Ultraviolet C Light Therapy

Indications and Contraindications

Indications		Contraindications
•	Those who have been deemed a candidate for	Contraindicated if used in combination with
_	adjunctive therapies, see "Determining	UVA or UVB rays to large body surface areas ³⁻⁴ :
	Candidacy for Adjunctive Therapies"	Congestive Heart Failure
•	To reduce bacterial burden ¹⁻²	o Diabetes
•	To produce a mild inflammatory response to	Tuberculosis
	help accelerate wound healing	Hyperthyroidism
•	To increase vascular permeability, keratinocyte	 Systemic lupus erythematous
	activation, wound epithelialization, and	 Cardiac, renal, and hepatic disease
	induction and modification of growth factors	 Herpes simplex
	and their receptors	o Syphilis
•	To activate fibroblasts and to increase DNA	o Cancer
	synthesis	 Acute febrile illness
•	To treat:	Malignant wounds or history of melanoma or
	 Chronic psoriasis 	carcinoma
	 Acne vulgaris 	In those with light allergies or light sensitive
	 Acute and chronic wounds 	diseases, i.e. porphyria or lupus erythematous
	 Uremic pruritus 	Over fresh skin grafts
	Jaundice	Direct viewing of the lamp output (goggles)
		required)
		AIDS/HIV
		Over areas of acute eczema or psoriasis
		Deep cellulitis and osteomyelitis
		• Over areas that received deep x-ray therapy in
		the past six months
		Over the thyroid gland
		Pregnancy
		In infants
		Prolonged exposure times
		Over metal implants
		Over areas of local erythema
	Precautions	·

- Ingestion of strawberries, eggs, shellfish before treatment
- Use of birth control pills, tetracycline, quinine, diuretics, and/or insulin
- Over areas of poor skin sensation
- Avoid active epiphyseal regions in children
- Avoid specialized tissues, i.e. testes
- People with little skin pigmentation, i.e. people with blonde or red hair

Level of Evidence	Definition
1A	Evidence obtained from meta-analysis or systematic review of RCTs
1B	Evidence obtained from at least one RCT
2A	Evidence obtained from at least one well-designed controlled study without randomization
2B	Evidence obtained from at least one other type of well-designed quasi-experimental study without randomization
3	Evidence obtained from well-designed non-experimental descriptive study, such as a comparative study,
	correlation study, and/or case study
4	Evidence obtained from expert committee reports or opinions and/or clinical experience of respected authority

RCT = randomized controlled trial

References

- 1. Conner-Kerr T, Albaugh KW, Woodruff LD, et al. Phototherapy in wound management. In: Sussman C, Bates-Jensen B (eds). Wound Care: A Collaborative Practice Manual for Health Professionals. Third edition. Baltimore: Lippincott Williams & Wilkins, 2007;591-611.
- 2. Taylor GJS, Bannister GC, Leeming JP. Wound disinfection with ultraviolet radiation. J Hospital Infection. 1995;30:85-93.
- 3. Weisberg J. Ultraviolet irradiation. In: Hecox B, Mehreteab TA, Weisberg J (eds). Physical Agens: A Comprehensive Text for Physical Therapists. Norwalk, CT: Appleton & Lange, 1994:377-378.
- 4. Hayes KW. Ultraviolet radiation. In: Hayes KW (ed). Manual for Physical Agents. Fifth edition. Norwalk, CT: Appleton & Lange, 1999.