Disorders of Pigmentation

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Disorders of Pigmentation

• Hyperpigmentation
  - Freckles
  - Melasma
  - Café-au-lait spots
  - Lentiginosis
  - Lentigo Senilis
  - Post Inflammatory hyperpigmentation
• Hypopigmentation
  - Vitiligo
  - Post inflammatory Hypopigmentation
  - Piebaldism

Freckles

• Synonym: Ephelides
• Small light brown macules on the sun exposed skin
• Face, arm and back
• Autosomal dominant trait

Melasma

• Synonym: chloasma/ mask of pregnancy
• Acquired hypermelanosis : face
• No sign of inflammation
• Symmetry, forehead, malar, nose, skin above the upper lip and chin
• Genetically predisposition, pregnancy or oral contraceptive

Aetiology

• UV exposure
• Hormonal : Estrogen, Progesteron and MSH, Oral contraceptive and pregnancy
• Genetic predisposition
• Race
• Cosmetic : coloring, parfum or others that cause photosensitivity
• Medication: Cytostatic etc
• Idiopathic

Treatment

• Sunscreen
• Phenol 40%
• Laser Photoselective
Clinical Classification

- Centro-facial (63%): forehead, nose, medial side of cheek and chin
- Malar (21%): nose and lateral side of cheek
- Mandibular (16%): mandibular region

FACTS

- Increase number and activity of melanocyte in the epidermis
- Increase number of melanophages in the dermis
- Type: epidermal, Dermal and mixed type
- The epidermal type response to topical depigmentating agents

Treatment

- Avoid Sun exposure
- Use sunscreen
- Depigmenting agents: Hydroquinone 2-4% alone or combination with Tretinoin, Azelaic Acid
- Chemical Peeling
- Many cases respond well to 1st generation IPL

Café-au-lait spots

- Pale brown Macules that varies in size from 0.5-20 cm
- Found in any cutaneous surface
- May present at birth, increase in number and size with age
- Children older than 5 years, have 6 or more macules bigger than 1.5 cm are presumptive evidence of Neurofibromatosis
- Do not respond with Hydroquinone

LEOPARD SYNDROME

- Lentigines
- Ekg abnormality
- Ocular defect
- Pulmonary stenosis
- Abnormal genitalia
- Retarded growth
- Deafness-sensory
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Lentigo Senilis
- Brown macular spot on the chronic sun exposed skin (photo aging skin)
- Do biopsy on the Irregular pigmentation, highly irregular border, localized increase in pigmentation lentigo senilis to rule out Lentigo Maligna.

Lentigo Senilis
- Cryotherapy
- Laser Photoselective thermolysis

Lentigo Senilis
- Is a solar lentige, due to excessive sun exposure

Post inflammatory Hyperpigmentation
Post inflammatory Hyperpigmentation

- TREATMENT:
  - Sun avoidance
  - Costicosteroid Topical.

Penyebab Vitiligo

- Genetic
- Auto antibody, auto toxicity: seringkali berkaitan dengan penyakit autoimun seperti
  - Hashimoto’s disease,
  - Grave’s disease,
  - anemia perniasosa,
  - Addison’s disease

VITILIGO

- Acquired loss of pigmentation, absence of Epidermal melanocyte
- Cause: Not Clear, May have autoantibody against melanocyte.
- Many have family history

VITILIGO segmental

Klasifikasi Vitiligo berdasarkan area yg terkena

- lokalisata:
  - fokal
  - segmental : dermatomal
  - mukosal : bibir, anogenital
- generalisata:
  - akro-facial
  - vulgaris

Vitiligo

- Macula atau patch depigmentasi (berwarna putih gading) yang timbul secara tiba-tiba dan biasanya melebar
- Patogenesa: penghancuran melanosit
VITILIGO

PUVA 1-2 kali sebulan, Kdg 1 kali dalam 2 bulan, total 5 kali

Treatment - PUVA - Narrow band UVB - Normal UVB - Eximer laser - Systemic Steroid in rapid progression case - Melanocyte grafting

Post Inflammatory Hypopigmentation

Post Inflammatory Hypopigmentation

Piebaldism

- Congenital
- Autosomal Dominant
- They are sisters
- Genodermatosis
- Partial or localized albinism

Café Au Lait Macules

- tanda lahir yang berupa bercak/patch yang berwarna seperti kopi susu
- identifikasi adanya neurofibromatosis (bila terdapat 6 atau lebih café au lait macules)
- Penatalaksanaan : dibiarakan