

## Clinical Protocol

**Synchrovit®** provides clinical strength retinol where its activity is enhanced by Vitamin E and penetration into the skin is maximised by Synchrosome® technology.

The ingredients and technology combine, visibly reducing lines and wrinkles but also normalising skin cell production; overactive skin cell production contributes to congested skin, prone to spots. Retinol also stimulates collagen production to help repair and maintenance of skin. Lastly, it can also visibly reduce pore diameter.

**Synchrovit® Eye and Lip** formula contains alpha-bisobolol to improve lymph drainage, which helps reduce dark under eye areas. The retinoic acid and Vitamin E deliver an improvement to the eye area in terms of skin translucence, lighter under eye areas and visibly fewer lines and wrinkles.



### Clinic Details

TANWARDS

THIOSPOT

SENSICURE

ENERPEEL

LIPOACID

AKNICARE

TERPROLINE

**SYNCHROVIT**

SYNCHROROSE

FILLAST

NUTRITIME

HYDRATIME

SYNCHROELAST

SYNCHROCELL

SUNWARDS



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## Retinol A Creams



**SYNCHROVIT**



**SkinMed**

SOLUTIONS FOR SKIN - MEDICALLY TESTED

## What's all the Fuss About?

Retinol has long been a popular ingredient in skin anti-aging creams and also in the management of acne, helping to improve skin cell vitality and by normalising skin cell turnover rates, which accelerate in the development of acne.

## An Informed Choice

All retinoid-based creams convert to *retinoic acid*, the active molecule created from Vitamin A. However, Vitamin A is poorly absorbed and retinoic acid can be highly irritating when placed on the skin surface, making the skin more sensitive to the sun and many other external factors. So, many companies have used molecules which are made from Vitamin A, are better absorbed by the skin and do not convert to retinoic acid until they are actually *in* the skin.

The closer the structure of the molecules used are to retinoic acid, the more the risk of skin irritation. *Retinaldehyde* is the closest and has the highest irritant risk compared to retinol which is less. *Retinyl palmitate* is the least irritating. However, the reverse is true on absorption; retinyl palmitate is the nearest to Vitamin A and so is the hardest to get into the skin, to achieve an effective concentration of retinoic acid. Retinol is the next hardest to absorb, while retinaldehyde is the most easily absorbed.

## Synchrosomes® to the Rescue

As a medical skin company who deals with many sensitive skin types, we chose retinyl palmitate, the least irritating. We utilise our patented delivery technology - Synchrosomes® - to carry the retinol palmitate deep into the skin. Synchrosomes® are unique molecular structures which vastly improve skin absorption, while protecting the retinol palmitate until it is in the skin, where it can be converted to active retinoic acid. We also combine it with tocopherol (vitamin E) which improves its cellular activity. In this way, we get maximum absorption, maximum safety and maximum activity.

## Dark Under-Eye Circles and The Aging Process

Dark under-eye circles begin in the capillaries of the thin, delicate skin around the eyes. The capillaries are so small that red blood cells sometimes have to line up, one by one, to get through. Frequently, red blood cells get lost and wander into the surrounding skin. This isn't a problem - it happens all the time - your body has a mechanism to combat it.

## From Red to Blue

Enzymes in your body break down the red blood cells, including their haemoglobin – this is the molecule that holds oxygen, so you can transport it around your body. When haemoglobin is broken down, its

remaining components have a dark blue-black colour, just like a bruise. This contributes to your dark under-eye circles.

## Fibre Changes

The skin gets even thinner as we grow older. This is caused by collagen transformation and the weakening of elastin – these keep the skin taut when we are young. The thinning of the skin is particularly noticeable in certain parts of the body, especially those areas where the skin is stretched over bony structures without layers of fat and other tissues beneath; around the eyes, for example. This is also evident on the back of the hands, which often look darker with age.

## No Fat: Thin Skin

There isn't room for fatty layers around the eye sockets because this would get in the way of our ability to move our eyes and see. So, skin around the eyes is thin and gets thinner with age - allowing the blood vessels and darker shadows of bone to show through. Many people's skin is not only thinner around the eyes, but also more translucent. This combination therefore makes this discolouration much more apparent.

## Genetics and Free Radicals

To some degree, the aging process is controlled by our genes and family patterns, but it's also influenced by things which produce free radicals that damage the skin, such as too much exposure to UV light or smoking. As a result of this exposure to free radicals, the change in collagen structure and also the weakening of elastin, the functional efficacy of water-binding Hyaluronic Acid decreases. This means that the skin's ability to effectively retain water also decreases, leading to the formation of gravitational wrinkles and crow's feet around the eyes.

(Please see the *Lipoacid*® leaflet for more information on 'mopping up' free radicals.)

## SYNCHROVIT®

*Synchrovit*® is a rapid acting Retinol A-containing product range and an effective free-radical scavenger for use around the eyes, lips, face and neck. It contains encapsulated forms of Vitamin A (Retinol) and Vitamin E (Tocopherol), which exhibit potent antioxidant properties to mop-up free radicals generated by stress and 'life'.

*Synchrovit*® contains Acetyl Glucosamine, Glucuronic Acid and Saccharide Isomerate, which improve skin tone & increase the skin's ability to hold water, through promotion of the biosynthesis of hyaluronic acid.

**“*Synchrovit*® improves skin colour, skin compactness and reduces skin flaking (regulates skin cell turnover) within 15 days.”**

**Prof. Berte, University of Pavia, Italy**

*Synchrovit*® EL for the eyes and lips also delivers an anti-tiredness ingredient; Alpha Bisabolol, for those under-eye dark areas.

*Synchrovit*® contains many beneficial substances to enhance and invigorate the skin, providing a rapid smoothing effect.

## The Use of SYNCHROVIT® in Acne Sufferers

*Synchrovit*® can augment anti-aging treatments but it also offers additional skin cell turnover control for acne sufferers in support of the control offered by *Aknicare*®.

The combined action of Retinol A helps to regulate skin cell turnover which has been shown to be beneficial in various skin situations including acneic skins.

**You can read many more success stories and find lots of information on managing tired eyes and dark eye circles at [www.synchrovit.co.uk](http://www.synchrovit.co.uk), where you can read more on the science behind *Synchrovit*® and how Retinol A can help reduce the visible signs of aging.**

**Retinol products are used with acne treatments in the management of cellular turnover. *Aknicare*® also addresses cell turnover**



SYNCHROVIT® Complete Range