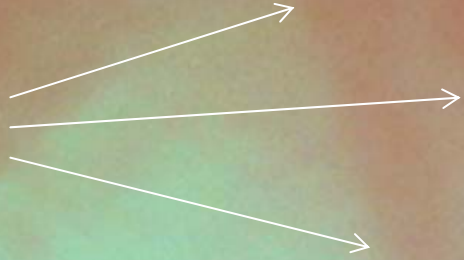
- Cholesterol
Blocks



Hypertension Origin?

Girl

Age 9

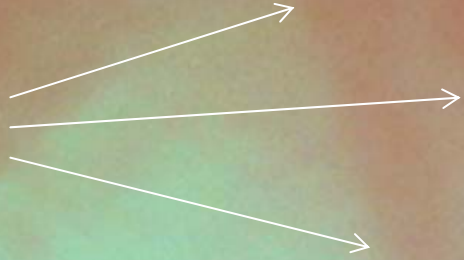


Girl
Age 10
After 1
Gram
Vit C/
day



Girl

Age 9



Girl
Age 10
After 1
Gram
Vit C/
day



- **Pharmacology. 2010 Jan 21;85(2):63-67. One-Year Treatment with Rosuvastatin Reduces Intima-Media Thickness in 45 Hypercholesterolemic Subjects with Asymptomatic Carotid Artery Disease.** [Riccioni G](#), [Vitulano N](#), [Mancini B](#), [Zanasi A](#), [D'Orazio N](#).

- Cardiology Unit, San Camillo de Lellis Hospital, Manfredonia, Italy.
 - Aim: An increase in carotid intima-media thickness (CIMT) represents an early phase of the atherosclerotic process. The aim of our study was to evaluate whether a reduction in CIMT could be seen with 1-year treatment with rosuvastatin (10 mg/day). Methods and Results: Forty-five patients with hypercholesterolemia and asymptomatic carotid atherosclerosis on baseline carotid ultrasound investigation (CUI) were examined with repeat CUI after 1 year of treatment (rosuvastatin 10 mg/day). Demographic and lifestyle data were collected. A physical examination was performed, and fasting venous blood samples were obtained. Total cholesterol, low-density lipoprotein cholesterol and triglycerides decreased significantly ($p < 0.001$), while high-density lipoprotein cholesterol increased significantly ($p < 0.001$) during the intervention. The mean decreases in the IMT of the right and left common carotid arteries (CCAs) were 0.29 and 0.26 mm, respectively ($p < 0.05$ for each). Age and lipid profile parameters were significant predictors of change in CIMT in linear regression analyses after adjustment for established atherosclerosis risk factors. Conclusions: One-year treatment with rosuvastatin in hypercholesterolemic adults with evidence of subclinical atherosclerosis significantly reduced the CIMT of both CCAs and improved the lipid and lipoprotein levels.
- Copyright © 2010 S. Karger AG, Basel.

27/09/2013

- Can we not expect ascorbate to perform even better and without risk of adverse drug reactions?

- Can we not confidently expect that 'Big Pharma' has – in fact – done the research with vitamin C, and is keeping quiet about it?

In the USA people using the LifeStream® home cholesterol monitor found that vitamin C was as effective as statins.

• Can we not confidently expect that 'Big Pharma' has again here – done the research with vitamin C - and is keeping quiet about it?

• If you were Big Pharma, wouldn't it be sensible for you to know what threats your business faces?



The power to change the
National Health Service, the
elimination of almost all
degenerative cardiovascular
disease - and medicine as
you know it today.





Professor Steve Hickey and Dr Hilary Roberts PhD., of Manchester Metropolitan University in their book “*Ridiculous Dietary Allowance*,” detailing 100 farcical errors in the formulation of the RDA for vitamin C did me a great honour.



Ridiculous Dietary Allowance

An open challenge
to the RDA for vitamin C

Dr Steve Hickey
&
Dr Hilary Roberts



They stated re the RDA for Vitamin C - that “the Public has been actively misled” and go on to say about the new science that it

“represents a new technique for the estimation of Vitamin C requirements”






What has this to do
with Statins?





It means the end of
Statins






The reason for that
is the shared
biochemical
pathway by which
statins work in
reducing plasma
cholesterol





But that is not all – it
gets a bit
complicated here






Atheroma – Arterial
disease i.e.
intraluminal plaque
that obstructs our
coronary arteries in
probably everybody
here





Is caused by
cholesterol but NOT
your High or Low
density cholesterol.







It is caused by
VERY low density
cholesterol –
Lipoprotein alpha
[Lp(a)]
barely found in
other animals.





And this is a Risk
'MARKER'
not a Risk
'FACTOR'





Which means that
when you HAVE
high Lp(a)

you HAVE heart
disease!





What do statins do?

They lower
cholesterol!

But NOT always

Lp(a)

Atorvastatin has
the greatest effect





So that's good isn't
it?


NO! It Isn't





What people are not told is that the Lp(a) cholesterol is deposited at critical points where the wear in the vessels is greatest







On the septa of
retinal arteriolar
bifurcations in the
eye I would call it
Hollenhorst
Microplaque.



the plaque is
serving to keep
the system
watertight!!!

Hypothesis: lipoprotein(a) is a surrogate for ascorbate
Rath M, **Pauling L.**
Proc Natl Acad Sci U S A. 1990 Aug;87(16):6204-7.

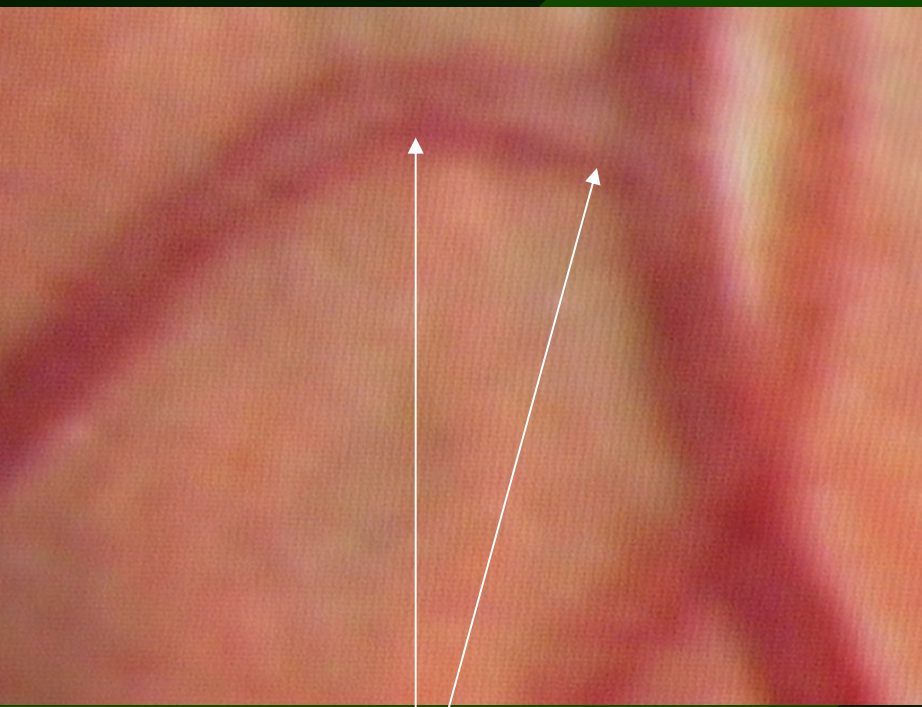




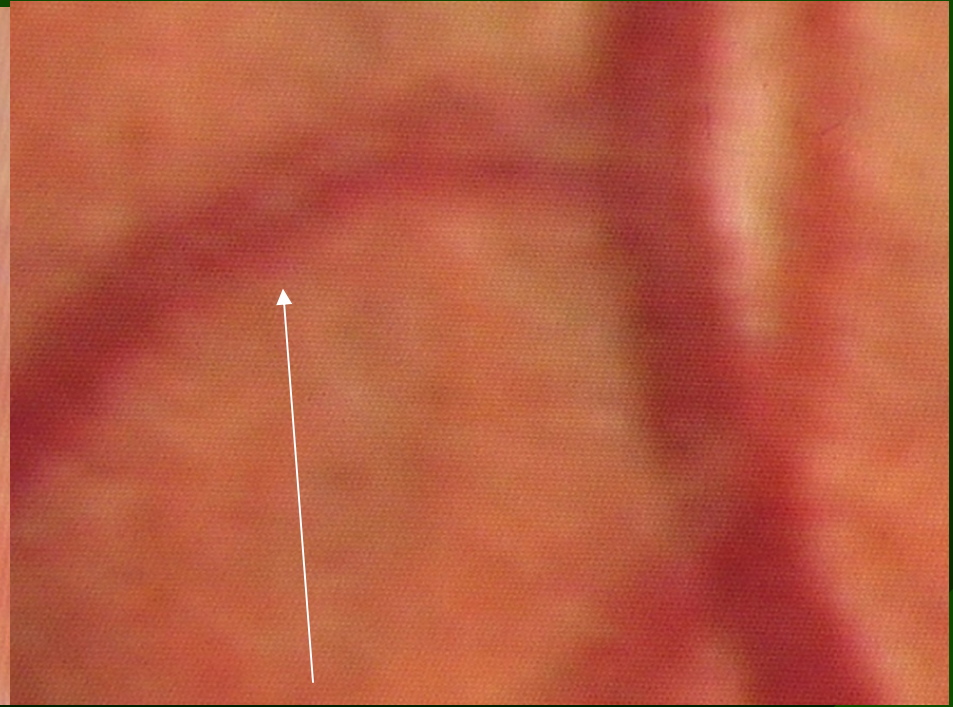
And people are not
told that the
greatest danger can
actually come from
the veins - and
particularly in the
eye!





A Venous Pressure Change



Vein pushed up to arch higher as the cholesterol blocks entry to larger vein




Cholesterol block dissolving, blood-flow restored. pressure falls – arch falls.




Blockage of the
veins can cause
instant and
permanent
blindness





These images, still
rejected for
publication in peer
reviewed journals,
could not be of
greater significance
to everyone here!





They represent the
missing link
explaining why
statins fail to
provide life
extension





So why does this
mean the end of
statins?





I think you all fully understand
now Because

1. Statins they act via the same
HMG3 CoA Reductase enzyme
inhibition pathway that Vitamin C
acts through in reducing plasma
cholesterol!





2. The pharmaco-medical profession has doubtless researched and confirmed that at any moment world-wide loss of confidence in statins can be expected at any moment when the public learns the truth about vitamin C..





Physicians cannot prescribe
vitamin C ending so many
diseases, without ending the
practice of medicine in the West
as it is exists now



And at this point I am delighted to be able to tell you that we have exceeded 13 years of at times dramatic reversals of retinal atherosclerosis corresponding with, as my medical colleagues say, 26 years cardiovascular life extension



Thank you for your attention.

Any Questions.





AACL 2013