

VISION

The Department of Otorhinolaryngology shall be an internationally recognized center of excellence in the field of Otorhinolaryngology and Head and Neck Surgery

MISSION

The health needs of the Filipino shall be its prime consideration.

It shall provide excellence and leadership in the different aspects in Otolaryngology – Head and Neck Surgery by teaching, providing exemplary clinical practice and dynamically pursuing relevant researches beneficial to the community in an environment guided by moral, ethical and spiritual values.

General Information

- IP
- 76/F
- Married
- 7th day Adventist
- Barangay San Juan, Quezon



Chief Complaint

Left postauricular mass

6 months PTC (April, 2019)

- Patient noted the presence of a hyperpigmented flat lesion on the back of her left ear. The lesion measured about 1x1cm at that time
- No pain, bleeding and other associated symptoms were noted

In the interim,

- Patient noticed that the lesion gradually grew in size and became elevated and nodular
- No associated symptoms
- Patient would boil malunggay leaves and place it on the lesion without decrease in size of lesion



2 months PTC (August, 2019)

Patient decided to seek consult at PGH OPD

An wedge biopsy was done which revealed basal cell carcinoma,
 nodular type



Interim

- Patient has been following up at the PGH ORL OPD
- Gradual increase in the size of the mass was noted
- Occasional bleeding noted when patient cleans the lesion with hydrogen peroxide

Currently

Patient is admitted at PGH and is desirous of surgery

Past Medical History

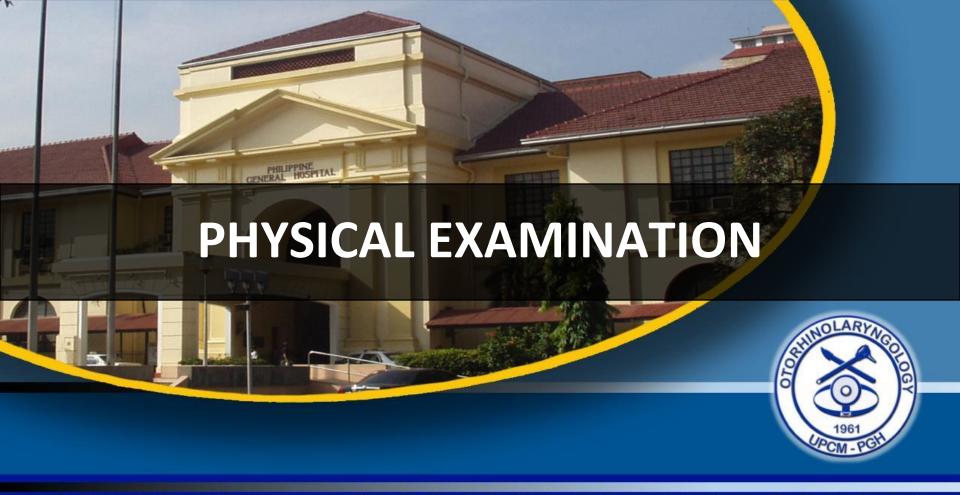
- No hypertension, diabetes, bronchial asthma,
- No food or medicine allergies
- No previous hospitalizations or surgeries

Family History

- No hypertension, diabetes, tuberculosis
- No cancer
- No history of similar disease

Personal and Social History

- Non-smoker
- Non-alcoholic beverage drinker
- No illicit-drug use
- (+) prolonged sun exposure due to gardening



SYSTEMIC PHYSICAL EXAM

| General | Awake, alert, cooperative, not in cardiorespiratory distress |
|-------------|---|
| Vital signs | BP 120/70, HR 76, T 36.8, RR 18, O2 99% Height: 149cm Weight: 49kg |
| Lungs | Equal chest expansion, clear breath sounds |
| Chest | Adynamic precordium |
| GI | Soft flat abdomen, normoactive bowel sounds, no masses and no tenderness upon palpation |
| Extremities | Full equal pulses, pink nail beds, capillary refill time less than 2 seconds |
| Neurologic | (-) cranial nerve, motor, and sensory deficits, normal reflexes |

OTOLOGIC EXAM





No gross deformities on inspection
Patent External auditory canal, bilateral
Intact tympanic membrane with cone of light, bilateral
No discharge or bleeding

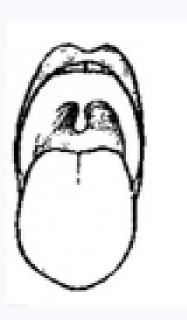
ANTERIOR RHINOSCOPY EXAM



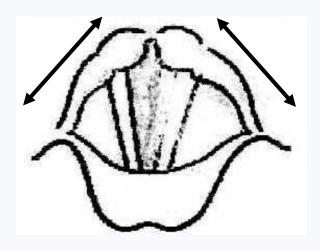
- Septum midline
- Non-congested turbinates
- No masses seen
- No discharge / bleeding

ORAL CAVITY EXAM

- Patient is completely edentulous
- Uvula and tongue were midline
- No lesions were noted intraorally



LARYNGOSCOPY



- Fully mobile vocal cords
- No masses noted

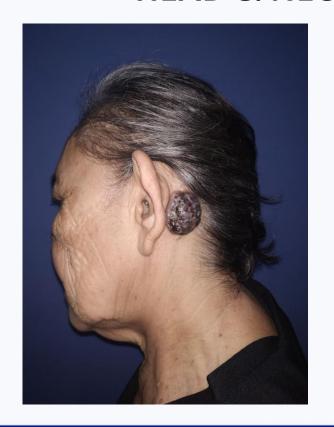
HEAD & NECK EXAMINATION



- Fitzpatrick skin type V
- Glogau type IV

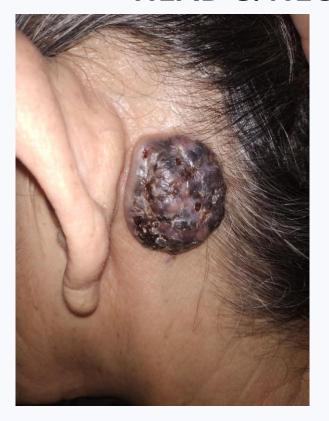


HEAD & NECK EXAMINATION



- (+) 4 x 2.5cm
 hyperpigmented, nodular
 mass on left postauricular
 area (+) crusting
- (-) discharge or bleeding from the lesion
- (+) CLAD firm movable on level V ~1x1

HEAD & NECK EXAMINATION



- (+) telangiectasia
- Pearly border
- Distance from periphery of lesion to posterior auricular sulcus – 0.5cm
- Lesion is hairline involving



- 76/F
- 6 month history of a gradually enlarging hyperpigmented, nodular mass on the left postauricular area with occasional bleeding on manipulation



Basal cell carcinoma, nodular type stage III T2N1M0

Differential Diagnosis

Melanoma

Squamous Cell Carcinoma

Dermal Nevi

Differential Diagnosis

| | Rule-in | Rule-out | | |
|-------------------------|--|--|--|--|
| Melanoma | Pigmented lesion with asymmetric configuration, irregular boarders and nonuniform color | (+) Metastasis | | |
| Squamous Cell Carcinoma | Larger lesions with central ulceration can appear cup-shaped, these can resemble squamous cell carcinoma | (+) Metastasis | | |
| Dermal Nevi | Circumscribed, chronic lesion Found usually on sun exposed areas | Not invasive and locally destructive even pigmentation and smooth borders | | |



DEPARTMENT OF OTORHINOLARYNGOLOGY PHILIPPINE GENERAL HOSPITAL

DIAGNOSTICS

| TEST | RATIONALE | | | |
|--------------------------|------------------------------------|--|--|--|
| Biopsy | To determine histopathology | | | |
| CT Scan (Head & Neck) | To determine extent of involvement | | | |

Diagnostics

PGH FORM NO. P-360004



PHILIPPINE GENERAL HOSPITAL
The National University Hospital
University of the Philippines Mitrala
DEPARTMENT OF LABORAT ORIES
Sorgical Pathology Section
TAPT ASPITES, MANUAL
PHIC. Accurated Health Gara Provider
100 90012000 Cardiol

Personal Library

SURGICAL PATHOLOGY REPORT

| PRUDENTE | FIRST LUISA | NAME | MI AVELLANO | AGE 76 | SEX | SP NUMBER 19 OPD 3716 | |
|---|---------------------|-----------------------------|------------------|-----------|------------------------------|--------------------------|--|
| ATTENDING PHYGICIAN DR. JERIC L. ARBIZO | OTOPHINOLARYNGOLOGY | | WARD/ROOM OPD | | CASE NUMBER 4684952 | | |
| SPECIMEN LEFT POST-AURICULAR MASS | | DATE RECEIVED 08/06/2019 | | | DATE COMPLETED 08/08/2019 | | |

FINAL HISTOPATHOLOGIC DIAGNOSIS

(EAR, LEFT), WEDGE BIOPSY:

BASAL CELL CARCINOMA, NODULAR TYPE.

NEGATIVE FOR TUMOR, SURGICAL MARGIN.

NEAREST PERIPHERAL MARGIN IS 3 MILLIMETERS.

GROSS/MICROSCOPIC DESCRIPTIONS

The specimen labelled "posterior auricular mass" consists of a cream-tan to tan-gray, soft, irregular tissue fragment measuring $0.8 \times 0.5 \times 0.3$ cm Block all (1).

Gross examination, microscopic evaluation and sign-out done by Mae Therese W. Villasis, MD.

JOSE LOUIE D. REMOTIGUE, M.D.

REPORTED BY

MARIA CECILIA F. LIM, M.D.



DEPARTMENT OF OTORHINOLARYNGOLOGY PHILIPPINE GENERAL HOSPITAL

Basal Cell Carcinoma

- Slow growing epithelial malignancy from the basal layer of the epidermis and its appendages
- Rarely metastasizes
- Invasive and locally destructive
- Mutations in TP53 and other cell cycle control genes



Statistics on Basal Cell Carcinoma

- Basal cell carcinoma (BCC) is the most common skin malignancy with estimated annual incidences of 1 million, over 500,000 and 190,000 in the USA, Europe and Australia, respectively.
- More than 60% of all skin cancers in the Philippines are basal cell carcinoma

Clinical Presentation

Nodular

- 80% of cases
- Pearly or translucent quality, telangiectactic vessel is frequently seen within the papule
- Periphery is more raised than the middle
- Ulceration is frequent

Clinical Presentation

Superficial

- 15% of cases
- Most commonly occur on the trunk
- Scaly, non firm macules, patches or thin plaques
- Atrophic center, rimmed periphery with fine translucent papules

Clinical Presentation

Morpheaform/Infiltrative

- 5-10% of cases
- Smooth, flesh colored light pink papules or plaques that are frequently atrophic
- Firm or indurated with ill deformed borders

Risk Factors

- Ultraviolet exposure
 - Sun
 - Tanning beds
 - Phototherapy
 - Photosenthesitizing agent
- Chronic arsenic exposure
- Ionizing radiation
- Phenotypic traits

Pathology

Nodular

- Discrete nests of basaloid cells in the dermis.
- Peripheral palisading of the malignant keratinocytes and a mucinous-surrounding tumor stroma.
- A separation or "cleft," between the tumor and the dermis,

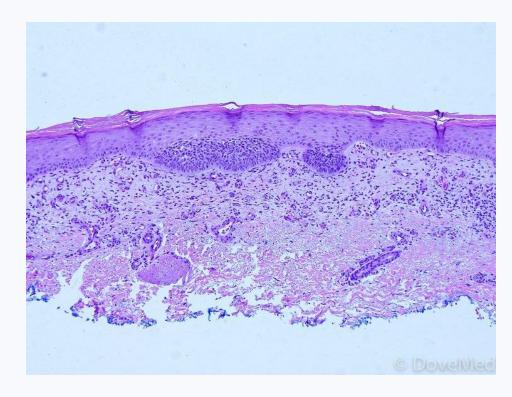




Pathology

Superficial

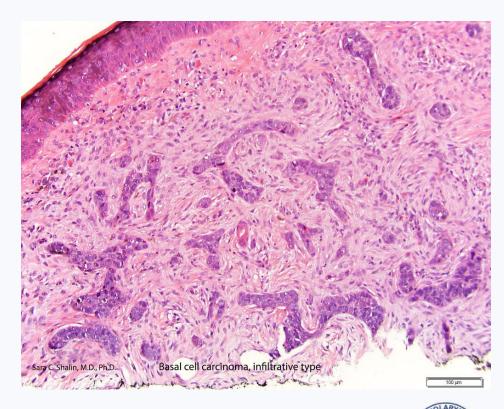
 Foci of malignant, basaloid, palisading tumors "budding" off the epidermis



Pathology

Infiltrative

 Thin cords of basaloid tumor cells penetrating the surrounding collagen, which may appear sclerotic.



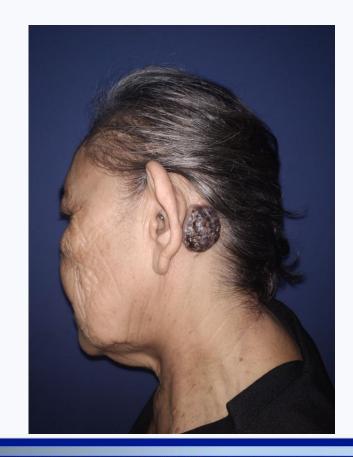
Patient Factors

- LP
- 76/F
- Good functional status (ECOG 1)

ECOG PERFORMANCE STATUS*

| Grade | ECOG |
|-------|---|
| 0 | Fully active, able to carry on all pre-disease performance without restriction |
| 1 | Restricted in physically strenuous activity but ambulatory and able to carry out work of a light or sedentary nature, e.g., light house work, office work |
| 2 | $Ambulatory\ and\ capable\ of\ all\ selfcare\ but\ unable\ to\ carry\ out\ any\ work\ activities.\ Up\ and\ about\ more\ than\ 50\%$ of waking hours |
| 3 | Capable of only limited selfcare, confined to bed or chair more than 50% of waking hours |
| 4 | Completely disabled. Cannot carry on any selfcare. Totally confined to bed or chair |
| 5 | Dead |





Disease Factors

Primary tumoi

- Primary tumor ~3 cm at the postauricular area
- No mastoid involvement

Nodal Status

 Suspicious node at level V

Metastasis

 No clinical evidence of distant metastasis

T2 N₁ cM₀

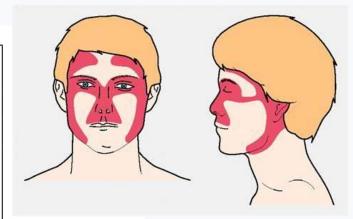
Treatment Goals:

- Intent of treatment: curative
- Treatment goals
 - Oncologic clearance
 - Mitigate recurrence
 - Acceptable cosmesis

Treatment of primary tumor

RISK FACTORS FOR RECURRENCE

| H&P | Low Risk | <u>High Risk</u> |
|------------------------|-----------------------------------|--|
| Location/size | Area L <20 mm | Area L ≥20 mm |
| | Area M <10 mm ¹ | Area M ≥10 mm |
| | | Area H ³ |
| Borders | Well defined | Poorly defined |
| Primary vs. recurrent | Primary | Recurrent |
| Immunosuppression | (-) | (+) |
| Site of prior RT | (-) | (+) |
| Pathology ⁵ | | |
| Subtype | Nodular, superficial ² | Aggressive growth pattern ⁴ |
| Perineural involvement | (-) | (+) |
| | | |

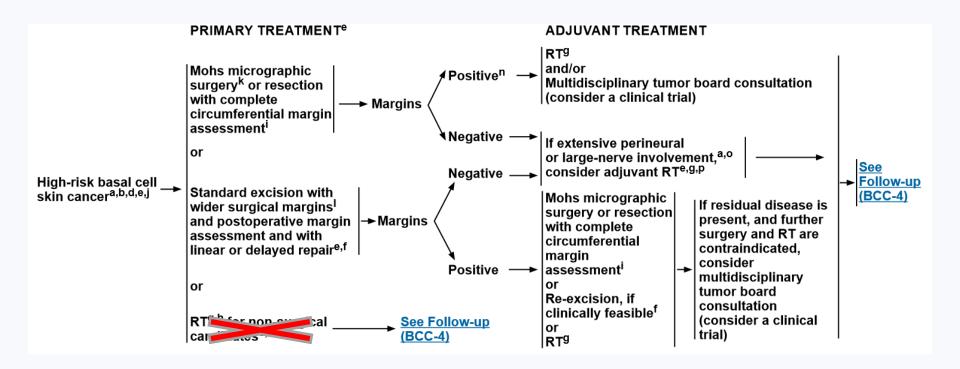


Area H = "mask areas" of face (central face, eyelids, eyebrows, periorbital, nose, lips [cutaneous and vermilion], chin, mandible, preauricular and postauricular skin/sulci, temple, ear), genitalia, hands, and feet.

Area M = cheeks, forehead, scalp, neck, and pretibia.

Area L = trunk and extremities (excluding hands, nail units, pretibia, ankles, feet).





Treatment of primary tumor

| Mohs micrographic surgery | Standard surgical excision |
|---|--|
| Allows circumferential intraoperative assessment of 100% of margins | Pathologists will only report margin status from requested areas of the specimen on FS |
| More time-consuming | Can be performed relatively quicker |



Skin cancers often have roots that extend beyond the visible tumor.



STEP 1: The Mohs surgeon anesthetizes the area and surgically removes the visible tumor.



STEP 2: The skin specimen is divided into sections and mapped to the surgical site.



STEP 3: After the lab processes the tissue, the Mohs surgeon microscopically examines its entire undersurface and edges.



STEP 4: If cancer cells remain, the affected tissue will be precisely removed from the surgical site. Multiple stages may be required to remove the cancer roots completely.



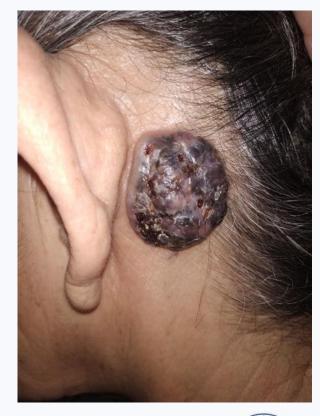
The process stops when there is no evidence of residual cancer. The Mohs surgeon will then discuss options for reconstruction of the surgical defect.



Treatment of primary tumor

Due to the wide variability of clinical characteristics that may define a high-risk tumor, it is not feasible to recommend a defined margin for standard excision of high-risk BCC. Keen awareness of the subclinical extension of BCC is advised when selecting a treatment modality without complete margin assessment for a high-risk tumor. These margins may need to be modified based on tumor- or patient-specific factors.

- Standard 1.5-2 cm margins may be excessive
- A 1cm circumferential margin may be preferable to preserve as much auricular framework as possible and obviate the need for reconstruction
- More frozen section determinations on the anterior portion (including conchal cartilage involvement)



Treatment of the neck

- Metastasis (nodal and distant) is exceedingly rare (<0.1%)
- Theoretically, a positive node would entail neck dissection of LN levels II-V;
 which may lengthen OR time

 Sentinel node biopsy is rarely done for basal cell carcinomas and has only been described in case reports among high-risk lesions.

Harwood M et al. Metastatic basal cell carcinoma diagnosed by sentinel lymph node biopsy. J Amer Acad Derm 2005; 474-477.

Treatment of the neck

Sonogram-guided fine needle biopsy of the node preoperatively

Alternatively: Intraoperative frozen section

Reconstruction

Rotation-advancement flap





Reconstruction

Split-thickness skin graft on temporalis muscle bed





Plan

- Preoperative sonogram-guided FNA of level V node
- Excision of tumor with 1 cm margins and intraoperative frozen section for margins
- Rotation-advancement flap reconstruction

