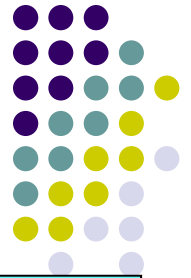


Pigmented Eyelid and Epibulbar Lesions



Ocular wordcytosis

Congenital two words of skin

Benign

- 1) word (synonym)
- 2) two words
- 3) word

Malignant word of the conj



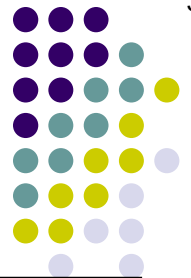
Pigmented Eyelid and Epibulbar Lesions

Ocular melanocytosis

Congenital nevocellular nevi of skin

Benign
1) Freckle (ephelis)
2) Racial melanosis
3) Nevus

Malignant
Melanoma of the conj



Pigmented Eyelid and Epibulbar Lesions

Ocular melanocytosis

Congenital nevocellular nevi of skin

Benign
1) Freckle (ephelis)
2) Racial melanosis
3) Nevus
'Racial melanosis' is also known as...

Malignant
Melanoma of the conj



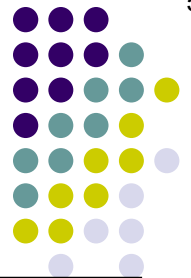
Pigmented Eyelid and Epibulbar Lesions

Ocular melanocytosis

Congenital nevocellular nevi of skin

Benign
1) Freckle (ephelis)
2) Racial melanosis
3) Nevus
'Racial melanosis' is also known as...complexion-associated melanosis (CAM)

Malignant
Melanoma of the conj



Pigmented Eyelid and Epibulbar Lesions

Ocular melanocytosis

Congenital nevocellular nevi of skin

Benign
1) Freckle (ephelis)
2) Racial melanosis
3) Nevus
--Is a hamartoma vs choristoma

Malignant
Melanoma of the conj



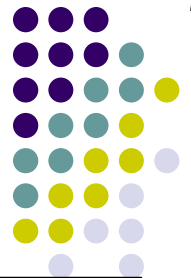
Pigmented Eyelid and Epibulbar Lesions

Ocular melanocytosis

Congenital nevocellular nevi of skin

Benign
1) Freckle (ephelis)
2) Racial melanosis
3) Nevus
--Is a hamartoma

Malignant
Melanoma of the conj



Pigmented Eyelid and Epibulbar Lesions

Ocular melanocytosis

Congenital nevocellular nevi of skin

Benign

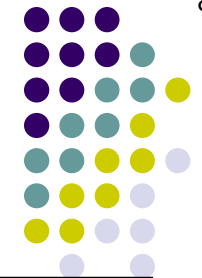
- 1) Freckle (ephelis)
- 2) Racial melanosis
- 3) Nevus

--Is a hamartoma

--Progress from location nevus →

location / nevus → location nevus

Malignant
Melanoma of the conj



Pigmented Eyelid and Epibulbar Lesions

Ocular melanocytosis

Congenital nevocellular nevi of skin

Benign
1) Freckle (ephelis)
2) Racial melanosis
3) Nevus
--Is a hamartoma
--Progress from *junctional* nevus →
compound nevus → *subepithelial* nevus

Malignant
Melanoma of the conj



Pigmented Eyelid and Epibulbar Lesions

Ocular melanocytosis

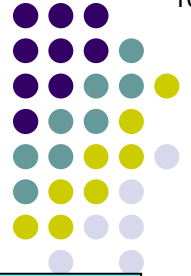
Congenital nevocellular nevi of skin

Benign
1) Freckle (ephelis)
2) Racial melanosis
3) Nevus
--Is a hamartoma
--Progress from *junctional* nevus →
compound nevus → **subepithelial** nevus
aka...?

Malignant
Melanoma of the conj

What's the other name for a subepithelial nevus?

Pigmented Eyelid and Epibulbar Lesions



Ocular melanocytosis

Congenital nevocellular nevi of skin

Benign

- 1) Freckle (ephelis)
- 2) Racial melanosis
- 3) Nevus

--Is a hamartoma

--Progress from *junctional* nevus →

compound nevus → **subepithelial** nevus

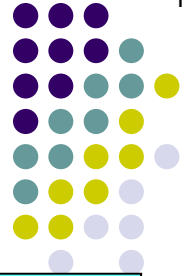
aka...*dermal* nevus

Malignant

Melanoma of the conj

What's the other name for a subepithelial nevus?
A **dermal** nevus

Pigmented Eyelid and Epibulbar Lesions



Ocular melanocytosis

Congenital nevocellular nevi of skin

Benign

- 1) Freckle (ephelis)
- 2) Racial melanosis
- 3) Nevus

--Is a hamartoma

--Progress from *junctional* nevus →

compound nevus → **subepithelial** nevus

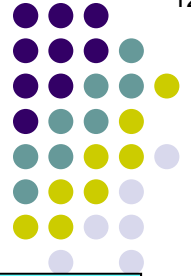
aka...*dermal* nevus

Malignant

Melanoma of the conj

For most individuals, by what age will essentially all nevi have evolved to the subepithelial stage?

Pigmented Eyelid and Epibulbar Lesions



Ocular melanocytosis

Congenital nevocellular nevi of skin

Benign

- 1) Freckle (ephelis)
- 2) Racial melanosis
- 3) Nevus

--Is a hamartoma

--Progress from *junctional* nevus →

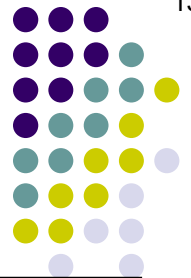
compound nevus → **subepithelial** nevus

aka...*dermal* nevus

Malignant

Melanoma of the conj

For most individuals, by what age will essentially all nevi have evolved to the subepithelial stage?
70 years



Pigmented Eyelid and Epibulbar Lesions

Ocular melanocytosis

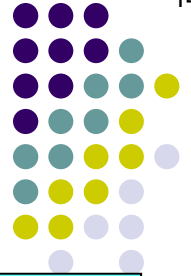
Congenital nevocellular nevi of skin

Benign

- 1) Freckle (ephelis)
- 2) Racial melanosis
- 3) Nevus
 - Is a hamartoma
 - Progress from **junctional** nevus → **compound** nevus → **subepithelial** nevus

Malignant
Melanoma of the conj

Type of Nevus	Pigmented?	Elevated?
Junctional	?	?
Compound		
Subepi/Dermal		



Pigmented Eyelid and Epibulbar Lesions

Ocular melanocytosis

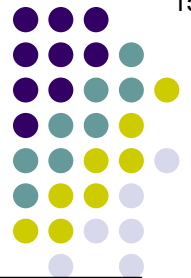
Congenital nevocellular nevi of skin

Benign

- 1) Freckle (ephelis)
- 2) Racial melanosis
- 3) Nevus
 - Is a hamartoma
 - Progress from **junctional** nevus → **compound** nevus → **subepithelial** nevus

Malignant
Melanoma of the conj

Type of Nevus	Pigmented?	Elevated?
Junctional	Yes	No
Compound	?	?
Subepi/Dermal		



Pigmented Eyelid and Epibulbar Lesions

Ocular melanocytosis

Congenital nevocellular nevi of skin

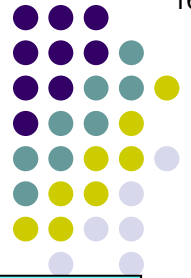
Benign

- 1) Freckle (ephelis)
- 2) Racial melanosis
- 3) Nevus
 - Is a hamartoma
 - Progress from *junctional* nevus → *compound* nevus → *subepithelial* nevus

Malignant
Melanoma of the conj

Type of Nevus	Pigmented?	Elevated?
Junctional	Yes	No
Compound	Yes	Yes
Subepi/Dermal	?	?

Pigmented Eyelid and Epibulbar Lesions



Ocular melanocytosis

Congenital nevocellular nevi of skin

Benign

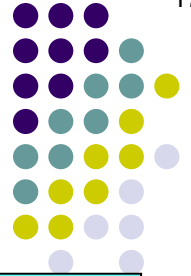
- 1) Freckle (ephelis)
- 2) Racial melanosis
- 3) Nevus
 - Is a hamartoma
 - Progress from **junctional** nevus → **compound** nevus → **subepithelial** nevus

Malignant

Melanoma of the conj

Type of Nevus	Pigmented?	Elevated?
Junctional	Yes	No
Compound	Yes	Yes
Subepi/Dermal	No	No (or very little)

Pigmented Eyelid and Epibulbar Lesions



Ocular melanocytosis

Congenital nevocellular nevi of skin

Benign

- 1) Freckle (ephelis)
- 2) Racial melanosis
- 3) Nevus

--Is a hamartoma

--Progress from *junctional* nevus →

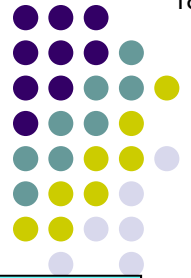
compound nevus → *subepithelial* nevus

--1/2 contain two words cysts

Malignant

Melanoma of the conj

Pigmented Eyelid and Epibulbar Lesions



Ocular melanocytosis

Congenital nevocellular nevi of skin

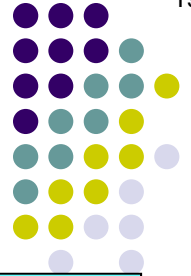
Benign

- 1) Freckle (ephelis)
- 2) Racial melanosis
- 3) Nevus
 - Is a hamartoma
 - Progress from *junctional* nevus → *compound* nevus → *subepithelial* nevus
 - 1/2 contain epithelial inclusion cysts

Malignant

Melanoma of the conj

Pigmented Eyelid and Epibulbar Lesions



Ocular melanocytosis

Congenital nevocellular nevi of skin

Benign

- 1) Freckle (ephelis)
- 2) Racial melanosis
- 3) Nevus

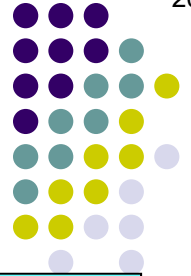
- Is a hamartoma
- Progress from *junctional* nevus → *compound* nevus → *subepithelial* nevus
- 1/2 contain *epithelial inclusion* cysts
- Goblet cells in cyst secrete stuff → lesion enlarges → false impression of

bad thing

Malignant

Melanoma of the conj

Pigmented Eyelid and Epibulbar Lesions



Ocular melanocytosis

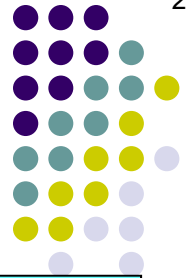
Congenital nevocellular nevi of skin

Benign

- 1) Freckle (ephelis)
- 2) Racial melanosis
- 3) Nevus
 - Is a hamartoma
 - Progress from *junctional* nevus → *compound* nevus → *subepithelial* nevus
 - 1/2 contain *epithelial inclusion* cysts
 - Goblet cells in cyst secrete *mucin* → lesion enlarges → false impression of malignant transformation

Malignant

Melanoma of the conj



Pigmented Eyelid and Epibulbar Lesions

Ocular melanocytosis

Congenital nevocellular nevi of skin

Benign

- 1) Freckle (ephelis)
- 2) Racial melanosis
- 3) Nevus

- Is a hamartoma
- Progress from *junctional* nevus → *compound* nevus → *subepithelial* nevus
- 1/2 contain *epithelial inclusion* cysts
- Goblet cells in cyst secrete *mucin* → lesion enlarges → false impression of *malignant transformation*
- Rapid enlargement during teens

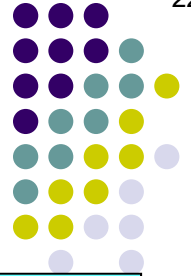
common v
uncommon

is/
isn't worrisome for malignant change

Malignant

Melanoma of the conj

Pigmented Eyelid and Epibulbar Lesions



Ocular melanocytosis

Congenital nevocellular nevi of skin

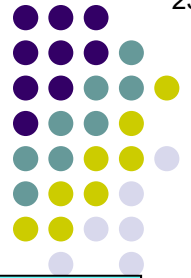
Benign

- 1) Freckle (ephelis)
- 2) Racial melanosis
- 3) Nevus
 - Is a hamartoma
 - Progress from *junctional* nevus → *compound* nevus → *subepithelial* nevus
 - 1/2 contain *epithelial inclusion* cysts
 - Goblet cells in cyst secrete *mucin* → lesion enlarges → false impression of *malignant transformation*
 - Rapid enlargement during teens *common*, *not* worrisome for malignant change

Malignant

Melanoma of the conj

Pigmented Eyelid and Epibulbar Lesions



Ocular melanocytosis

Congenital nevocellular nevi of skin

Benign

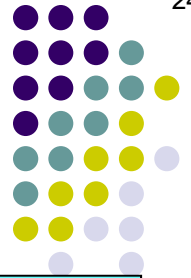
- 1) Freckle (ephelis)
- 2) Racial melanosis
- 3) Nevus
 - Is a hamartoma
 - Progress from *junctional* nevus → *compound* nevus → *subepithelial* nevus
 - 1/2 contain *epithelial inclusion* cysts
 - Goblet cells in cyst secrete *mucin* → lesion enlarges → false impression of *malignant transformation*
 - Rapid enlargement during teens *common*, *not* worrisome for malignant change

Malignant

Melanoma of the conj

--Prevalence ## whites

Pigmented Eyelid and Epibulbar Lesions



Ocular melanocytosis

Congenital nevocellular nevi of skin

Benign

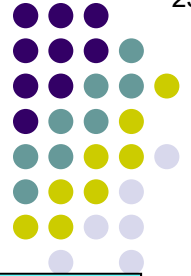
- 1) Freckle (ephelis)
- 2) Racial melanosis
- 3) Nevus
 - Is a hamartoma
 - Progress from *junctional* nevus → *compound* nevus → *subepithelial* nevus
 - 1/2 contain *epithelial inclusion* cysts
 - Goblet cells in cyst secrete *mucin* → lesion enlarges → false impression of *malignant transformation*
 - Rapid enlargement during teens *common*, *not* worrisome for malignant change

Malignant

Melanoma of the conj

--Prevalence 1-2/million whites

Pigmented Eyelid and Epibulbar Lesions



Ocular melanocytosis

Congenital nevocellular nevi of skin

Benign

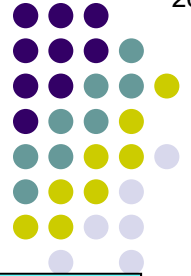
- 1) Freckle (ephelis)
- 2) Racial melanosis
- 3) Nevus
 - Is a hamartoma
 - Progress from *junctional* nevus → *compound* nevus → *subepithelial* nevus
 - 1/2 contain *epithelial inclusion* cysts
 - Goblet cells in cyst secrete *mucin* → lesion enlarges → false impression of *malignant transformation*
 - Rapid enlargement during teens *common*, *not* worrisome for malignant change

Malignant

Melanoma of the conj

- Prevalence 1-2/million whites
- Metastasize? (Y/N)

Pigmented Eyelid and Epibulbar Lesions



Ocular melanocytosis

Congenital nevocellular nevi of skin

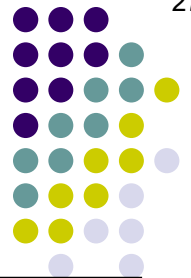
Benign

- 1) Freckle (ephelis)
- 2) Racial melanosis
- 3) Nevus
 - Is a hamartoma
 - Progress from *junctional* nevus → *compound* nevus → *subepithelial* nevus
 - 1/2 contain *epithelial inclusion* cysts
 - Goblet cells in cyst secrete *mucin* → lesion enlarges → false impression of *malignant transformation*
 - Rapid enlargement during teens *common*, *not* worrisome for malignant change

Malignant

Melanoma of the conj

- Prevalence 1-2/million whites
- Metastasize? *Yes*



Pigmented Eyelid and Epibulbar Lesions

Ocular melanocytosis

Congenital nevocellular nevi of skin

Benign

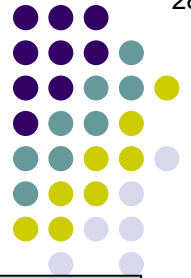
- 1) Freckle (ephelis)
- 2) Racial melanosis
- 3) Nevus
 - Is a hamartoma
 - Progress from *junctional* nevus → *compound* nevus → *subepithelial* nevus
 - 1/2 contain epithelial inclusion cysts
 - Goblet cells in cyst secrete mucin → lesion enlarges → false impression of malignant transformation
 - Rapid enlargement during teens common, not worrisome for malignant change

Malignant

Melanoma of the conj

- Prevalence 1-2/million whites
- Metastasize? Yes
- 70% arise from abb., 5% from acquired (not congenital) nevi, 25%

Pigmented Eyelid and Epibulbar Lesions



Ocular melanocytosis

Congenital nevocellular nevi of skin

Benign

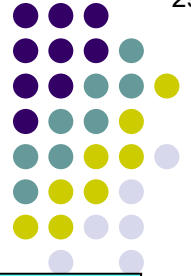
- 1) Freckle (ephelis)
- 2) Racial melanosis
- 3) Nevus
 - Is a hamartoma
 - Progress from *junctional* nevus → *compound* nevus → *subepithelial* nevus
 - 1/2 contain *epithelial inclusion* cysts
 - Goblet cells in cyst secrete *mucin* → lesion enlarges → false impression of *malignant transformation*
 - Rapid enlargement during teens *common*, *not* worrisome for malignant change

Malignant

Melanoma of the conj

- Prevalence 1-2/million whites
- Metastasize? *Yes*
- 70% arise from *PAM*, 5% from acquired (not congenital) nevi, 25% *de novo*

Pigmented Eyelid and Epibulbar Lesions



Ocular melanocytosis

Congenital nevocellular nevi of skin

Benign

- 1) Freckle (ephelis)
- 2) Racial melanosis
- 3) Nevus

- Is a hamartoma
- Progress from *junctional* nevus → *compound* nevus → *subepithelial* nevus
- 1/2 contain epithelial inclusion cysts
- Goblet cells in cyst secrete mucin → lesion enlarges → false impression of malignant transformation
- Rapid enlargement during teens common, not worrisome for malignant change

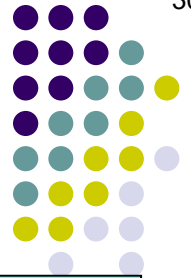
Malignant

Melanoma of the conj

- Prevalence 1-2/million whites
- Metastasize? Yes
- 70% arise from **PAM**, 5% from acquired (not congenital) nevi, 25% de novo

In this context, what does PAM stand for?

Pigmented Eyelid and Epibulbar Lesions



Ocular melanocytosis

Congenital nevocellular nevi of skin

Benign

- 1) Freckle (ephelis)
- 2) Racial melanosis
- 3) Nevus

- Is a hamartoma
- Progress from *junctional* nevus → *compound* nevus → *subepithelial* nevus
- 1/2 contain epithelial inclusion cysts
- Goblet cells in cyst secrete mucin → lesion enlarges → false impression of malignant transformation
- Rapid enlargement during teens common, not worrisome for malignant change

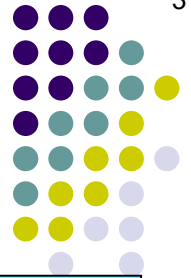
Malignant

Melanoma of the conj

- Prevalence 1-2/million whites
- Metastasize? Yes
- 70% arise from **PAM**, 5% from acquired (not congenital) nevi, 25% de novo

In this context, what does PAM stand for?
Primary acquired melanosis

Pigmented Eyelid and Epibulbar Lesions



Ocular melanocytosis

Congenital nevocellular nevi of skin

Benign

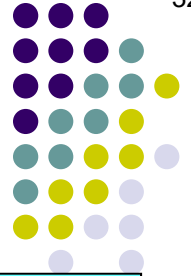
- 1) Freckle (ephelis)
- 2) Racial melanosis
- 3) Nevus
 - Is a hamartoma
 - Progress from *junctional* nevus → *compound* nevus → *subepithelial* nevus
 - 1/2 contain epithelial inclusion cysts
 - Goblet cells in cyst secrete mucin → lesion enlarges → false impression of malignant transformation
 - Rapid enlargement during teens common, not worrisome for malignant change

There has never been a documented case of *malignant transformation* of a nevi before age...

Malignant

- Metastasize? Yes
- 70% arise from PAM, **5% from acquired (not congenital) nevi**, 25% de novo

Pigmented Eyelid and Epibulbar Lesions



Ocular melanocytosis

Congenital nevocellular nevi of skin

Benign

- 1) Freckle (ephelis)
- 2) Racial melanosis
- 3) Nevus
 - Is a hamartoma
 - Progress from *junctional* nevus → *compound* nevus → *subepithelial* nevus
 - 1/2 contain epithelial inclusion cysts
 - Goblet cells in cyst secrete mucin → lesion enlarges → false impression of malignant transformation
 - Rapid enlargement during teens common, not worrisome for malignant change

There has never been a documented case of *malignant transformation* of a nevi before age...20 years

Malignant

- Metastasize? Yes
- 70% arise from PAM, **5% from acquired (not congenital) nevi**, 25% de novo



Pigmented Eyelid and Epibulbar Lesions

Ocular melanocytosis

Congenital nevocellular nevi of skin

Benign
1) Freckle (ephelis)
2) Racial melanosis
3) Nevus
--Is a hamartoma
--Progress from *junctional* nevus → *compound* nevus → *subepithelial* nevus
--1/2 contain epithelial inclusion cysts
--Goblet cells in cyst secrete mucin → lesion enlarges → false impression of malignant transformation
--Rapid enlargement during teens common, not worrisome for malignant change

Malignant
Melanoma of the conj
--Prevalence 1-2/million whites
--Metastasize? Yes
--70% arise from PAM, 5% from acquired (not congenital) nevus, **25% de novo**

After what age would the appearance of a new pigmented lesion be worrisome for a melanoma?

Pigmented Eyelid and Epibulbar Lesions



Ocular melanocytosis

Congenital nevocellular nevi of skin

Benign

- 1) Freckle (ephelis)
- 2) Racial melanosis
- 3) Nevus

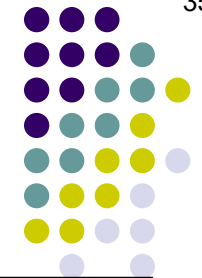
- Is a hamartoma
- Progress from *junctional* nevus → *compound* nevus → *subepithelial* nevus
- 1/2 contain epithelial inclusion cysts
- Goblet cells in cyst secrete mucin → lesion enlarges → false impression of malignant transformation
- Rapid enlargement during teens common, not worrisome for malignant change

Malignant

Melanoma of the conj

- Prevalence 1-2/million whites
- Metastasize? Yes
- 70% arise from PAM, 5% from acquired (not congenital) nevus, **25% de novo**

After what age would the appearance of a new pigmented lesion be worrisome for a melanoma?
20 years



Pigmented Eyelid and Epibulbar Lesions

Ocular melanocytosis

Congenital nevocellular nevi of skin

Benign

- 1) Freckle (ephelis)
- 2) Racial melanosis
- 3) Nevus

- Is a hamartoma
- Progress from *junctional nevus* → *compound nevus* → *subepithelial nevus*
- 1/2 contain epithelial inclusion cysts
- Goblet cells in cyst secrete mucin → lesion enlarges → false impression of malignant transformation
- Rapid enlargement during teens common, not worrisome for malignant change

There has never been a documented case of **malignant transformation** of a nevi before age. **20 years**

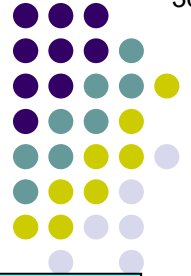
There's that number again...

Malignant

- Metastasize? Yes
- 70% arise from PAM, 5% from acquired (not congenital) nevi, **25% de novo**

After what age would the appearance of a new pigmented lesion be worrisome for a melanoma?
20 years

Pigmented Eyelid and Epibulbar Lesions



Ocular melanocytosis

Congenital nevocellular nevi of skin

Benign

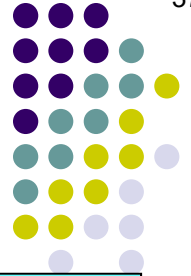
- 1) Freckle (ephelis)
- 2) Racial melanosis
- 3) Nevus
 - Is a hamartoma
 - Progress from *junctional* nevus → *compound* nevus → *subepithelial* nevus
 - 1/2 contain *epithelial inclusion* cysts
 - Goblet cells in cyst secrete *mucin* → lesion enlarges → false impression of *malignant transformation*
 - Rapid enlargement during teens *common*, *not* worrisome for malignant change

Malignant

Melanoma of the conj

- Prevalence 1-2/million whites
- Metastasize? *Yes*
- 70% arise from *PAM*, 5% from acquired (not congenital) nevi, 25% *de novo*
- Prognosis:
 - better vs worse than cutaneous

Pigmented Eyelid and Epibulbar Lesions



Ocular melanocytosis

Congenital nevocellular nevi of skin

Benign

- 1) Freckle (ephelis)
- 2) Racial melanosis
- 3) Nevus

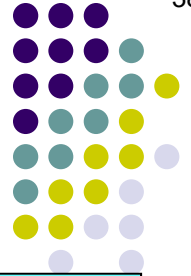
- Is a hamartoma
- Progress from *junctional* nevus → *compound* nevus → *subepithelial* nevus
- 1/2 contain *epithelial inclusion* cysts
- Goblet cells in cyst secrete *mucin* → lesion enlarges → false impression of *malignant transformation*
- Rapid enlargement during teens *common*, *not* worrisome for malignant change

Malignant

Melanoma of the conj

- Prevalence 1-2/million whites
- Metastasize? *Yes*
- 70% arise from *PAM*, 5% from acquired (not congenital) nevi, 25% *de novo*
- Prognosis:
 - Better* than cutaneous

Pigmented Eyelid and Epibulbar Lesions



Ocular melanocytosis

Congenital nevocellular nevi of skin

While it may be better than the cutaneous version, is it reasonable to say that conj melanoma has a **good** prognosis?

Benign

- 1) Freckle (ephelis)
- 2) Racial melanosis
- 3) Nevus

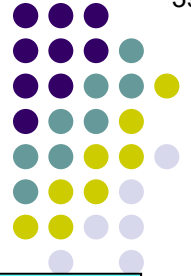
- Is a **hamartoma**
- Progress from *junctional* nevus → *compound* nevus → *subepithelial* nevus
- 1/2 contain **epithelial inclusion** cysts
- Goblet cells in cyst secrete **mucin** → lesion enlarges → false impression of **malignant transformation**
- Rapid enlargement during teens **common**, **not** worrisome for malignant change

--70% arise from PAM, 5% from acquired (not congenital) nevi, 25% de novo

--Prognosis:

--**Better** than cutaneous

Pigmented Eyelid and Epibulbar Lesions



Ocular melanocytosis

Congenital nevocellular nevi of skin

While it may be better than the cutaneous version, is it reasonable to say that conj melanoma has a **good** prognosis?
No, probably not

Benign

- 1) Freckle (ephelis)
- 2) Racial melanosis
- 3) Nevus

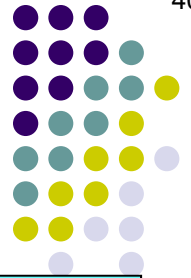
- Is a **hamartoma**
- Progress from *junctional* nevus → *compound* nevus → *subepithelial* nevus
- 1/2 contain **epithelial inclusion** cysts
- Goblet cells in cyst secrete **mucin** → lesion enlarges → false impression of **malignant transformation**
- Rapid enlargement during teens **common**, **not** worrisome for malignant change

--70% arise from PAM, 5% from acquired (not congenital) nevi, 25% de novo

--Prognosis:

--**Better** than cutaneous

Pigmented Eyelid and Epibulbar Lesions



Ocular melanocytosis

Congenital nevocellular nevi of skin

While it may be better than the cutaneous version, is it reasonable to say that conj melanoma has a **good** prognosis?
No, probably not

What is the mortality rate of conj melanoma?

Benign

- 1) Freckle (ephelis)
- 2) Racial melanosis
- 3) Nevus

- Is a hamartoma
- Progress from *junctional* nevus → *compound* nevus → *subepithelial* nevus
- 1/2 contain *epithelial inclusion* cysts
- Goblet cells in cyst secrete *mucin* → lesion enlarges → false impression of *malignant transformation*
- Rapid enlargement during teens *common*, *not* worrisome for malignant change

--70% arise from PAM, 5% from acquired (not congenital) nevi, 25% de novo

--Prognosis:

--**Better** than cutaneous



Pigmented Eyelid and Epibulbar Lesions

Ocular melanocytosis

Congenital nevocellular nevi of skin

While it may be better than the cutaneous version, is it reasonable to say that conj melanoma has a **good** prognosis?
 No, probably not

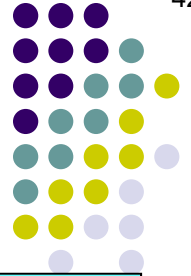
What is the mortality rate of conj melanoma?
 About 25%

- Benign**
- 1) Freckle (ephelis)
 - 2) Racial melanosis
 - 3) Nevus
 - Is a hamartoma
 - Progress from *junctional* nevus → *compound* nevus → *subepithelial* nevus
 - 1/2 contain epithelial inclusion cysts
 - Goblet cells in cyst secrete mucin → lesion enlarges → false impression of malignant transformation
 - Rapid enlargement during teens common, not worrisome for malignant change

--70% arise from PAM, 5% from acquired (not congenital) nevi, 25% de novo

--Prognosis:
 --**Better** than cutaneous

Pigmented Eyelid and Epibulbar Lesions



Ocular melanocytosis

Congenital nevocellular nevi of skin

Benign

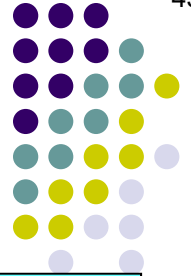
- 1) Freckle (ephelis)
- 2) Racial melanosis
- 3) Nevus
 - Is a hamartoma
 - Progress from *junctional* nevus → *compound* nevus → *subepithelial* nevus
 - 1/2 contain *epithelial inclusion* cysts
 - Goblet cells in cyst secrete *mucin* → lesion enlarges → false impression of *malignant transformation*
 - Rapid enlargement during teens *common*, *not* worrisome for malignant change

Malignant

Melanoma of the conj

- Prevalence 1-2/million whites
 - Metastasize? *Yes*
 - 70% arise from *PAM*, 5% from acquired (not congenital) nevi, 25% *de novo*
 - Prognosis:
 - Better* than cutaneous
 - By location: Bulbar >> nonbulbar
Limbal >> nonlimbal
- > = 'better than'
< = 'worse than'

Pigmented Eyelid and Epibulbar Lesions



Ocular melanocytosis

Congenital nevocellular nevi of skin

Benign

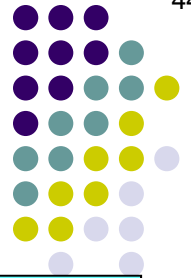
- 1) Freckle (ephelis)
- 2) Racial melanosis
- 3) Nevus
 - Is a hamartoma
 - Progress from *junctional* nevus → *compound* nevus → *subepithelial* nevus
 - 1/2 contain *epithelial inclusion* cysts
 - Goblet cells in cyst secrete *mucin* → lesion enlarges → false impression of *malignant transformation*
 - Rapid enlargement during teens *common*, *not* worrisome for malignant change

Malignant

Melanoma of the conj

- Prevalence 1-2/million whites
- Metastasize? *Yes*
- 70% arise from *PAM*, 5% from acquired (not congenital) nevi, 25% *de novo*
- Prognosis:
 - Better* than cutaneous
 - By location: Bulbar > nonbulbar
Limbal > nonlimbal

Pigmented Eyelid and Epibulbar Lesions



Ocular melanocytosis

Congenital nevocellular nevi of skin

Benign

- 1) Freckle (ephelis)
- 2) Racial melanosis
- 3) Nevus
 - Is a hamartoma
 - Progress from *junctional* nevus → *compound* nevus → *subepithelial* nevus
 - 1/2 contain *epithelial inclusion* cysts
 - Goblet cells in cyst secrete *mucin* → lesion enlarges → false impression of *malignant transformation*
 - Rapid enlargement during teens *common*, *not* worrisome for malignant change

Malignant

Melanoma of the conj

- Prevalence 1-2/million whites
- Metastasize? *Yes*
- 70% arise from *PAM*, 5% from acquired (not congenital) nevi, 25% *de novo*
- Prognosis:
 - Better* than cutaneous
 - By location: Bulbar > nonbulbar
Limbal > nonlimbal
 - de novo > not de novo

Pigmented Eyelid and Epibulbar Lesions



Ocular melanocytosis

Congenital nevocellular nevi of skin

Benign

- 1) Freckle (ephelis)
- 2) Racial melanosis
- 3) Nevus

- Is a hamartoma
- Progress from *junctional* nevus → *compound* nevus → *subepithelial* nevus
- 1/2 contain *epithelial inclusion* cysts
- Goblet cells in cyst secrete *mucin* → lesion enlarges → false impression of *malignant transformation*
- Rapid enlargement during teens *common*, *not* worrisome for malignant change

Malignant

Melanoma of the conj

- Prevalence 1-2/million whites
- Metastasize? *Yes*
- 70% arise from *PAM*, 5% from acquired (not congenital) nevi, 25% *de novo*
- Prognosis:
 - Better* than cutaneous
 - By location: Bulbar > nonbulbar
Limbal > nonlimbal
 - de novo* < not *de novo*

Pigmented Eyelid and Epibulbar Lesions



Ocular melanocytosis

Congenital nevocellular nevi of skin

Benign

- 1) Freckle (ephelis)
- 2) Racial melanosis
- 3) Nevus
 - Is a hamartoma
 - Progress from *junctional* nevus → *compound* nevus → *subepithelial* nevus
 - 1/2 contain *epithelial inclusion* cysts
 - Goblet cells in cyst secrete *mucin* → lesion enlarges → false impression of *malignant transformation*
 - Rapid enlargement during teens *common*, *not* worrisome for malignant change

Malignant

Melanoma of the conj

- Prevalence 1-2/million whites
- Metastasize? *Yes*
- 70% arise from *PAM*, 5% from acquired (not congenital) nevi, 25% *de novo*
- Prognosis:
 - Better* than cutaneous
 - By location: Bulbar > nonbulbar
Limbal > nonlimbal
 - de novo < not de novo
- Management:*
 - type of biopsy

Pigmented Eyelid and Epibulbar Lesions



Ocular melanocytosis

Congenital nevocellular nevi of skin

Benign

- 1) Freckle (ephelis)
- 2) Racial melanosis
- 3) Nevus

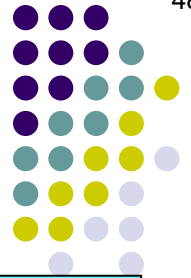
- Is a hamartoma
- Progress from *junctional* nevus → *compound* nevus → *subepithelial* nevus
- 1/2 contain *epithelial inclusion* cysts
- Goblet cells in cyst secrete *mucin* → lesion enlarges → false impression of *malignant transformation*
- Rapid enlargement during teens *common*, *not* worrisome for malignant change

Malignant

Melanoma of the conj

- Prevalence 1-2/million whites
- Metastasize? *Yes*
- 70% arise from *PAM*, 5% from acquired (not congenital) nevi, 25% *de novo*
- Prognosis:
 - Better* than cutaneous
 - By location: Bulbar > nonbulbar
Limbal > nonlimbal
 - de novo* < not *de novo*
- Management*:
 - Excisional* biopsy (no ↑ risk of mets)

Pigmented Eyelid and Epibulbar Lesions



Ocular melanocytosis

Congenital nevocellular nevi of skin

Benign

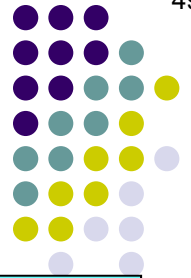
- 1) Freckle (ephelis)
- 2) Racial melanosis
- 3) Nevus
 - Is a hamartoma
 - Progress from *junctional* nevus → *compound* nevus → *subepithelial* nevus
 - 1/2 contain *epithelial inclusion* cysts
 - Goblet cells in cyst secrete *mucin* → lesion enlarges → false impression of *malignant transformation*
 - Rapid enlargement during teens *common*, *not* worrisome for malignant change

Malignant

Melanoma of the conj

- Prevalence 1-2/million whites
- Metastasize? *Yes*
- 70% arise from *PAM*, 5% from acquired (not congenital) nevi, 25% *de novo*
- Prognosis:
 - Better* than cutaneous
 - By location: Bulbar > nonbulbar
Limbal > nonlimbal
 - de novo < not de novo
- Management*:
 - Excisional* biopsy (no ↑ risk of mets)
 - surgery* if orbital

Pigmented Eyelid and Epibulbar Lesions



Ocular melanocytosis

Congenital nevocellular nevi of skin

Benign

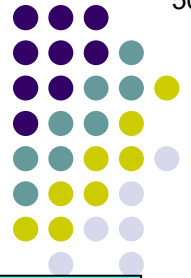
- 1) Freckle (ephelis)
- 2) Racial melanosis
- 3) Nevus
 - Is a hamartoma
 - Progress from *junctional* nevus → *compound* nevus → *subepithelial* nevus
 - 1/2 contain *epithelial inclusion* cysts
 - Goblet cells in cyst secrete *mucin* → lesion enlarges → false impression of *malignant transformation*
 - Rapid enlargement during teens *common*, *not* worrisome for malignant change

Malignant

Melanoma of the conj

- Prevalence 1-2/million whites
- Metastasize? *Yes*
- 70% arise from *PAM*, 5% from acquired (not congenital) nevi, 25% *de novo*
- Prognosis:
 - Better* than cutaneous
 - By location: Bulbar > nonbulbar
Limbal > nonlimbal
 - de novo < not de novo
- Management*:
 - Excisional* biopsy (no ↑ risk of mets)
 - Exenterate* if orbital

Pigmented Eyelid and Epibulbar Lesions



Ocular melanocytosis

Congenital nevocellular nevi of skin

Benign

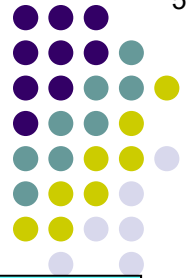
- 1) Freckle (ephelis)
- 2) Racial melanosis
- 3) Nevus
 - Is a hamartoma
 - Progress from *junctional* nevus → *compound* nevus → *subepithelial* nevus
 - 1/2 contain *epithelial inclusion* cysts
 - Goblet cells in cyst secrete *mucin* → lesion enlarges → false impression of *malignant transformation*
 - Rapid enlargement during teens *common*, *not* worrisome for malignant change

Malignant

Melanoma of the conj

- Prevalence 1-2/million whites
- Metastasize? *Yes*
- 70% arise from *PAM*, 5% from acquired (not congenital) nevi, 25% *de novo*
- Prognosis:
 - Better* than cutaneous
 - By location: Bulbar > nonbulbar
Limbal > nonlimbal
 - de novo < not de novo
- Management*:
 - Excisional* biopsy (no ↑ risk of mets)
 - Exenterate* if orbital
 - Check for uh-oh

Pigmented Eyelid and Epibulbar Lesions



Ocular melanocytosis

Congenital nevocellular nevi of skin

Benign

- 1) Freckle (ephelis)
- 2) Racial melanosis
- 3) Nevus

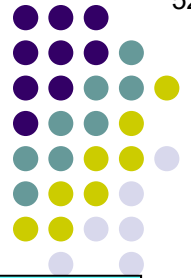
- Is a hamartoma
- Progress from *junctional* nevus → *compound* nevus → *subepithelial* nevus
- 1/2 contain *epithelial inclusion* cysts
- Goblet cells in cyst secrete *mucin* → lesion enlarges → false impression of *malignant transformation*
- Rapid enlargement during teens *common*, *not* worrisome for malignant change

Malignant

Melanoma of the conj

- Prevalence 1-2/million whites
- Metastasize? *Yes*
- 70% arise from *PAM*, 5% from acquired (not congenital) nevi, 25% *de novo*
- Prognosis:
 - Better* than cutaneous
 - By location: Bulbar > nonbulbar
Limbal > nonlimbal
 - de novo < not de novo
- Management*:
 - Excisional* biopsy (no ↑ risk of mets)
 - Exenterate* if orbital
 - Check for *lymphadenopathy*

Pigmented Eyelid and Epibulbar Lesions



Ocular melanocytosis

Congenital nevocellular nevi of skin

--aka.. AWESOME name

Benign

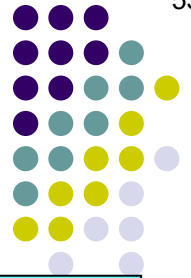
- 1) Freckle (ephelis)
- 2) Racial melanosis
- 3) Nevus
 - Is a hamartoma
 - Progress from *junctional* nevus → *compound* nevus → *subepithelial* nevus
 - 1/2 contain *epithelial inclusion* cysts
 - Goblet cells in cyst secrete *mucin* → lesion enlarges → false impression of *malignant transformation*
 - Rapid enlargement during teens *common*, *not* worrisome for malignant change

Malignant

Melanoma of the conj

- Prevalence 1-2/million whites
- Metastasize? *Yes*
- 70% arise from *PAM*, 5% from acquired (not congenital) nevi, 25% *de novo*
- Prognosis:
 - Better* than cutaneous
 - By location: Bulbar > nonbulbar
Limbal > nonlimbal
 - de novo < not de novo
- Management*:
 - Excisional* biopsy (no ↑ risk of mets)
 - Exenterate* if orbital
 - Check for *lymphadenopathy*

Pigmented Eyelid and Epibulbar Lesions



Ocular melanocytosis

Congenital nevocellular nevi of skin

--aka...giant hairy nevus

Benign

- 1) Freckle (ephelis)
- 2) Racial melanosis
- 3) Nevus

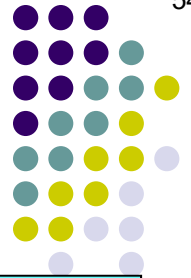
- Is a hamartoma
- Progress from *junctional* nevus → *compound* nevus → *subepithelial* nevus
- 1/2 contain *epithelial inclusion* cysts
- Goblet cells in cyst secrete *mucin* → lesion enlarges → false impression of *malignant transformation*
- Rapid enlargement during teens *common*, *not* worrisome for malignant change

Malignant

Melanoma of the conj

- Prevalence 1-2/million whites
- Metastasize? *Yes*
- 70% arise from *PAM*, 5% from acquired (not congenital) nevi, 25% *de novo*
- Prognosis:
 - Better* than cutaneous
 - By location: Bulbar > nonbulbar
Limbal > nonlimbal
 - de novo < not de novo
- Management*:
 - Excisional* biopsy (no ↑ risk of mets)
 - Exenterate* if orbital
 - Check for *lymphadenopathy*

Pigmented Eyelid and Epibulbar Lesions



Ocular melanocytosis

Congenital nevocellular nevi of skin

- aka...giant hairy nevus
- color? lesion of eyelid skin

Benign

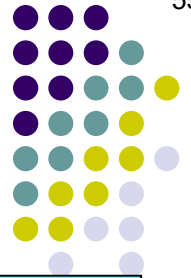
- 1) Freckle (ephelis)
- 2) Racial melanosis
- 3) Nevus
 - Is a hamartoma
 - Progress from *junctional* nevus → *compound* nevus → *subepithelial* nevus
 - 1/2 contain *epithelial inclusion* cysts
 - Goblet cells in cyst secrete *mucin* → lesion enlarges → false impression of *malignant transformation*
 - Rapid enlargement during teens *common*, *not* worrisome for malignant change

Malignant

Melanoma of the conj

- Prevalence 1-2/million whites
- Metastasize? *Yes*
- 70% arise from *PAM*, 5% from acquired (not congenital) nevi, 25% *de novo*
- Prognosis:
 - Better* than cutaneous
 - By location: Bulbar > nonbulbar
Limbal > nonlimbal
 - de novo < not de novo
- Management*:
 - Excisional* biopsy (no ↑ risk of mets)
 - Exenterate* if orbital
 - Check for *lymphadenopathy*

Pigmented Eyelid and Epibulbar Lesions



Ocular melanocytosis

Congenital nevocellular nevi of skin

- aka...**giant hairy nevus**
- Black** lesion of eyelid skin

Benign

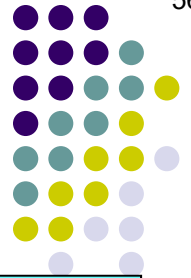
- 1) Freckle (ephelis)
- 2) Racial melanosis
- 3) Nevus
 - Is a **hamartoma**
 - Progress from *junctional* nevus → *compound* nevus → *subepithelial* nevus
 - 1/2 contain **epithelial inclusion** cysts
 - Goblet cells in cyst secrete **mucin** → lesion enlarges → false impression of **malignant transformation**
 - Rapid enlargement during teens **common**, **not** worrisome for malignant change

Malignant

Melanoma of the conj

- Prevalence **1-2/million** whites
- Metastasize? **Yes**
- 70% arise from **PAM**, 5% from acquired (not congenital) nevi, 25% **de novo**
- Prognosis:
 - Better** than cutaneous
 - By location: Bulbar > nonbulbar
Limbal > nonlimbal
 - de novo < not de novo
- Management:**
 - Excisional** biopsy (no ↑ risk of mets)
 - Exenterate** if orbital
 - Check for **lymphadenopathy**

Pigmented Eyelid and Epibulbar Lesions



Ocular melanocytosis

Congenital nevocellular nevi of skin

--aka... **giant hairy nevus**

--**Black** lesion of eyelid skin

--Malignant potential proportional to... one word

Benign

1) Freckle (ephelis)

2) Racial melanosis

3) Nevus

--Is a **hamartoma**

--Progress from *junctional* nevus →

compound nevus → *subepithelial* nevus

--1/2 contain **epithelial inclusion** cysts

--Goblet cells in cyst secrete **mucin** →
lesion enlarges → false impression of
malignant transformation

--Rapid enlargement during teens **common**,
not worrisome for malignant change

Malignant

Melanoma of the conj

--Prevalence **1-2/million** whites

--Metastasize? **Yes**

--70% arise from **PAM**, 5% from acquired
(not congenital) nevi, 25% **de novo**

--Prognosis:

--**Better** than cutaneous

--By location: Bulbar > nonbulbar
Limbal > nonlimbal

--de novo < not de novo

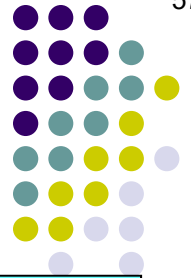
--**Management:**

--**Excisional** biopsy (no ↑ risk of mets)

--**Exenterate** if orbital

--Check for **lymphadenopathy**

Pigmented Eyelid and Epibulbar Lesions



Ocular melanocytosis

Congenital nevocellular nevi of skin

- aka...**giant hairy nevus**
- Black** lesion of eyelid skin
- Malignant potential proportional to...**size**

Benign

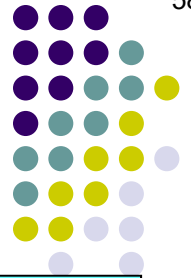
- 1) Freckle (ephelis)
- 2) Racial melanosis
- 3) Nevus
 - Is a **hamartoma**
 - Progress from *junctional* nevus → *compound* nevus → *subepithelial* nevus
 - 1/2 contain **epithelial inclusion** cysts
 - Goblet cells in cyst secrete **mucin** → lesion enlarges → false impression of **malignant transformation**
 - Rapid enlargement during teens **common**, **not** worrisome for malignant change

Malignant

Melanoma of the conj

- Prevalence **1-2/million** whites
- Metastasize? **Yes**
- 70% arise from **PAM**, 5% from acquired (not congenital) nevi, 25% **de novo**
- Prognosis:
 - Better** than cutaneous
 - By location: Bulbar > nonbulbar
Limbal > nonlimbal
 - de novo < not de novo
- Management**:
 - Excisional** biopsy (no ↑ risk of mets)
 - Exenterate** if orbital
 - Check for **lymphadenopathy**

Pigmented Eyelid and Epibulbar Lesions



Ocular melanocytosis

Congenital nevocellular nevi of skin

- aka...**giant hairy nevus**
- Black** lesion of eyelid skin
- Malignant potential proportional to...**size**
- Consider excision if larger than... #, unit

Benign

- 1) Freckle (ephelis)
- 2) Racial melanosis
- 3) Nevus
 - Is a **hamartoma**
 - Progress from *junctional* nevus → *compound* nevus → *subepithelial* nevus
 - 1/2 contain **epithelial inclusion** cysts
 - Goblet cells in cyst secrete **mucin** → lesion enlarges → false impression of **malignant transformation**
 - Rapid enlargement during teens **common**, **not** worrisome for malignant change

Malignant

Melanoma of the conj

- Prevalence **1-2/million** whites
- Metastasize? **Yes**
- 70% arise from **PAM**, 5% from acquired (not congenital) nevi, 25% **de novo**
- Prognosis:
 - Better** than cutaneous
 - By location: Bulbar > nonbulbar
Limbal > nonlimbal
 - de novo < not de novo
- Management**:
 - Excisional** biopsy (no ↑ risk of mets)
 - Exenterate** if orbital
 - Check for **lymphadenopathy**

Pigmented Eyelid and Epibulbar Lesions



Ocular melanocytosis

Congenital nevocellular nevi of skin

- aka...**giant hairy nevus**
- Black** lesion of eyelid skin
- Malignant potential proportional to...**size**
- Consider excision if larger than...**20cm**

Benign

- 1) Freckle (ephelis)
- 2) Racial melanosis
- 3) Nevus

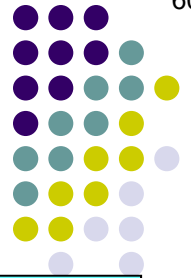
- Is a **hamartoma**
- Progress from **junctional** nevus → **compound** nevus → **subepithelial** nevus
- 1/2 contain **epithelial inclusion** cysts
- Goblet cells in cyst secrete **mucin** → lesion enlarges → false impression of **malignant transformation**
- Rapid enlargement during teens **common**, **not** worrisome for malignant change

Malignant

Melanoma of the conj

- Prevalence **1-2/million** whites
- Metastasize? **Yes**
- 70% arise from **PAM**, 5% from acquired (not congenital) nevi, 25% **de novo**
- Prognosis:
 - Better** than cutaneous
 - By location: Bulbar > nonbulbar
Limbal > nonlimbal
 - de novo < not de novo
- Management**:
 - Excisional** biopsy (no ↑ risk of mets)
 - Exenterate** if orbital
 - Check for **lymphadenopathy**

Pigmented Eyelid and Epibulbar Lesions



Ocular melanocytosis

--Pigmented lesion of eye layer (not conj!)

Congenital nevocellular nevi of skin

- aka...**giant hairy nevus**
- Black** lesion of eyelid skin
- Malignant potential proportional to...**size**
- Consider excision if larger than...**20cm**

Benign

- 1) Freckle (ephelis)
- 2) Racial melanosis
- 3) Nevus

- Is a **hamartoma**
- Progress from *junctional* nevus → *compound* nevus → *subepithelial* nevus
- 1/2 contain **epithelial inclusion** cysts
- Goblet cells in cyst secrete **mucin** → lesion enlarges → false impression of **malignant transformation**
- Rapid enlargement during teens **common**, **not** worrisome for malignant change

Malignant

Melanoma of the conj

- Prevalence **1-2/million** whites
- Metastasize? **Yes**
- 70% arise from **PAM**, 5% from acquired (not congenital) nevi, 25% **de novo**
- Prognosis:
 - Better** than cutaneous
 - By location: Bulbar > nonbulbar
Limbal > nonlimbal
 - de novo < not de novo
- Management:**
 - Excisional** biopsy (no ↑ risk of mets)
 - Exenterate** if orbital
 - Check for **lymphadenopathy**

Pigmented Eyelid and Epibulbar Lesions



Ocular melanocytosis

--Pigmented lesion of **episclera** (not conj!)

Congenital nevocellular nevi of skin

- aka...**giant hairy nevus**
- Black** lesion of eyelid skin
- Malignant potential proportional to...**size**
- Consider excision if larger than...**20cm**

Benign

- 1) Freckle (ephelis)
- 2) Racial melanosis
- 3) Nevus

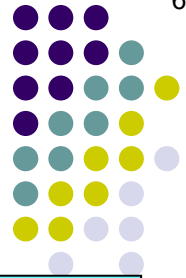
- Is a **hamartoma**
- Progress from **junctional** nevus → **compound** nevus → **subepithelial** nevus
- 1/2 contain **epithelial inclusion** cysts
- Goblet cells in cyst secrete **mucin** → lesion enlarges → false impression of **malignant transformation**
- Rapid enlargement during teens **common**, **not** worrisome for malignant change

Malignant

Melanoma of the conj

- Prevalence **1-2/million** whites
- Metastasize? **Yes**
- 70% arise from **PAM**, 5% from acquired (not congenital) nevi, 25% **de novo**
- Prognosis:
 - Better** than cutaneous
 - By location: Bulbar > nonbulbar
Limbal > nonlimbal
 - de novo < not de novo
- Management:**
 - Excisional** biopsy (no ↑ risk of mets)
 - Exenterate** if orbital
 - Check for **lymphadenopathy**

Pigmented Eyelid and Epibulbar Lesions



Ocular melanocytosis

- Pigmented lesion of **episclera** (not conj!)
- ↑ prevalence in like race, sorta peoples

Congenital nevocellular nevi of skin

- aka...**giant hairy nevus**
- Black** lesion of eyelid skin
- Malignant potential proportional to...**size**
- Consider excision if larger than...**20cm**

Benign

- 1) Freckle (ephelis)
- 2) Racial melanosis
- 3) Nevus

- Is a **hamartoma**
- Progress from **junctional** nevus → **compound** nevus → **subepithelial** nevus
- 1/2 contain **epithelial inclusion** cysts
- Goblet cells in cyst secrete **mucin** → lesion enlarges → false impression of **malignant transformation**
- Rapid enlargement during teens **common**, **not** worrisome for malignant change

Malignant

Melanoma of the conj

- Prevalence **1-2/million** whites
- Metastasize? **Yes**
- 70% arise from **PAM**, 5% from acquired (not congenital) nevi, 25% **de novo**
- Prognosis:
 - Better** than cutaneous
 - By location: Bulbar > nonbulbar
Limbal > nonlimbal
 - de novo < not de novo
- Management**:
 - Excisional** biopsy (no ↑ risk of mets)
 - Exenterate** if orbital
 - Check for **lymphadenopathy**

Pigmented Eyelid and Epibulbar Lesions



Ocular melanocytosis

- Pigmented lesion of **episclera** (not conj!)
- ↑ prevalence in **pigmented** peoples

Congenital nevocellular nevi of skin

- aka...**giant hairy nevus**
- Black** lesion of eyelid skin
- Malignant potential proportional to...**size**
- Consider excision if larger than...**20cm**

Benign

- 1) Freckle (ephelis)
- 2) Racial melanosis
- 3) Nevus

- Is a **hamartoma**
- Progress from **junctional** nevus → **compound** nevus → **subepithelial** nevus
- 1/2 contain **epithelial inclusion** cysts
- Goblet cells in cyst secrete **mucin** → lesion enlarges → false impression of **malignant transformation**
- Rapid enlargement during teens **common**, **not** worrisome for malignant change

Malignant

Melanoma of the conj

- Prevalence **1-2/million** whites
- Metastasize? **Yes**
- 70% arise from **PAM**, 5% from acquired (not congenital) nevi, 25% **de novo**
- Prognosis:
 - Better** than cutaneous
 - By location: Bulbar > nonbulbar
Limbal > nonlimbal
 - de novo < not de novo
- Management**:
 - Excisional** biopsy (no ↑ risk of mets)
 - Exenterate** if orbital
 - Check for **lymphadenopathy**

Pigmented Eyelid and Epibulbar Lesions



Ocular melanocytosis

- Pigmented lesion of **episclera** (not conj!)
- ↑ prevalence in **pigmented** peoples
- Malignant change occurs only in...

ditto

Congenital nevocellular nevi of skin

- aka...**giant hairy nevus**
- Black** lesion of eyelid skin
- Malignant potential proportional to...**size**
- Consider excision if larger than...**20cm**

Benign

- 1) Freckle (ephelis)
- 2) Racial melanosis
- 3) Nevus

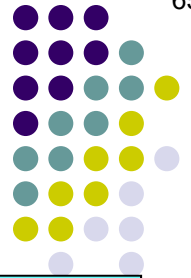
- Is a **hamartoma**
- Progress from **junctional** nevus → **compound** nevus → **subepithelial** nevus
- 1/2 contain **epithelial inclusion** cysts
- Goblet cells in cyst secrete **mucin** → lesion enlarges → false impression of **malignant transformation**
- Rapid enlargement during teens **common**, **not** worrisome for malignant change

Malignant

Melanoma of the conj

- Prevalence **1-2/million** whites
- Metastasize? **Yes**
- 70% arise from **PAM**, 5% from acquired (not congenital) nevi, 25% **de novo**
- Prognosis:
 - Better** than cutaneous
 - By location: Bulbar > nonbulbar
Limbal > nonlimbal
 - de novo < not de novo
- Management**:
 - Excisional** biopsy (no ↑ risk of mets)
 - Exenterate** if orbital
 - Check for **lymphadenopathy**

Pigmented Eyelid and Epibulbar Lesions



Ocular melanocytosis

- Pigmented lesion of **episclera** (not conj!)
- ↑ prevalence in **pigmented** peoples
- Malignant change occurs only in...**whites**

Congenital nevocellular nevi of skin

- aka...**giant hairy nevus**
- Black** lesion of eyelid skin
- Malignant potential proportional to...**size**
- Consider excision if larger than...**20cm**

Benign

- 1) Freckle (ephelis)
- 2) Racial melanosis
- 3) Nevus

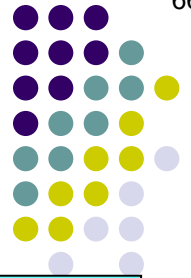
- Is a **hamartoma**
- Progress from **junctional** nevus → **compound** nevus → **subepithelial** nevus
- 1/2 contain **epithelial inclusion** cysts
- Goblet cells in cyst secrete **mucin** → lesion enlarges → false impression of **malignant transformation**
- Rapid enlargement during teens **common**, **not** worrisome for malignant change

Malignant

Melanoma of the conj

- Prevalence **1-2/million** whites
- Metastasize? **Yes**
- 70% arise from **PAM**, 5% from acquired (not congenital) nevi, 25% **de novo**
- Prognosis:
 - Better** than cutaneous
 - By location: Bulbar > nonbulbar
Limbal > nonlimbal
 - de novo < not de novo
- Management**:
 - Excisional** biopsy (no ↑ risk of mets)
 - Exenterate** if orbital
 - Check for **lymphadenopathy**

Pigmented Eyelid and Epibulbar Lesions



Ocular melanocytosis

- Pigmented lesion of **episclera** (not conj!)
- ↑ prevalence in **pigmented** peoples
- Malignant change occurs only in...**whites**
- 1/2 with related condition

Congenital nevocellular nevi of skin

- aka...**giant hairy nevus**
- Black** lesion of eyelid skin
- Malignant potential proportional to...**size**
- Consider excision if larger than...**20cm**

Benign

- 1) Freckle (ephelis)
- 2) Racial melanosis
- 3) Nevus

- Is a **hamartoma**
- Progress from **junctional** nevus → **compound** nevus → **subepithelial** nevus
- 1/2 contain **epithelial inclusion** cysts
- Goblet cells in cyst secrete **mucin** → lesion enlarges → false impression of **malignant transformation**
- Rapid enlargement during teens **common**, **not** worrisome for malignant change

Malignant

Melanoma of the conj

- Prevalence **1-2/million** whites
- Metastasize? **Yes**
- 70% arise from **PAM**, 5% from acquired (not congenital) nevi, 25% **de novo**
- Prognosis:
 - Better** than cutaneous
 - By location: Bulbar > nonbulbar
Limbal > nonlimbal
 - de novo < not de novo
- Management**:
 - Excisional** biopsy (no ↑ risk of mets)
 - Exenterate** if orbital
 - Check for **lymphadenopathy**

Pigmented Eyelid and Epibulbar Lesions



Ocular melanocytosis

- Pigmented lesion of **episclera** (not conj!)
- ↑ prevalence in **pigmented** peoples
- Malignant change occurs only in...**whites**
- 1/2 with **nevus of Ota**

Congenital nevocellular nevi of skin

- aka...**giant hairy nevus**
- Black** lesion of eyelid skin
- Malignant potential proportional to...**size**
- Consider excision if larger than...**20cm**

Benign

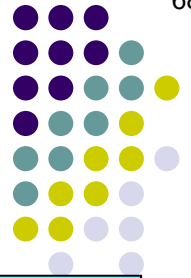
- 1) **Freckle (ephelis)**
- 2) **Racial melanosis**
- 3) **Nevus**

- Is a **hamartoma**
- Progress from **junctional** nevus → **compound** nevus → **subepithelial** nevus
- 1/2 contain **epithelial inclusion** cysts
- Goblet cells in cyst secrete **mucin** → lesion enlarges → false impression of **malignant transformation**
- Rapid enlargement during teens **common**, **not** worrisome for malignant change

Malignant

Melanoma of the conj

- Prevalence **1-2/million** whites
- Metastasize? **Yes**
- 70% arise from **PAM**, 5% from acquired (not congenital) nevi, 25% **de novo**
- Prognosis:
 - Better** than cutaneous
 - By location: Bulbar > nonbulbar
Limbal > nonlimbal
 - de novo < not de novo
- Management:**
 - Excisional** biopsy (no ↑ risk of mets)
 - Exenterate** if orbital
 - Check for **lymphadenopathy**



Pigmented Eyelid and Epibulbar Lesions

Ocular melanocytosis

- Pigmented lesion of **episclera** (not conj!)
- ↑ prevalence in pigmented peoples
- Malignant change occurs only in...whites
- 1/2 with **nevus of Ota**

Congenital nevocellular nevi of skin

- aka...**giant hairy nevus**
- Black** lesion of eyelid skin
- Malignant potential proportional to...size
- Consider excision if larger than...20cm

What is nevus of Ota?

Benign

- 1) Freckle (ephelis)
- 2) Racial melanosis
- 3) Nevus

- Is a hamartoma
- Progress from *junctional* nevus → *compound* nevus → *subepithelial* nevus
- 1/2 contain epithelial inclusion cysts
- Goblet cells in cyst secrete mucin → lesion enlarges → false impression of malignant transformation
- Rapid enlargement during teens common, not worrisome for malignant change

Melanoma of the conj

- Prevalence 1-2/million whites
- Metastasize? Yes
- 70% arise from PAM, 5% from acquired (not congenital) nevi, 25% de novo
- Prognosis:
 - Better than cutaneous
 - By location: Bulbar > nonbulbar
Limbal > nonlimbal
 - de novo < not de novo
- Management:*
 - Excisional biopsy (no ↑ risk of mets)
 - Exenterate if orbital
 - Check for lymphadenopathy

Pigmented Eyelid and Epibulbar Lesions



Ocular melanocytosis

- Pigmented lesion of **episclera** (not conj!)
- ↑ prevalence in pigmented peoples
- Malignant change occurs only in...whites
- 1/2 with **nevus of Ota**

Congenital nevocellular nevi of skin

- aka...**giant hairy nevus**
- Black** lesion of eyelid skin
- Malignant potential proportional to...size
- Consider excision if larger than...20cm

What is nevus of Ota?

Ocular melanocytosis + hyperpigmentation of the periorbital skin

Benign

- 1) Freckle (ephelis)
- 2) Racial melanosis
- 3) Nevus

- Is a hamartoma
- Progress from *junctional* nevus → *compound* nevus → *subepithelial* nevus
- 1/2 contain epithelial inclusion cysts
- Goblet cells in cyst secrete mucin → lesion enlarges → false impression of malignant transformation
- Rapid enlargement during teens common, not worrisome for malignant change

Melanoma of the conj

- Prevalence 1-2/million whites
- Metastasize? Yes
- 70% arise from PAM, 5% from acquired (not congenital) nevi, 25% de novo
- Prognosis:
 - Better than cutaneous
 - By location: Bulbar > nonbulbar
Limbal > nonlimbal
 - de novo < not de novo
- Management:*
 - Excisional biopsy (no ↑ risk of mets)
 - Exenterate if orbital
 - Check for lymphadenopathy

Pigmented Eyelid and Epibulbar Lesions



Ocular melanocytosis

- Pigmented lesion of **episclera** (not conj!)
- ↑ prevalence in pigmented peoples
- Malignant change occurs only in...whites
- 1/2 with **nevus of Ota**

Congenital nevocellular nevi of skin

- aka...**giant hairy nevus**
- Black** lesion of eyelid skin
- Malignant potential proportional to...size
- Consider excision if larger than...20cm

What is nevus of Ota?

Ocular melanocytosis + hyperpigmentation of the periorbital skin

What racial group is most likely to be affected?

Benign

- 1) Freckle (ephelis)
- 2) Racial melanosis
- 3) Nevus

- Is a hamartoma
- Progress from *junctional nevus* → *compound nevus* → *subepithelial nevus*
- 1/2 contain epithelial inclusion cysts
- Goblet cells in cyst secrete mucin → lesion enlarges → false impression of malignant transformation
- Rapid enlargement during teens common, not worrisome for malignant change

Melanoma of the conj

- Prevalence 1-2/million whites
- Metastasize? Yes
- 70% arise from PAM, 5% from acquired (not congenital) nevi, 25% de novo
- Prognosis:
 - Better than cutaneous
 - By location: Bulbar > nonbulbar
Limbal > nonlimbal
 - de novo < not de novo
- Management:*
 - Excisional biopsy (no ↑ risk of mets)
 - Exenterate if orbital
 - Check for lymphadenopathy

Pigmented Eyelid and Epibulbar Lesions



Ocular melanocytosis

- Pigmented lesion of **episclera** (not conj!)
- ↑ prevalence in pigmented peoples
- Malignant change occurs only in...whites
- 1/2 with **nevus of Ota**

Congenital nevocellular nevi of skin

- aka...**giant hairy nevus**
- Black** lesion of eyelid skin
- Malignant potential proportional to...size
- Consider excision if larger than...20cm

What is nevus of Ota?

Ocular melanocytosis + hyperpigmentation of the periorbital skin

What racial group is most likely to be affected?

Asians

Benign

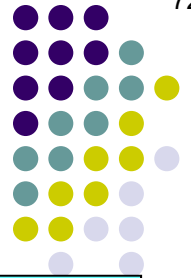
- 1) Freckle (ephelis)
- 2) Racial melanosis
- 3) Nevus

- Is a hamartoma
- Progress from *junctional nevus* → *compound nevus* → *subepithelial nevus*
- 1/2 contain epithelial inclusion cysts
- Goblet cells in cyst secrete mucin → lesion enlarges → false impression of malignant transformation
- Rapid enlargement during teens common, not worrisome for malignant change

Melanoma of the conj

- Prevalence 1-2/million whites
- Metastasize? Yes
- 70% arise from PAM, 5% from acquired (not congenital) nevi, 25% de novo
- Prognosis:
 - Better than cutaneous
 - By location: Bulbar > nonbulbar
Limbal > nonlimbal
 - de novo < not de novo
- Management:*
 - Excisional biopsy (no ↑ risk of mets)
 - Exenterate if orbital
 - Check for lymphadenopathy

Pigmented Eyelid and Epibulbar Lesions



Ocular melanocytosis

- Pigmented lesion of **episclera** (not conj!)
- ↑ prevalence in **pigmented** peoples
- Malignant change occurs only in...**whites**
- 1/2 with **nevus of Ota**
- 10% will develop secondary.. abb.

Congenital nevocellular nevi of skin

- aka...**giant hairy nevus**
- Black** lesion of eyelid skin
- Malignant potential proportional to...**size**
- Consider excision if larger than...**20cm**

Benign

- 1) Freckle (ephelis)
- 2) Racial melanosis
- 3) Nevus

- Is a **hamartoma**
- Progress from **junctional** nevus → **compound** nevus → **subepithelial** nevus
- 1/2 contain **epithelial inclusion** cysts
- Goblet cells in cyst secrete **mucin** → lesion enlarges → false impression of **malignant transformation**
- Rapid enlargement during teens **common**, **not** worrisome for malignant change

Malignant

Melanoma of the conj

- Prevalence **1-2/million** whites
- Metastasize? **Yes**
- 70% arise from **PAM**, 5% from acquired (not congenital) nevi, 25% **de novo**
- Prognosis:
 - Better** than cutaneous
 - By location: Bulbar > nonbulbar
Limbal > nonlimbal
 - de novo < not de novo
- Management**:
 - Excisional** biopsy (no ↑ risk of mets)
 - Exenterate** if orbital
 - Check for **lymphadenopathy**

Pigmented Eyelid and Epibulbar Lesions



Ocular melanocytosis

- Pigmented lesion of **episclera** (not conj!)
- ↑ prevalence in **pigmented** peoples
- Malignant change occurs only in...**whites**
- 1/2 with **nevus of Ota**
- 10% will develop secondary...**OAG**

Congenital nevocellular nevi of skin

- aka...**giant hairy nevus**
- Black** lesion of eyelid skin
- Malignant potential proportional to...**size**
- Consider excision if larger than...**20cm**

Benign

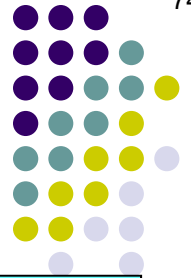
- 1) **Freckle (ephelis)**
- 2) **Racial melanosis**
- 3) **Nevus**

- Is a **hamartoma**
- Progress from **junctional** nevus → **compound** nevus → **subepithelial** nevus
- 1/2 contain **epithelial inclusion** cysts
- Goblet cells in cyst secrete **mucin** → lesion enlarges → false impression of **malignant transformation**
- Rapid enlargement during teens **common**, **not** worrisome for malignant change

Malignant

Melanoma of the conj

- Prevalence **1-2/million** whites
- Metastasize? **Yes**
- 70% arise from **PAM**, 5% from acquired (not congenital) nevi, 25% **de novo**
- Prognosis:
 - Better** than cutaneous
 - By location: Bulbar > nonbulbar
Limbal > nonlimbal
 - de novo < not de novo
- Management**:
 - Excisional** biopsy (no ↑ risk of mets)
 - Exenterate** if orbital
 - Check for **lymphadenopathy**



Pigmented Eyelid and Epibulbar Lesions

Ocular melanocytosis

- Pigmented lesion of **episclera** (not conj!)
- ↑ prevalence in **pigmented** peoples
- Malignant change occurs only in...**whites**
- 1/2 with **nevus of Ota**
- 10% will develop secondary...**OAG**
- Lifetime risk for melanoma of uvea, conj, skin, orbit: 1 in # (unaffected baseline risk is 1 in 13,000)

Congenital nevocellular nevi of skin

- aka...**giant hairy nevus**
- Black** lesion of eyelid skin
- Malignant potential proportional to...**size**
- Consider excision if larger than...**20cm**

Benign

- 1) Freckle (ephelis)
- 2) Racial melanosis
- 3) Nevus

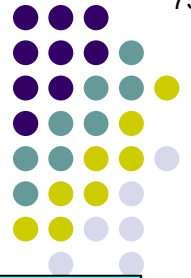
- Is a **hamartoma**
- Progress from **junctional** nevus → **compound** nevus → **subepithelial** nevus
- 1/2 contain **epithelial inclusion** cysts
- Goblet cells in cyst secrete **mucin** → lesion enlarges → false impression of **malignant transformation**
- Rapid enlargement during teens **common**, **not** worrisome for malignant change

Malignant

Melanoma of the conj

- Prevalence **1-2/million** whites
- Metastasize? **Yes**
- 70% arise from **PAM**, 5% from acquired (not congenital) nevi, 25% **de novo**
- Prognosis:
 - Better** than cutaneous
 - By location: Bulbar > nonbulbar
Limbal > nonlimbal
 - de novo < not de novo
- Management**:
 - Excisional** biopsy (no ↑ risk of mets)
 - Exenterate** if orbital
 - Check for **lymphadenopathy**

Pigmented Eyelid and Epibulbar Lesions



Ocular melanocytosis

- Pigmented lesion of **episclera** (not conj!)
- ↑ prevalence in **pigmented** peoples
- Malignant change occurs only in...**whites**
- 1/2 with **nevus of Ota**
- 10% will develop secondary...**OAG**
- Lifetime risk for melanoma of uvea, conj, skin, orbit: 1 in **400** (unaffected baseline risk is 1 in 13,000)

Congenital nevocellular nevi of skin

- aka...**giant hairy nevus**
- Black** lesion of eyelid skin
- Malignant potential proportional to...**size**
- Consider excision if larger than...**20cm**

Benign

- 1) **Freckle (ephelis)**
- 2) **Racial melanosis**
- 3) **Nevus**

- Is a **hamartoma**
- Progress from **junctional** nevus → **compound** nevus → **subepithelial** nevus
- 1/2 contain **epithelial inclusion** cysts
- Goblet cells in cyst secrete **mucin** → lesion enlarges → false impression of **malignant transformation**
- Rapid enlargement during teens **common**, **not** worrisome for malignant change

Malignant

Melanoma of the conj

- Prevalence **1-2/million** whites
- Metastasize? **Yes**
- 70% arise from **PAM**, 5% from acquired (not congenital) nevi, 25% **de novo**
- Prognosis:
 - Better** than cutaneous
 - By location: Bulbar > nonbulbar
Limbal > nonlimbal
 - de novo < not de novo
- Management:**
 - Excisional** biopsy (no ↑ risk of mets)
 - Exenterate** if orbital
 - Check for **lymphadenopathy**

Pigmented Eyelid and Epibulbar Lesions



Ocular melanocytosis

- Pigmented lesion of **episclera** (not conj!)
- ↑ prevalence in **pigmented** peoples
- Malignant change occurs only in...**whites**
- 1/2 with **nevus of Ota**
- 10% will develop secondary...**OAG**
- Lifetime risk for melanoma of uvea, conj, skin, orbit: 1 in **400** (unaffected baseline risk is 1 in 13,000)
- Usually uni- v bilateral

Congenital nevocellular nevi of skin

- aka...**giant hairy nevus**
- Black** lesion of eyelid skin
- Malignant potential proportional to...**size**
- Consider excision if larger than...**20cm**

Benign

- 1) Freckle (ephelis)
- 2) Racial melanosis
- 3) Nevus

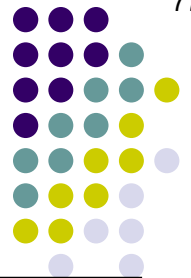
- Is a **hamartoma**
- Progress from **junctional** nevus → **compound** nevus → **subepithelial** nevus
- 1/2 contain **epithelial inclusion** cysts
- Goblet cells in cyst secrete **mucin** → lesion enlarges → false impression of **malignant transformation**
- Rapid enlargement during teens **common**, **not** worrisome for malignant change

Malignant

Melanoma of the conj

- Prevalence **1-2/million** whites
- Metastasize? **Yes**
- 70% arise from **PAM**, 5% from acquired (not congenital) nevi, 25% **de novo**
- Prognosis:
 - Better** than cutaneous
 - By location: Bulbar > nonbulbar
Limbal > nonlimbal
 - de novo < not de novo
- Management**:
 - Excisional** biopsy (no ↑ risk of mets)
 - Exenterate** if orbital
 - Check for **lymphadenopathy**

Pigmented Eyelid and Epibulbar Lesions



Ocular melanocytosis

- Pigmented lesion of **episclera** (not conj!)
- ↑ prevalence in **pigmented** peoples
- Malignant change occurs only in...**whites**
- 1/2 with **nevus of Ota**
- 10% will develop secondary...**OAG**
- Lifetime risk for melanoma of uvea, conj, skin, orbit: 1 in **400** (unaffected baseline risk is 1 in 13,000)
- Usually **unilateral**

Congenital nevocellular nevi of skin

- aka...**giant hairy nevus**
- Black** lesion of eyelid skin
- Malignant potential proportional to...**size**
- Consider excision if larger than...**20cm**

Benign

- 1) **Freckle (ephelis)**
- 2) **Racial melanosis**
- 3) **Nevus**

- Is a **hamartoma**
- Progress from **junctional** nevus → **compound** nevus → **subepithelial** nevus
- 1/2 contain **epithelial inclusion** cysts
- Goblet cells in cyst secrete **mucin** → lesion enlarges → false impression of **malignant transformation**
- Rapid enlargement during teens **common**, **not** worrisome for malignant change

Malignant

Melanoma of the conj

- Prevalence **1-2/million** whites
- Metastasize? **Yes**
- 70% arise from **PAM**, 5% from acquired (not congenital) nevi, 25% **de novo**
- Prognosis:
 - Better** than cutaneous
 - By location: Bulbar > nonbulbar
Limbal > nonlimbal
 - de novo < not de novo
- Management:**
 - Excisional** biopsy (no ↑ risk of mets)
 - Exenterate** if orbital
 - Check for **lymphadenopathy**