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# Dr. Patricia Wong's 2009 Fall Newsletter

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## The Pursuit Of Beauty Can Be Dangerous



### 1. Fungal Nail Infections

Nail fungus is very common and can be transmitted via contaminated nail utensils. If the salon is not fastidious about cleaning the nail debris generated after each manicure or pedicure on the tables and other surfaces, you can inoculate yourself with fungus from the previous client. If you have a nail fungus, you should use the scissors last on the infected nails and clean the scissors with alcohol after each use to avoid infecting uninfected nails.

### 2. Squamous cell Carcinomas from UV lights

It is now common practice for nail salons to employ ultraviolet light nail lamps to dry nail polish and set acrylic nails. These devices are also available for purchase on the Internet for home use. Recently, two healthy middle-aged women with no personal or family history of skin cancer developed squamous cell carcinomas on the fingers and hands (reported in the Archives of Dermatology vol. 145 no.4 April 2009). One of the women had had 8 exposures to the nail lamp before developing multiple skin cancers on her hands and fingers. The ultraviolet light emitted from nail lights is predominantly UVA; these wavelengths are longer than UVB and penetrate deeper into the skin. Tanning beds also emit UVA. This has been shown to cause DNA mutations leading to skin cancers. I question the safety of the popular salon practice whereby tanners insert a plastic mouthpiece into their mouths so that the UV tanning lights may activate teeth whitener while they tan. Oral cancer can be aggressive and readily metastasize to lymph nodes in the neck, which can lead to spreading to the rest of the body.

You should inspect your fingers, toes, tops of hands and feet on a regular basis if you have been receiving exposure to UVA nail lamps. Should you notice a rough area of skin or a persistent localized red scaly area, I recommend you have a dermatologic evaluation. Squamous cell carcinoma on fingers and toes can result in amputation of the digit depending on the invasiveness of the cancer

The Internet markets these lamps as a treatment for killing bacteria and making nails healthier. I do not concur with these claims and recommend against the use of these devices for drying nail polish. You should either let the mails dry naturally or use an electric or battery operated fan.

### **3. Paronychia from pushing the cuticles and cutting nails incorrectly**

All manicurists without exception love to push the cuticle back as far as possible and then completely remove the cuticle using scissors. I have asked patients why they consent to having this done and no one can give me an answer. No one can give an explanation as to why they think this is a good idea either. The cuticle is a physiologic seal between the nail plate and the skin. By violating this seal (pushing or cutting it off) you open up this space to bacteria, yeast, fungus, and viruses. This can lead to infection (which is very common). The skin around the nail will become red, swollen, painful and you may see pus collecting underneath the skin. You may need to take oral antibiotics and seek dermatologic assistance to have the area opened and drained.

### **4. Skin Infections**

In addition to the routine bacteria you may acquire, the foot bath also places you at risk for a group of bacteria called mycobacterium. These infections can be difficult to eradicate, usually requiring multiple antibiotics be taken for 6-12 months. It is important that the tubing and the filters in the foot bath be clean and not just the tub in which you soak your feet.

### **5. Dented fingernails**

Dents and irregularities in the nail plate can result from overly aggressive manipulation of the cuticle. The tissue immediately next to the cuticle is the nail matrix. This contains the cells that make the nail and when these cells are damaged, the nail will be deformed. If the cells are permanently damaged your nail will always grow out with dents or irregularities.

### **6. Ingrown nails**

Ingrown nails result from improper trimming of the nails. When the nail starts to grow out it grows into the side tissue of the nail causing inflammation. Do not let the manicurist cut your nails so the sides are curved below the tip of the finger. Toenails should be trimmed straight across and not curved inward on the sides of the nail.

If you feel you must have a manicure or pedicure please take the following precautions:

#### **Dr. Wong's Tips for Going to a Nail Salon**

- \* Forgo the foot bath
- \* Bring your own nail nippers, orange sticks, emery boards
- \* Only patronize salons using proper sterilization techniques for equipment
- \* Do not allow your cuticles to be pushed back or cut away
- \* Do not use the UV nail lights for drying nail polish
- \* Make sure all the surfaces in which you come in contact are clean or you personally wipe surfaces with Clorox disinfectant wipes.
- \* Make sure your nails are being trimmed properly
- \* Periodically remove your nail polish and look at your nails. Do not keep getting the part that is growing out touched up. You may leave an infection or abnormal pigmentation that could be a melanoma undetected in the nail that needs medical attention
- \* Do not have a manicure if the salon looks dirty
- \* Do not have a manicure performed if the person speaks English poorly and you cannot communicate with them
- \* Do not have a manicure if the person performing the manicure has fingernails that look infected, chipped, discolored, bitten, their nail polish is chipped or bubbly looking, or the

skin around their nails appears red, puffy, peeling, or irritated.

**\* If you have diabetes, are taking immunosuppressant medications, are immunocompromised, have an autoimmune disorder, have hand eczema or hand dermatitis, or a skin infection, you should not go to a nail salon. It isn't worth taking the risk.**

## *A New Cure for Depression?*



A recent study interviewing patients who had received **Botox injections** to smooth out facial lines from hyperdynamic facial muscles of expression showed a decrease in the number of people reporting they were depressed after having the treatment compared with the number of people reporting feeling depressed before Botox treatments. The findings suggest that how you look may actually affect how you feel. Erasing frown lines and softening forehead wrinkles can make you look less angry, anxious, and worried, as well as less tired and younger.

Anecdotally, from what I have observed in my practice, **Botox may also improve** interpersonal relationships and have a more positive impact in the way people interact with you. Subconsciously, if you appear mean or unfriendly, people will interact with you differently. I have a patient who initially was receiving Botox injections to diminish frown lines so he could compete with the younger people at his computer technology job. After several months, he revealed that his job evaluations had improved. He felt that he had not changed his work habits or productivity in any way yet he was now receiving feedback as being someone who had "high standards and worked hard to achieve what he thinks needs to be done " versus his former evaluation, which characterized him as "having difficulty getting along with others, and being inflexible, and opinionated." Needless to say, he has continued to have his Botox done on a regular basis.

## *Under Eye Circles*



The causes of skin discoloration beneath the eyes are manifold. Having thin skin in this area can make underlying blood vessels more visible, giving a dark bluish or purplish discoloration. Brown discoloration can be due to trauma such as rubbing the skin with your fingers. This causes irritation to pigment producing skin cells, causing an overproduction of melanin. Failing to apply sunscreen consistently around the eyes can cause this delicate skin to hyperpigment. A lack of sleep and/or high levels of stress can cause capillaries to dilate and leak under the eyes, contributing to puffiness and darkening of the skin. Ultraviolet radiation from the sun can also cause darkening of the skin under the eyes. In general, dark circles under the eyes are caused by a combination of these factors.

Dr. Wong has several undereye topical preparations to address these problems. Our **UnderEye Peptide Brightening and Conditioning Emulsion** contains protein peptides to help firm the skin and caffeine to constrict blood vessels so they will be less visible. Our retinol complex cream helps thicken thin skin and lighten discoloration by gently exfoliating pigmented cells from the surface. **Our specially formulated face block SPF 60** protects the delicate undereye area from

hyperpigmentation without causing burning or stinging of the eyes.

## *What's New!*



We are excited to offer the latest skin rejuvenation serum (hydroxyethyl urea, amino sulfonic acid compound) that helps minimize wrinkles and also benefits acne prone skin by simultaneously exfoliating clogging cells from the skin surface that traps oil and bacteria in pores and hydrating the epidermis for optimal smoothing of skin texture and stimulates cellular activity that supports elasticity and firmness. The **Retexturing Activator** is most effective if used in conjunction with regular medical grade microdermabrasion and supporting collagen production stimulators such as retinoid derivatives and antioxidants. Stop by the office and try it out. The **Retexturing Activator** should be applied daily for at least 10 weeks in order to see benefits. This is a great product to use to maintain corrections after procedures such as Intense Pulsed Light, laser facials, and chemical peels.