

# DIAGNOSTIC CASE REPORT

U. S. GEOLOGICAL SURVEY-BIOLOGICAL RESOURCES DIVISION  
NATIONAL WILDLIFE HEALTH CENTER-HONOLULU FIELD STATION  
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**Case Number:** 25077

**Submitter Name:**

Mr. George Balazs  
National Oceanic and Atmospheric  
Administration  
2570 Dole St  
Honolulu, Hawaii 96822  
United States

**Species submitted (n):**

Turtle: Green (1)

Location:	Laie	DateCollected:	7/07/2014
Area:	Honolulu	DateSubmitted:	7/8/2014
State:	Hawaii	DateReceived:	7/8/2014
Country:	United States	DateExamined:	7/8/2014

**SPECIMENS SUBMITTED:** Carcass-Fresh

**History:** This turtle was found stranded near Laie on Oahu on 7 July 2014 and was humanely euthanized the next day due to a poor prognosis. This animal was hatched at Sea Life Park on 14 September 2005 and released into the sea in January 2007. It stranded several times after release. The MTRP ID date is 7-7-14. Identification: LHF pit tag-4523704C63, RHF pit tag-452649012A, YQ36.

**Findings:** Accession 1-green turtle immature female in fair body condition. Significant lesions included multiple tumors on the eyes, skin, and mouth extending into jaw hinge. White nodules were in intestinal serosa. Histology revealed tumors to be fibropapillomas and moderate numbers of trematode eggs were in multiple organs.

**Final diagnosis:** Accession 1-Fibropapillomatosis.

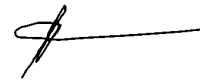
**Comments:** Gross and microscopic lesions pointed to fibropapilloma associated with vascular flukes as cause of stranding.

**Management:** Continued efforts to develop a diagnostic test for the virus associated with FP.

**Report Date (mm/dd/yyyy):** 8/14/2014

**Necropsy report:** Enclosed

**Copies of this report sent to:**



If you have questions regarding this case, contact Thierry M. Work MS, DVM, MPVM at 808-792-9520. Include above Case Number. Diagnostic findings may not be used for publication without the pathologist's knowledge and consent.

**NOTE: Information in this report supersedes any information from previous reports regarding this case**

**NATIONAL WILDLIFE HEALTH CENTER  
NECROPSY REPORT**

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**Submitter Name:**

Mr. George Balazs  
National Oceanic and Atmospheric  
Administration  
2570 Dole St  
Honolulu, Hawaii 96822  
United States

Case: 25077  
Accession: 1  
Date Collected: 7/07/2014  
Date Examined: 7/8/2014  
Prosector: T. M. Work  
Pathologist: T. M. Work

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**Signalment-Morphometrics-History**

CONDITION: (Fair) POSTMORTEM: (Excellent) EUTHANASIA: (Lethal injection)  
TAG TYPE: (Other band) TAG NO.: (4523704C63)  
SPECIES: (Turtle: Green) AGE: (Immature) SEX: (Female)  
MORPHOMETRICS: Weight carcass (19.9 kg), Straight carapace length (53.4 cm).  
COLLECTION-SITE: (Laie) AREA: (Honolulu) STATE: (Hawaii) COUNTRY: (United States)  
HISTORY: This turtle was found stranded near Laie on Oahu on 7 July 2014 and was humanely euthanized the next day due to a poor prognosis. This animal was hatched at Sea Life Park on 14 September 2005 and released into the sea in January 2007. It stranded several times after release. The MTRP ID date is 7-7-14. Identification: LHF pit tag-4523704C63, RHF pit tag-452649012A, YQ36.

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**External/Internal**

EXTERNAL: There are 75 external tumors: 40 on the neck, 13 on the left front flipper, 10 on the right front flipper, 6 on the right hind flipper, and 1 each on the left hind flipper, cloaca, each eye, and each jaw hinge.

INTERNAL: The right jaw hinge tumor extends into the mouth and tongue. The stomach is empty. There are white nodules on the intestinal serosa.

PRELIMINARY DIAGNOSIS: Fibropapilloma.

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**Samples**

SECIMENS RECEIVED: Carcass-Fresh.

HISTO: Spleen (A); Skin (B); Skin (C); Skin (D); Skin (E); Skin (F); Skin (G); Skin (H); Skin (I); Skin (J); Skin (K); Skin (L); Skin (M); Skin (N); Skin (O).

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**Laboratory Results**

HEMATOLOGY: Hematocrit-19%, TotalSolids-3 g/dl (7/8/2014).

**HISTOPATHOLOGY**

Skin: Normal skin in (B). Slides with inclusions include three sections (C), one section (D), one section (E), two section (F), two sections (J), one section (K), two sections (N).

Spleen: Small numbers of trematode eggs surrounded by giant cells are present.

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COMMENTS:Gross and microscopic lesions pointed to fibropapilloma associated with vascular flukes as cause of stranding.

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Final Diagnosis (in order of importance)

Diagnosis	Topog	Morpho	Etiol	Funct	Dis	Link
1. Fibropapillomatosis	(T01000 )	(M76810 )	( )	( )	( )	(AW)
2. Vascular flukes	(T40000 )	( )	(E46500 )	( )	( )	( )

Diagnostic findings may not be published without the knowledge and consent of the pathologist. Milt Code: (Infectious disease)