Periocular Malignancies

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Description: This presentation explores the diagnosis, management, and prevention of primary skin cancers. The importance of gross observation and slit lamp biomicroscopy of the adnexa cannot be undervalued as a means of detecting, diagnosing, and managing malignancies. Treatment modalities including surgical and medical treatments are discussed.

Objectives:

- 1. Epidemiology of the most common periocular premalignant and malignant lesions.
- 2. Develop the ability to clinically identify the signs of the most common lesions.
- 3. Understanding of when to make the appropriate referral for treatment.
- 4. Awareness of current treatment options.
- 5. Discussion of patient education to promote skin cancer awareness.

Course outline:

- I. Epidemiology of primary skin cancers
 - A. World Health Organization (WHO) and global statistics
 - 1. Identification regions of greatest concern.
 - 2. Infrastructure of underdeveloped, developing, or developed countries
 - B. U.S. statistics
 - 1. Comparison to other cancers
 - 2. Burden on healthcare
 - C. Statistical trends of the incidence of primary skin cancers
 - 1. With relation to environmental influences.
 - 2. With relation to identification and treatment.
 - D. Economic burden both global and U.S.

II. Characteristics of skin cancers

- A. Signs that raise suspicion of benign vs. malignant
 - 1. The "A-B-C-D-E" rule
 - a. Asymmetric lesion
 - b. Border irregularity
 - c. Color variation or changes
 - d. Diameter is larger (6mm reference)
 - e. Elevation of lesion
- B. Symptoms that may raise concern
 - 1. Progression observed changes in size, shape, color, ulceration, others
 - 2. Aesthetics alteration in tissue appearance
 - 3. Morbidity alteration in tissue function
 - 4. Pain, sting, numb, others experienced by patient
- C. Risk factors associated with skin cancer
 - 1. Ultraviolet (UV) light exposure (chronic and acute)
 - 2. Age accumulation of toxic exogenous and endogenous factors
 - 3. Race light skin tone, ethnicity
 - 4. Gender (males > females) *

- 5. Family history
- 6. Smoking history
- 7. Human papilloma virus (HPV)
- 8. Ionizing radiation exposure
- 9. Alteration in skin integrity (example of thermal burns)
- 10. Immunosuppression (both acquired and PLANNED)

III. The most common primary skin cancers

- A. Basal cell carcinoma (BCC)
- B. Squamous cell carcinoma (cSCC, cutaneous squamous cell carcinoma)
- C. Malignant melanoma (cMM, cutaneous malignant melanoma)
- D. Sebaceous cell carcinoma (aka sebaceous gland, meibomian gland)*

IV. Characteristics of the most common primary skin cancers

- A. Most common clinical presentation of each cancer
 - 1. Signs and symptoms
 - 2. Most common location on the body
 - 3. What the primary care optometry exam should include
- B. The pathophysiology of non-melanotic and melanotic lesions
- C. Association with metastasis and mortality

V. Clinical management

- A. Who to refer to (know your options): use of proper terminology when communicating
 - 1. General vs. specialized ophthalmology (oculoplastic surgeon, when involving adnexa)
 - 2. General practitioner
 - 3. Dermatologist
 - 4. General plastic surgeon
- B. Treatment options
 - 1. Surgical general excision, Mohs micrographic surgery
 - a. Review of benefits of both (economic and efficacy)
 - 2. Non-surgical
 - a. Topical medications
 - b. Thermal intervention
 - c. Radiation
 - d. Chemotherapy
 - e. Photodynamic therapy
 - f. Experimental, others

V. Patient education

- A. Sun safe practices, providing educational information
 - 1. Literature in clinic
 - 2. Direction to web resources
 - 3. Newest options for UV protection (lotions and clothing)
- B. Commitment to skin inspection and recommended care