

Angina Oxygen and Nitric Oxide (NO) Switches in ATP

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Angina is found in people with and without blockage. They both have a very similar symptom. Rapid fatigue and Instant immobilizing fatigue as a result of exertion. Some fatigue is worse than others and some come and go but all seem related to stress and fatigue.

Blockage removal usually repairs the blocked hearts but there is another less understood Angina of the small vessels. I think this is not correct and vessels may not be to blame. Speculation but it needs study. I will make my statements and if scientists feel it worth looking at I would be very happy as there are millions suffering and many with this form of small vessel Angina.

Causes of Angina ..Oxygen suspected:

It is suspected that lack of oxygen is the cause of Angina. The non blockage type is thought to involve restricted VESSELS. I think it would be good to look at a different cause. In a paper on Nitric Oxides and ATP in the body there are findings about ATP and cellular SHUT DOWN. In the Papers text about NO switches it states "The findings presented here suggest that NO can decide the shape of cell death by lowering intracellular ATP below the level required to allow the coordinated execution of apoptosis. ©"[1] This means that there is no ENERGY to pump the heart therefore there is no opening of the vessels as there is no real pressure I would assume or there is no power to open them. Exactly like CYANIDE.

We must consider nitric oxides affect on ATP:

Consider the symptoms. Instant almost complete collapse really in many cases. No structural defects in the heart of vascular works. Many are very healthy and led fit lives.

Why do I speak of ATP and what is it? It is literally the food we use to stay alive. It is protons that are the final result of bio-chemical energy production.

ATP is so needed that you will die almost INSTANTLY as you would from Cyanide because that is exactly what Cyanide does. It stops ATP production and movement into the cell where it is needed in COPIOUS amounts.. Cells die almost immediately.

Also what fixes these attacks...Nitro-Glycerine. Patients say they feel GREAT instantly.

Nitric Oxides are at play here and after the nitr-glycerine the switches appear turned on again to me.

Why do I refer to Cyanide and ATP:

Cyanide kills in a minute or so because movement of ATP is stopped. ATP is ENERGY. And a "tiny blood Vessel" type Angina attack is cured INSTANTLY with NITRO-Glycerine. Not only better...but Patients say they feel GREAT instantly.

ATP is instant on and instant off...very quick reaction and that is EXACTLY as observed.

GUESS WHAT...there are nitro switches on ATP production.[1]

Conclusions:

The ATP is reduced to almost zero like cyanide would do. Immediate exhaustion...restricted blood flow DUE TO ATP level not because vessels constrict. VESSELS CONSTRICT BECAUSE HEART HAS NO ATP to pump strong. That is my take. BTW your body RECYCLES ATP protons and burns HUNDREDS of pounds a day. LITERALLY.

I make no claims of fact that this theory is correct. What I suggest is pure speculation and requires scrutiny. Obviously competent Medical evaluation and such needs to be done and what I say might be totally wrong.

My understanding is that this type of angina is a complete mystery to Medicine and has been studied for years as Oxygen related. My work simply suggests a thoughtful look at an alternative that seems to fit the bill quite well. NO switches and ATP.

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References:

1...https://www.researchgate.net/publication/222235326_Inhibition_of_Mitochondrial_ATP_Generation_by_Nitric_Oxide_Switches_Apoptosis_to_Necrosis