UNUSUAL BONE AND SOFT TISSUE LESIONS

Department of Surgical Pathology Barnes Hospital

October 6, 1955

CASE 1

D.D., S.P. 55-4847

The patient, a 27 year old male, noted a tender swelling in the buttock ten days before operation. In June 1951, as a paratrooper, he suffered a bruising injury to the left hip. On July 6, 1955, at exploration a tumor was found in the region of the left acetabulum which one surgeon thought to be related to periosteum. Tumor appeared to be partially encapsulated and measured 2.5 x 2.0 x 1.0 cm. The surface was moist, soft, and glistening.

CASE 2

M.H., S.P. 55-2830

The patient, a 39 year old female, had a tumor of five years duration that began to enlarge gradually. It measured about 5 cm. At the time of operation a pesudo-encapsulated mass was found which eroded both the tibia and talus. The surgeon thought the tumor penetrated the marrow space and was invading muscle.

CASE 3

M.T., S.P. 55-3090

This 28 year old Negro woman was seen in 1950 because of a 10 x 10 x 6 cm. soft tissue mass over the upper third of her arm. This mass had appeared six months previously following minor trauma. Biopsy and wide local excision with skin graft were done with a diagnosis of desmoid (low grade fibrosarcoma). Tumor was present at one edge of the specimen. Three years later (1953) a mass was noted just above the site of the first excision, and wide local excision was again done after biopsy. In April 1955 whe was seen with a large mass in the soft tissue over the right shoulder posteriorly. This had been present for about nine months. A no time were there any demonstrable changes in the bones on x-ray examination.

CASE 4

R.H., S.P. 55-2723

This 32 year old woman went to her physician for a routine pelvic examination, and during the course of this examination a large bony mass was found attached to the inferior ramus of the pubis and ischium.

CASE 5

L.O., S.P. 55-5583

This 63 year old, white, married female developed a pain in low back 5 years ago. She played in an orchestra and was able to continue with her activities up until about 18 months ago at which time she had to discontinue her activities because of the low back, hip, and knee pain. At this same time she noted she was losing a considerable amount of weight, estimated by her to be 100 pounds until the time she was admitted to the hospital. At this time her friends noticed she appeared shorter.

Case 5 (cont'd) She was unable to use her teeth because she felt that her jaws were getting larger. She was confined to her home until November, at which time because of such severe back and hip pains she went to see her local osteopath who prescribed cortisone and ACTH simultaneously without relief. By this time she was mable to get around the house only with crutches, and she was up only for her meals. Two months before admission she bumped her left forearm and because it was painful and swollen she went to see her osteopath again, who took x-rays and told her he could not see anything, but if it continued she should return. On July 15 she went to see one of our local orthopedic surgeons who recommended admission to the hospital. At this time the patient was unable to walk without the aid of crutches, and her main complaints were severe low back pain, bilateral hip and knee pain, a pain in her fingers, and nocturia (4 to 5 times), and drgeney: On physical examination she was a very short lady with a rather large head and prominent forehead. She had a prominent kyphosis and was bowlegged. She had limitation of motion in her hips and knees and shoulders. On abdominal examination a mass was felt 4 to 5 cm. below the costal margin. Lab work at this time showed calcium 13.2, phosphorus 2.7, alkaling phosphatase 11.6 Bodensky units, NPN 33. Retrograde pyelograms were negative. An 11 cm. mass was seen on the flat plate of the abdomen which was in the region of the right kidney. The next day she had a biopsy of the lesion in the left ulna.

CASE 6

K.S., S.P. 50-4921 & 55-2229

The patient, a nine year old girl, was seen in March 1955 because of pain in her left leg for several weeks. Therewas no history of trauma. X-rays disclosed rather extensive involvement of the shaft of the tibia.

CASE 7

S.P. 55-3870

This 58 year old man sustained fracures of the left tibia and several ribs ten weeks prior to admission. X-rays of the pelvis showed diffuse sclerotic changes over one hemipelvis. A biopsy of the ilium near the acetabulum was done.

CASE 8

T.C., S.P. 55-2252

The patient, a 32 year old white man, had a vague intermittent aching in the region of the left hip for several years. This pain was aggregated by motion of the hip. There was no local swelling. A X-rays disclosed an osteolytic lesion in the trochanteric region of the left femur. C lcium, phosphorus, and alkaline phosphatase determinations were normal.

CASE 9

R.W., S.P. 55-5193

The patient, a 45 year old male, sustained a spiral fracutre of the femur on 6/23/55. He was swinging at a baseball and missed. At operation there was a cystic lesion present which contained firm, slightly granular, brownish-red to gray tissue. The apparent tumor tissue herniated into the soft tissue.

SEM. 91

CASE

Ago

27 WASHINGTON UNIVERSITY MEDICAL SCHOOL

para, Dorald Cran Dr. J. G. Hoinbourn Enlan Hospital Chara Hames, Indiana

LABORATORY OF SURGICAL PATHOLOGY

more Himse, Indiana presists coquest of Dr. H. V. Dopp, Jr.

Surg. Path. No. 55 0847

Hosp. No. 0.8. 53460

tismo, left buttock, excision - Myositis

Date

7-6-55

. Dagnosis Not stated

Hospital

- story:

Color . ?

Son Male

Thata o

- ma Site of Symptoms:

patient noticed a tender swelling in his left buttock approximately ten days

before meration. He was a paratrooper in the Korean was and in June 1951 sustained a beuising injury to his left hip. X-rays revealed no bone changes. At operation a tumor is found in the region of the left acetabulum which one surgeon believed to be Related to periosteum. The other surgeon could not be sure that the tumor was attached to bone. 1552-A represents sections from a 2.5 x 2.0 x 1.0 cm.

Tumorum in appeared to be partially encapsulated. The cut surface was solid, mails, white and glistening. 1552-B represents bits of tissue that was Submitted with the main tumor. Not all of the tumor was removed at surgery.

Gross Pathology: The specimen consists of two slides, labeled 1552-A and 1552-B, and wet tissue sent in by Dr. J. G. Weinbaum, Union Hospital, Terre Haute, Indiana, at the request of Dr. H. W. Bopp, Jr.

Microscopic Pathology: In spite of the cellularity and aggressive appearance this tumor we believe it is a benign lesion and can be classified as myositis ossificans. The principal tunor mass is composed of intermixing strands and whorls of spindle or stellate hyperchromatic stronal cells. In many ill-dering foci the arrangement is looser and the cells appear to be forming cartilage or osteoid. Mitoses are seen occasionally. Sections from the periphery discle formation of bony trabeculae and adult cartilage. The bone formation is orderly and the trabeculae are well oriented. It is principally the appearance of the bone formation and out past experience with several similar cases that make us consider this a benign lesion. We suspect that most of this process ! secondary to trauma and periosteal reaction with formation of a mass. We saw another case similar to this in which only bloosy was done, and five years late the patient was well. It should also be remembered that if a patient devel a sarcona of this area, chances of cure by any surgery, even hemipelvectory, is practically zero.

Diagnosis: Soft tissue, left buttock, excision - Myositis ossificens

Louren V. Ackerman, M.B.

Bynen, Henry C. Red Hardital St. Intio. No.

39 WASHINGTON UNIVERSITY MEDICAL SCHOOL

LABORATORY OF SURGICAL PATHOLOGY

Surg. Path. No. 55 2830

Hosp. No. 0.5,61160

ter tisque, entie, occision - Giant cell tunor, tendon sheath (Fibrous monthoma)

Date 7-15-55

. Diagnosis

20

220

agnosis

Hospital

Age

-tient's address: 8436 Halls Ferry Road, St. Louis 15, Mo.

History: Color ? Sex Female

and Site of Symptoms:

Slid s of a tumor of the left ankle. History dates back five years, during which time the tumor appeared to enlarge gradually. There was no pain unless offer traumatization. At operation a pseudo-encapsulated tumor was found which excited both tibia and talus. Surgeon was of opinion that the tumor penetrated the mirrow space.

SA SA TE

Gross Pathology: The specimen consists of 2 slides labeled 2392, submitted by Dr. John D. Bauer, DePaul Hospital, St. Louis, Mo., stated to be from a turnor of the left ankle.

Microscopic Pathology: The sections show an extremely cellular lesion with variagated pattern. Many of the cells have a foamy cytoplasm, and there are \$160 collections of giant cells. Vascularity is prominent, giving an impression at times of pseudo-acini. Individual cells in some zones have rather filump vesicular nuclei. It is of interest that although highly cellular, mitotic activity is minimal. Hemosiderin pigment is also present, and there are somes which suggest that this tumor entered a joint space or bursa.

This is certainly a difficult lesion to interpret, but its location, duration, and microscopic pattern fit this into a group often designated as given cell tumor of tendon sheath or villinodular symovitis. As Jaffe has indicated these are probably variants of the same process. I doubt if this is a true neoplasm. I believe that it is perfectly benign and that no further treatment is inecessary. We have seen lesions of this type locally recur, but this does not mean they are malignant.

Diagnosis: Soft tissue, ankle, excision - Giant cell tunor, tendon sheath
(Fibrous manthons), extremely
(cellular

Lauren V. Acherman, II.D.

Age

WASHINGTON UNIVERSITY MEDICAL SCHOOL

33

Apporn, Margaret

A Easton, St. Louis, Missouri

gagnosis

masue, shoulder, excision-Desmoid

moulder, excision-Keloid

LABORATORY OF SURGICAL PATHOLOGY

Surn. Path. No. 55 3090

Hosp. No. 8-0-55-00227

Date

4-29-55

al Diagnosis Desmoid

Excision tumor of shoulder

Dr. Stein

Hospital

Barnard

" cal History:

Color

Sex

Female

'il State

M.

and Site of Symptoms: Excision desmoid mid-humeral region-1950. Excision persistant whold upper humeral region 1953. Large biopsy proven desmoid over post. shoulder on same de

Gross Pathology: The specimen is said to consist of a desmoid removed from the right posterior shoulder region. It is noted to be a large mass of somewhat rubbery, grey-white tumor tissue which is homogeneous in its consistency and low fall over one edge a piece of skin and a considerable amount of attached muscle. The specimen weighs 825 gms. and has a roughlyelliptical piece of skin over one Sunface measuring 21x6 cm. In the central portion of this skin running obliquely, there is a 7 cm. healing incisional scar with sutures in place. Parallel to this and along the distal border of the skin is a keloid measuring 1.5 cm. in width and 10 cm. in length. On cut section, the tumor mass appears in the shape of a flattened sphere of apparent muscle or soft tissue surrounding on all sides. There is a tail-like projection of muscle or soft tissue surrounding on all Sides There is a tail-like projection of muscle from one end of the specimen with a suture marking site of resection of the deltoid muscle on the humerus. At this point, there was suspicious looking material at operationand sections will be taken from here for adequacy. A separate bottle of tissue is also submitted := is noted to contain multiple chips of bone removed from the humerus at the site of excision of the insertion of the deltoid muscle. These chips of bone are placed in sequestrene for decalcification. The remainder of the specimen is placed IN formalin for fixation prior to taking further sections. Sections are taken 45 follows:

A - Section through the tumor including the deep surface of the tumor and adjacent muscle in the distal half deep surface mid line tumor.

B - Section taken through the biopsy tract in a plane perpendicular to the biopsy tract including skin and tumor throughout the depth of the biopsy inclaims.

C - Is a specimen to include skin with the attached keloid and a small amount of underlying soft tissue.

D - Is a section from what was thought to be tumor at the insertion of deltak muscle on the humerus. This site had been marked by silk suture. (On cuttin rumor at this region there was noted to be grey-white streak of fibrous appearing extending from the main body of the tumor out to this nodule).

Gross Pathology: (Cont'd)

of each air with designing

E - Includes tumor with underlying fascia (the deep fascia of the deltoid muse)
F - Is noted to consist of many bone fragments taken from the site of deltoid insertion on the humarus. These are submitted for decalcification in

sequestrene prior to further examination. Jar II (Cunningham)

Microscopic Pathology: Sections show a desmoid with invasion of muscle and fascia. The tumor shows essentially the same appearance as the two previous tumors from this patient's arm. There is noted to be tumor adjacent to the hor at the insertion of the deltoid muscle on the humerus, but no invasion of the bone itself is detected. The tumor appears elsewhere to have been adequately excised.

Diagnosis: Soft tissue, shoulder, excision - Desmoid Skin, shoulder, excision - Keloid

Lauren V. Ackerman, M.D.

MAY 25 12

Hoover, Rose : St. Vincent Hospital Santa Fe, Non Mendeo Diagnosis

Age 32 WASHINGTON UNIVERSITY MEDICAL SCHOOL

LABORATORY OF SURGICAL PATHOLOGY

Surg. Path. No. 55 2723

Hosp. No. C.S. Elide

Date 1-19-55

Bone, publis - Kanthofibrona

rical Diagnosis Hot stated

eration

perator

Hospital

acal History:

Color ?

Sex Female

wital State Danieled

ration and Site of Symptoms:

The nor involves the invertor rames of the pubis.

Gross Pathology: The specimen consists of three slides, labeled 10001, submitted by Dr. H. D. Milis, St. Vincent Hospital, Sansta Pe, New Herico.

Interesconde Pathology: This is a very unusual come lesion in our experience.

It does not fit any of the usual types of bone lesions. To is certainly not a give cell tumor, which invariably has vascularized strong and giant cells. This lesion has considerable connective tissue and at times has a pattern which we see in the severalled non-estempenic fibroms of Jarre. However, this is very such larger as contains large numbers of fear, cells, plasma cells and foreign-body giant cells. I presume there are no other lesions. The question now is what should we call it. I think the term that would closest fit the problem would be monthering at would expect the prognosis to be expellent. If the patient devalors any other lesions, we would be interested in hearing about them.

Diagnosis: Tone, publis - Mantholytonom vs. fibroxauthoseemun -

-129

Age

WASHINGTON UNIVERSITY NEDICAL SCHOOL

LABORATORY OF SURGICAL PATHOLOGY

Surg. Path. No. 55 5583

Nosp. No. 1-0-55-06125

Date

3-1-55

....thyroid, excision - Adenoma

montein, Lolin

giagnosis

11 3208 Carson Rd.

all Diagnosis Hyperperothyroid

Perathyroidectomy.

Dr. Bricker

Nospital

Barnes

History:

1027

Sex

a State

and Site of Symptoms:

marathyroid.

cross Pathology: The specimen is stated to be parathyroid adenoma. The specimen measures 7 cm. in longest diameter and 4 cm. in width. There is a dumb-bell extension measuring 3.4 cm. and the width is 1 cm. The gland weighs 20 grans and surface is smooth with areas of punctate hemorrhage interlacing the dusky brown surface. The gland is extremely soft and there are areas which are a white to a light grey in color and on cut sectioning ducts and cysts are present. The sections are taken from the posterior as of the gland so that we could preserve the gland for demonstration purposes. Photographs are taken and representative specimens are placed in Zenker's section and formalin. Jar II (Stamp)

Microscopic Pathology: This is a parathyroid adenoma composed of numerous

nests of chief cells separated by a scanty, highly vascular stroma. There /5

no tendency to trabecular growth pattern. Slight veriation in nuclear size with

an occasional large nucleus is seen; however, mitotic figures are not evident

Diagnosis: Parathyroid, excision - Adenoma.

E MI Line Kitt

Lauren V. Aokeman, .

WASHINGTON UNIVERSITY MEDICAL SCHOOL

LABORATORY OF SURGICAL PATHOLOGY

OTHER S. P. Nos. Children

-28-50

Final Diagnosis:

Skin, scalp - Lymphosarcoma

Illustrations

Name Sinnger, Karen

Address

Physician

Address

Operator Dr. Byars

Address

Clinical Diagnosis: Lymphosarcoma?

Operation: Date 10-28-50

Place Children's

Excision biopsy and

skin graft

Clinical History: Color

Sex F

Marital State

Occupation

Duration and Site of Symptoms:

On June 9, 1950 patient bumped her forehead. Bump on head has persisted and recently began to onlarge. Has been biopsied previously,

Cross Pathology: The specimen consists of a roughly oval-shaped portion of skin, said to have been excised from the scalp. It measures 5xh cm. and contains in its center a healing scar measuring 3 cm. in length and containing several interrupted silk sutures. There is subcutaneous tissue beneath the skin; it seems to go down to the aponeurosis of the scalp. On cross section through the scar there can be seen, extending 1 cm. from each side of the scar, a whitish area which is soft, fairly well delineated, and extends down to the galea. Representative sections were taken, labeled:

A-cross section.
B-longitudinal section through the end of the specimen.

Formalin Jar I (Walker).

Microscopic Pathology: This process involves the dermis, leaving a clear accorded of non-involvement between the mass and the epidermis. The process extends the entire depth of the excision. The individual cells are all the same, with prominent nuclei and vesicular cytoplasm. This lesion has to be classified 45 a lymphoma. Dermatopathologists might put this in the Spiegler-Fendt sarcoid group. I have seen such lesions gured by simple excision; however, any statement regarding the promosis is not justified. The patient must be followed closely.

Diagnosis: Skin, scalp - Lymphosarcoma.

addendum! This child developed a painful lesion in left tibia in february, 1955.

Diagnosis - lymphosancoma Lauren V. Ackerman, M.D.

5.P. # 55-2229

6 (CONTI) 9 WASHINGTON UNIVERSITY MEDICAL SCHOOL

Siminger, Karen from Dr. Honny Halloy St. Joseph Rospital Alton, Illinois magnosis

LABORATORY OF SURGICAL PATHOLOGY

Date

Bone, tibia - Lymphosarcom

il Diagnosis Osteonyelitis & Heuroblestons

Age

Biopsy 42100

1550 Hospital

History:

Color ? Sex Female

Single

and Site of Symptoms:

lesion is from the left tibin which was altered by a change thought most likely to be an osteomyelitis by the radiologist, but upon biopsy was found to be Tumor tissue apparently involving the shaft of the bone within and extending thRough the cortex. Dr. Hagebusch sent slides from this patient to Barnes Hospital about five years ago (S.P. 50-4921), from a lesion reported to have been removed from her scalp. The child apparently has been well until recent weeks when her left leg began giving her some pain and discomfort, and x-rays disclosed a rather extensive involvement of the shaft of the tibia. There /6 m child is healthy except for her leg without relatible lymph node, liver or spleen tumor mass, 15 Not anemic, without Dever

Gross Pathology: The specimen consists of one slide and one pareful block of tissue labeled 23172 submitted by Dr. Henry Helley, St. Joseph Hospital, Alton, Illinois.

cells having indistinct cellular borders, eosinophilic cytoplasm, large irregular nuclei with five chromatin and occasional small nucleoli. Indicate mitotic figures are seen. Dense reticulum fibers are present, which set off clusters of cells. Considerable fibrosis is present. We saw this can believe in 1950 (our number 50-1921) for the shin nodule which was called lymphosomes. But at that thus the child had no peripheral blood findings and was in good health. We are therefore amused by the sequence of events. We think this child should have a thorough course of irrediction to the leg. I same that the other films of the sheletal series are negative. We would centurally like to know the differential white blood count, and we think a bone markow study should be done. I would consider this child will eventually if of disseminated lymphosorcous, but the course certainly has been peculiar to date, and any prediction is pure specification.

Diagnosis: Bone, tibia - Lymphosarcoma

LASE 7

Aron Dr. Vormon Pottit Paditosh, Kontucky

Age 53

WASHINGTON UNIVERSITY MEDICAL SCHOOL

11858

of Diagnosis

LABORATORY OF SURGICAL PATHOLOGY

Surg. Path. No. 55 3870

Hosp. No. 03 83500

Date 6-2-55

Done, pelvis - Paget's disease

ical Diagnosis Not stated

eration

irator

Mospital

"ical History:

Color

0

Sex Male

tal State

tion and Site of Symptoms:

Patient had fractured his left tibia and right ribs 10 weeks before. A biopsy of the ilium medially and laterally to the acetabilum was done.

Gross PathologyC This specimen consists of four slides, numbered 1183, submitted by Dr. Vernon Pettit, Paducah, Kentucky.

EVILLATING IN

Microscopic Pathology: The microscopic appearance is characteristic of Paget disease. The bone trabeculae are dense without much evidence of Haversian systems. Bone lamellae are irregular and the cement lines have little orderly pattern of arrangement. Both osteoclastic and osteoblastic activity is present. There is some fibrosis within the intertrabecular spaces.

On the basis of the films, metastatic malignancy, particularly prostate, can be confused with or even cacompanying Paget's disease. The presence of other fractures is also compatible with Paget's because of poor structural quality of the bones.

We would like to use this case for the seminar for orthopedic surgeons, and would like to have the films of the other fractures which might confuse them.

Diagnosis: Bone, pelvis - Paget's disease No SCIDE

Lauren V. Ackerman, M.D.

online, Theodora on Dr. Harry Relley Dt. Joseph Hospital Alton, Illinois

LABORATORY OF SURGICAL PATHOLOGY

WASHINGTON UNIVERSITY MEDICAL SCHOOL

Surg. Path. No. 55 2252

Hosp. No. 0.8. 51489

Date 4-1-55

1210515

tone, former - Chandrionarcoma

, tragnosis Chendroblestone (radiologist)

Hospital

Age

Mistory:

: State

Color

Sev

Male

and Site of Symptoms:

Patient, samitted March 3, 1955 and discharged March 14 following, complaining of vague, intermittent alight pain several years in the region of the left hip. Pain was steady and aggrevated by sitting down and getting up. There was no swelling. X-ray disclosed an esteelytic lesion in the region of the +eochanters of the left famous posterially, diagnosed as chondrollastons by the radiologist. Calcium, phosphorus and alkaline phosphotase were

Gross Pathology: The specimen consists of three irregular fragments of body tissue, two of which measure 1.5 m l m l cm.; the third measure 5 mm. in all dimensions. The surface of all fragments is covered with Friable translucent, white material, cartilaginous in consistency.

Electroscopic Pathology: These sections show well differentiated cartifage calls, considerable calcification, some esteoid for ation and feel of estimation. Inhitiple nuclei and cellular irregularity, although not pronounced, are now the less evident. These atypical changes indicate that this is a chondrosarcoma. I have never seen an enchondroma in this location. The histological pattern is not that of a chondroblastom. With the turned in this location, hamipelvectomy is indicated, since disarticulation may increase the likelihood of persistence of twoor in the sturp.

Diagnosis: Bone, Fermir - Chondrosarcome

Addendin: 4-19-55

This slee shows theer inveding contical bone. I personally an convinced a 19-19 of the bone and/or in the sort tissue appears high. I doubt if there are distant retastages at the matrix. I feel that the risk is great enough so that definitive surgery must be done within the near inture. We are happy to send the sections to be in the series and considerable appears, and I feel sturborn enough to held to my opinion on this case, no matter if disagreement occurs. Enclosed is a copy if and of the papers.

"I feel as you do that you are dealing with an evolving chondresar:
The chondresarcoma is apparently developing out of the pre-existing benign
cartilage growth. I believe that a recurrence is to be expected.

at this time. I am inclined to think that one might try to get away with even less than a massive resection of the upper end of the femur and the introduction of a metal prosthesis. That could be, in this case, a resection estectomy of the affected area and removal of all the soft parts that were in contact with the lesional area originally. This would give an inch or two of shortening but the man would continue to have his limb and would avoid the hazards and chronic morbidity associated with the introduction of a metal prosthesis. Should there be a recurrence after radical local excision of the tumor, a disarticulation will probably have to be done."

Age 45 WASHINGTON UNIVERSITY MEDICAL SCHOOL

Think, Day mus 10. H. S. E. Beet takel Dieu Cistors' Hospital LL Russ, America

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Surg. Path. No. -

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Hosp. No. O.S. Stade

Date

LABORATORY OF SURGICAL PATHOLOGY

Hot stated - liagnosis

Distintan

Hospital

- tatory:

Color

Unite

Sex Male

. itate

site of Symptoms:

Susta / wed spiral fracture of right femur on June 23, 1955, while swinging at Abaseball -- which he missed. There has been no previous or recent illnesses and The Patient had been actively employed as a railroad employee. Approximately 8 months prior to this injury, the patient was seen in the San Francisco Southern PACIFIC reilroad Hospital for a complaint of pain in the right palvis radiating down the right thigh. Ho diagnosis was made and the patient was dismissed without TREATMENT. Roentmenograms include films made on admission to the hospital and Also operative room films. There is an oblique fracture at the junction of the middle and proximal thirds of the right femur. There is also a cyst-like lone defect that apparently contributed to this fracture. Other wise the bone structure applans normal. Physicial findings and laboratory data were entirely negative. on Jume 28 there was an open reduction of the right femur with application of some Kind of trakere and at this operation the bone cyst was visualized and curetted. The fissue was relatively firm and slightly granular and brownish-red to yellowish-GRef. There were scattered cystic areas and at the site of the collique fracture there Was hereistion in a sumb-bell feshion of tumor tissue into the soft tisue. The C/SHC ARCA of the bone measured approximately 3 cm. in diameter and the continuous Soft fisture and with delicate pedicle-like commection to the bone eyes measured Approxiately 6.5 cm. in diemeter.

GROSS PATHOLOGY: The specimen consists of 7 slides and wet tissue labeled 1599-55 to 1599-55, and four roentgenograms, all submitted by Dr. M. S. Hart, Hotel Passer' Hospital, El Paso, Texas. The roentgenograms are returned, as requested.

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SERVICE TO THE PERSON OF THE P

MICROSCOPIC PATHOLOGY: We agree with you that the lesion is a neurilemon, and its location within the femur certainly makes it worthy of publication.

There has been a case report of a similar lesion in the humerus by Gross.

Your sections demonstrate beautifully the typical palisading of nuclei, the Verocoy bodies, Antoni A and B regions, and multiple foci of cystic degenerate There are also the thick-walled blood vessels often associated with these benignaturors.

We do not believe the lesion is associated with trauma nor that it the features of a traumatic neuroma. We believe that this tumor arose from well filament which probably entered with nutrient vessels. The location of the less is compatible with this.

DIAGNOSIS: Bone, femur, excision - Maurilemoma

REFERENCE: Gross, Paul; Bailey, Frank R.; & Jacox, Harold W.; Prinary intranedullary neurofibroma of the humerus. Arch. Path. 28:716-718, 1937.

Isturen V. Ackerman, I.