

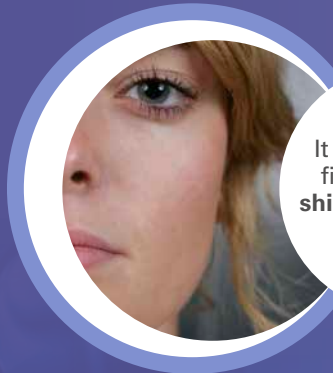
# Skin Health

HEALTHY SKIN IS A SIGN OF OVERALL HEALTH

SKIN  
IS THE  
LARGEST  
ORGAN  
(~2m<sup>2</sup>)

## PROTECTION & ENVIRONMENT

Altering its barrier functions or its role in immune defences can lead to **severe skin damage**



It is your body's first **protective shield** and **cooling system**

It is a display of **genetic heritage** and **physical health**



## GENETICS & WELL-BEING

Skin conditions can alter the perception of a person's **age, health** and **attractiveness**

Skin diseases affect the quality of life of **more than 80%** of individuals

## MICROBIOME

The microbiome, the skin's **microbiological signature**

There is a relationship between **normal skin microflora** and **maintaining healthy skin**



An **ecosystem** composed of **bacteria, viruses, and fungi**

Skin health is impacted by **nutrition**



## NUTRITION

**Nutritional deficiencies** are often associated with skin **health disorders**

## AGING

Aging skin **undergoes progressive** degenerative changes



Facial changes due to **aging** are the most **apparent**



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# Factors influencing Skin Health

BOTH INTERNAL AND EXTERNAL FACTORS CAN IMPACT THE SKIN

**Malnutrition** can lead to **altered skin function** and other specific cutaneous symptoms

**Obesity** is implicated in a wide spectrum of **dermatological diseases**



**Genetic factors** may predispose the development of skin diseases such as **atopic dermatitis**

**Severe acne** is closely linked to **family history**

The manifestation of **human skin aging** has a strong **genetic basis**



**Exposure to UV radiation** is a major cause of **skin photoaging** and **skin cancer**

**Air pollution** is correlated with extrinsic **signs of skin aging** and can **damage epidermal function**

The concentration of ambient ultrafine particles may exacerbate **skin symptoms** in children with **atopic dermatitis**



The link between **stress** and **several dermatological diseases** is now widely recognized

Regular moderate **exercise** enhances the antioxidant defence system

**Smoking** clearly increases the risk of **cutaneous squamous cell carcinoma**

The level of alcohol consumption and smoking both appear to have an effect on **psoriasis**



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# Skin Health needs throughout our lives

GLOBAL INCREASE IN SKIN HEALTH NEEDS

## START HEALTHY

Thousands of skin diseases and skin conditions are thought to exist.

### CHILDREN

**Atopic dermatitis** places a significant burden on patients' quality of life, mainly because of sleep deprivation due to itchiness

20%

**ATOPIC DERMATITIS** affects up to 20% of children worldwide



80%

**ACNE VULGARIS** affects more than 80% of teenagers and young adults

### TEENAGERS

**Acne** is the **number one dermatologic disease** seen by office-based dermatologists worldwide

Less than **50% of acne sufferers** worldwide **have consulted a Health Care Practitioner** to manage their condition



### ADULTS

**Rosacea** is most commonly seen in adults

Excessive **UV exposure** increases the risk of skin damage such as wrinkles, photodamage and skin cancers

**Two out of three women worldwide** say that looking refreshed and **improving their skin quality** is the primary goal of their facial injectable treatment

11%

**PSORIASIS** affects up to 11% of adults worldwide



50%

More than 50% of elderly patients have **XEROSIS**

### SENIORS

**Pruritus** is one of the most disturbing and burdensome skin symptoms in the elderly

The most prevalent predisposing risk factors for developing **onychomycosis** are advanced age, diabetes and obesity



## STAY HEALTHY

**2 billion** of the global population will be over the age of 60 by 2050



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# References

- Al'Abadie and al., 1994. *BJD* ; 130: 199-203.
- Amaro-Ortiz and al., 2014. *Molecules* ; 19(5): 6202–6219.
- Baran and al., 2005. *Le JACQ* ; 4(1): 18-23.
- Baviera and al., 2014. *BioMed Res Int* ; 2014.
- Biniek and al., 2012. *PNAS* ; 109(42): 17111-17116.
- Birch and al., 2001. *BJD* ; 144: 297-304.
- Boehm and al., 2012. *Contact Dermatitis* ; 67: 184–192.
- Bouslimani and al., 2015. *PNAS* ; 112(17): 2120-2129.
- Buller and al., 2016. *Contemp Clin. Trials* ; 46: 67–76.
- Chinnah and Gupta, 2014. *Australian Family Physician* ; 43(10): 710-713.
- Di Landro and al., 2012. *J Am Acad Dermatol* ; 67: 1129-1135.
- Draelos, 2010. *Clinics in Dermatology* ; 28: 400–408.
- Elewski and al., 2011. *JEADV* ; 25: 188–200.
- Fartasch and al., 2012. *Dtsch Arztebl* ; 109(43): 715–720.
- Fink and al., 2012. *International Journal of Cosmetic Science* ; 34: 307–310.
- Fink and al., 2016. *Frontiers in Psychology* ; 7: 1893.
- Fleckman and al., 2013. *Anat Rec* ; 296(3): 521–532.
- Freiman and al., 2004. *J Cutan Med Surg* ; 8: 415–423.
- Gao and al., 2017. *JDS* ; 86: 21-29.
- Ghannoum and Isham, 2014. *PLoS* ; 10(6): e1004105.
- Ghatak and al., 2015. *The Am Soc of Gene & Cell Ther* ; 23(7): 1201-1210.
- Gomez-Cabrera and al., 2008. *Free Radical Biology & Medicine* ; 44: 126-131.
- Goodier and Hordinsky, 2015. *Curr Probl Dermatol* ; 47: 1-9.
- Gupta and al., 2005. *BJD* ; 153: 1176-1181.
- Ismail and al., 2012. *BMC Dermatol* ; 12:13.
- Kim and al., 2013. *J Allergy Clin Immunol* ; 132(2): 495-498.
- Kruk and Duchnik, 2015. *Asian Pac J Cancer Prev* ; 15(2): 561-568.
- Kruk, 2011. *Medicina Sportiva* ; 15 (1): 30-40.
- Liakou and al., 2014. *J Drugs Dermatol* ; 12(10): 1104-1109.
- Lifschitz, 2015. *Ann Nutr Metab* ; 66(1): 34-40.
- Lynn and., 2016. *Adolescent Health, Medicine and Therapeutics* ; 7: 13-25.
- Marsh and al., 2015. *International Journal of Cosmetic Science* ; 37(2): 16-24.
- Michalek and al., 2016. *JEADV* ; 31: 205-212.
- Nutten, 2015. *Ann Nutr Metab* ; 66(1): 8-16.
- Oliveira Monteiro and al., 2006. *Cosmetic Dermatology* ; 19(4): 287-289.
- Parna and al., 2014. *Acta Derma Vener* ; 95: 312–316.
- Paul and al., 2011. *Dermatology* ; 223: 260–265.
- Porcheron and al., 2014. *International Journal of Cosmetic Science* ; 36: 312–320.
- Rice, 2011. *J Cosmet Sci* ; 62(2): 229–236.
- Saito and al., 2015. *JDS* ; 79: 187-193.
- Schons and al., 2014. *An Bras Dermatol* ; 89(2): 312-317.
- Scult and al., 2015. *Adv Mind Body Med* ; 29(1): 26–33.
- Song and al., 2011. *Environmental Research* ; 111: 394-399.
- Surber and Kottner, 2015. *G Ital Dermatol Venereol* ; 150: 699-716.
- Thomsen, 2014. *ISRN Allergy* ; 2014: 354250.
- Westgate and al., 2013. *International Journal of Cosmetic Science* ; 35: 329–336.
- Winkelman, 2016. *The Journal on Active Aging*.
- World Population Prospect: The 2015 Revision.
- Zouboulis, 2014. *Clinics in Dermatol* ; 32: 389–396.

Survey conducted in 2014 in 3 countries (Australia, Brazil & Spain), among a representative sample of 600 women, aged 30 to 60 years, who have had at least 1 facial injectable aesthetic treatment or who would consider in the future.

