

EQAO14 for the May 2018 Workshops

Final analysis of responses received with diagnoses

CASE 1: 36 yrs. F. Maxilla lesion.

CONSULTANTS

Odontogenic fibroma	1
Angiofibroma	1
Odontogenic myxoma	1
Arteriovenous malformation (carvernous haemangioma)	1
Granulation tissue/inadequate	1
Haemangioma	1
Neurofibroma	1
Fibromatosis	1
No answer	1

RESIDENTS

Solitary fibrous tumour	6
Neurofibroma (myxoid)	6
Fibroma	4
No answer	3
Odontogenic fibroma	2
Fibromyxoma	1
Angiofibroma	1
Ameloblastoma	1
Central granular cell odontogenic fibroma	1
Fibrocollagenous/scar tissue	1

DIAGNOSIS: Odontogenic fibroma 35

CASE 2: 51 yrs. F. Maxilla lesion.	
CONSULTANTS	
Ameloblastoma (follicular variant)	9
RESIDENTS	
Ameloblastoma (plexiform, follicular, multicystic variant)	19
Pleomorphic adenoma	5
Polymorphous low grade adenocarcinoma	1
Sebaceous adenoma	1
DIAGNOSIS: Plexiform ameloblastoma	35

CASE 3: 36 yrs. F. Maxilla lesion.	
CONSULTANTS	
Ameloblastoma (plexiform variant, follicular variant, peripheral)	9
RESIDENTS	
Ameloblastoma (plexiform, follicular, acanthotic variant)	18
Polymorphous low grade adenocarcinoma	6
Cystadenoma	1
No answer	1
DIAGNOSIS: Plexiform ameloblastoma	35

CASE 4: 23 yrs. M. Mandible lesion	
CONSULTANTS	
Adenomatoid odontogenic tumour	3
Ameloblastoma (papilliferous-keratotic, follicular variant)	2
Adenoid cystic carcinoma	1
Primary intra-osseous carcinoma/malignant ameloblastoma	1
Calcifying epithelial odontogenic tumour	1
Pleomorphic adenoma	1
RESIDENTS	
Adenoid cystic carcinoma	12
Odontogenic keratocyst	2
No answer	3
Ameloblastic carcinoma	2
Squamous cell carcinoma - adenoid variant	1
Kerato-ameloblastoma	1
Basal cell adenoma	1
Dentinogenic ghost cell tumour	1
Trichoepithelioma	1
Ameloblastoma	1
Craniopharyngioma	1
DIAGNOSIS: Keratoacanthomatous ameloblastoma	35

CASE 5: 42 yrs. M. Mandible lesion	
CONSULTANTS	
No answer	3
Keratinous cyst	2
Keratin debris ? Keratocyst	1
Haemorrhage (with sickled red cells)	1
Mycosis	1
Inflammatory/necrosis	1
RESIDENTS	
No answer/inadequate	8
Odontogenic cyst	7
Myxoma	3
keratinous cyst (of the mandible)	2
Odontogenic keratocyst	1
Scanned slide	1
Simple bone cyst	1
Fibroma	1
Plasmacytoma	1
Odontogenic fibroma	1
DIAGNOSIS: Keratin, probably cyst content. Suggestive but not diagnostic	35

CASE 6: 25 yrs. F. Mandible lesion

CONSULTANTS

Ameloblastic fibroma

8

Squamous odontogenic tumour

1

RESIDENTS

Ameloblastic fibroma

10

Metastatic adenocarcinoma

6

Odontogenic fibroma

4

Desmoplastic ameloblastoma

2

Ameloblastoma (fibroblastic)

2

Craniopharyngioma

1

No answer

1

DIAGNOSIS: Ameloblastic fibroma

35

CASE 7: 67 yrs. M. Mandible lesion	
CONSULTANTS	
Odontogenic (keratinous cyst) keratocyst	4
Ossifying fibroma	2
Odontogenic cyst	1
Osteogenic fibroma (chronically inflamed)	1
Keratocystic odontogenic tumour	1
RESIDENTS	
Odontogenic keratocyst	6
Radicular cyst	5
Melanoma	3
Basal cell carcinoma	2
Dentigerous cyst	2
Ossifying fibroma	2
No answer	2
Chronic sialadenitis	1
Squamous cell carcinoma	1
Odontogenic cyst	1
Lymphoepithelial cyst	1
DIAGNOSIS: Odontogenic keratocyst	35

CASE 8: 12 yrs. F. Mandible lesion	
CONSULTANTS	
Radicular cyst	2
Dentigerous cyst	1
Acute suppurative dermatitis	1
Ameloblastoma (cystic)	1
A reactive lesion (epulis)	1
Squamous cell carcinoma arising in odontogenic cyst	1
No answer	1
Pyogenic granuloma	1
RESIDENTS	
Squamous cell carcinoma	7
Pyogenic granuloma/lobular capillary haemangioma	5
Dentigerous cyst	3
Squamous odontogenic epithelium	2
Lichenoid dermatitis	2
Ameloblastic carcinoma	1
No answer	1
Focal epithelial hyperplasia (Beck's disease)	1
Periodontal cyst	1
Ossifying fibroma	1
Chronic inflammation	1
Fibrous epulis (ulcerated)	1
DIAGNOSIS: Radicular cyst	35

CASE 9: 42 yr old F with anterior neck swelling, clinical diagnosis of Colloid goiter

CONSULTANTS

Papillary (thyroid) carcinoma	6
Papillary hyperplasia with degenerative changes	1
Adenomatoid hyperplasia (toxic goiter)	1
Basal cell adenoma (background multinodular goiter)	1

RESIDENTS

Papillary thyroid carcinoma (follicular variant)	20
Canalicular adenoma	2
Follicular adenoma	1
No answer	1
Papillary hyperplasia	1
Hashimoto thyroiditis	1
DIAGNOSIS: Papillary thyroid carcinoma	35

CASE 10: 34 yr old F with anterior neck swelling	
CONSULTANTS	
Chronic granulomatous inflammation	3
Ruptured thyroglossal duct cyst	2
Necrotising sialometaplasia	1
No answer	1
Hashimoto thyroiditis	1
De Quervain's thyroiditis (background multinodular goiter)	1
RESIDENTS	
(Subacute) granulomatous thyroiditis/De Quervain's thyroiditis	7
Carcinoid	6
Follicular carcinoma (with necrotising acute on chronic inflammation)	4
Hashimoto thyroiditis/autoimmune thyroiditis	3
No answer	2
Branchial cleft cyst	1
Subacute thyroiditis	1
Chronic lymphocytic thyroiditis	1
Tuberculosis	1
DIAGNOSIS: Ruptured thyroglossal duct cyst (granulomatous thyroiditis)	35

CASE 11: 87 yr old M, left painless parotid mass of 8 years duration

CONSULTANTS

Basal cell (monomorphic) adenoma	4
Myoepithelioma	4
No answer	1

RESIDENTS

Basal cell (monomorphic) adenoma	14
Myoepithelioma	6
Benign lymphoepithelial lesion	1
Adenocarcinoma (low grade)	1
Pleomorphic adenoma	1
Pleomorphic malignant tumour of the salivary gland	1
Adenocystic carcinoma	1
No answer	1

DIAGNOSIS: Basal cell adenoma 35

CASE 12: 38 yr old M, right parotid mass,? Parotid adenoma	
CONSULTANTS	
Pleomorphic adenoma	7
Mucoepidermoid carcinoma	1
No answer	1
RESIDENTS	
Pleomorphic adenoma	20
Carcinoma ex-pleomorphic adenoma	4
No answer	2
DIAGNOSIS: Pleomorphic adenoma	35

CASE 13: 48 yr old F, progressive right thyroid lobe swelling deviating the trachea

CONSULTANTS

Hurthle cell adenoma	3
Follicular adenoma	3
Medullary thyroid carcinoma	1
Oncocytoma	1
Oncocytic (Hurthle) carcinoma	1

RESIDENTS

Medullary thyroid carcinoma	10
Hurthle cell adenoma	4
Oncocytoma	3
Neuroendocrine tumour of thyroid (grade II)	2
Follicular adenoma	2
Parathyroid adenoma	1
Thyroid carcinoma	1
Follicular thyroid carcinoma	1
Poorly differentiated (insular) carcinoma	1
No answer	1

DIAGNOSIS: Follicular adenoma 35

CASE 14: 40 yr old with right parotid swelling

CONSULTANTS

Pleomorphic adenoma	6
Adenoid cystic carcinoma	1
Cellular mixed tumour	1
Basal cell adenoma	1

RESIDENTS

Pleomorphic adenoma	9
Myoepithelioma	7
Mucoepidermoid carcinoma	4
Not found/no answer	4
Hyaline myoepithelioma	1
Cellular pleomorphic adenoma	1

DIAGNOSIS: Pleomorphic adenoma 35

CASE 15: 40 yr old F who had thyroidectomy

CONSULTANTS

Follicular adenoma

3

Papillary Thyroid Carcinoma (follicular variant)

3

Follicular hyperplasia

1

Giant cell tumour

1

Adenoid cystic carcinoma

1

RESIDENTS

Follicular adenoma

11

Colloid goiter/multinodular goiter

7

Papillary Thyroid Carcinoma (follicular variant)

5

Follicular hyperplasia

1

Follicular carcinoma of the thyroid

1

No answer

1

DIAGNOSIS: (follicular variant) Papillary thyroid carcinoma

35

CASE 16: 52 yr old F, painful parotid swelling with mild paresis of the buccal branch of the facial nerve.

CONSULTANTS

Mucoepidermoid carcinoma (high grade)	3
Adenoid cystic carcinoma (solid variant)	2
Salivary duct carcinoma	1
Adenosquamous carcinoma	1
No answer	1
Tuberculous sialadenitis	1

RESIDENTS

Mucoepidermoid carcinoma (high grade)	9
Adenoid cystic carcinoma	7
Salivary duct carcinoma	5
Carcinosarcoma	1
Medullary carcinoma	1
No answer	1
Malignant	1
Pleomorphic adenoma	1
DIAGNOSIS: (High grade) Mucoepidermoid carcinoma	35

CASE 17: 30 year old male. Right thyroid lobe 70 mm nodule. THY3F.	
CONSULTANTS	
No answer	3
Follicular carcinoma	3
Follicular adenoma (with Hurthle cell changes)	2
Hyalinised trabecular follicular adenoma	1
RESIDENTS	
Hyalinizing trabecular adenoma	10
Medullary thyroid carcinoma	3
Follicular carcinoma	3
Nodular goiter	2
No answer	2
Hurthle cell adenoma	2
Papillary carcinoma of the thyroid	1
Follicular adenoma	1
Neuroendocrine tumour	1
Malignant	1
DIAGNOSIS: Follicular carcinoma of the thyroid	35

CASE 18: Gingival swelling in 12 year old female.	
CONSULTANTS	
Giant cell tumour	3
Giant cell epulis	2
Peripheral giant cell tumour	1
Giant cell fibroma	1
Giant cell granuloma	1
No answer	1
RESIDENTS	
Central giant cell (reparative) granuloma	7
Giant cell tumour of bone	5
Giant cell tumour	5
Giant cell epulis (peripheral giant cell granuloma)	4
Giant cell granuloma	2
No answer	2
Dermatofibroma	1
DIAGNOSIS: Giant cell epulis (peripheral giant cell granuloma)	35

CASE 19: 53 yr old F with jaw swelling.

CONSULTANTS

Mucoepidermoid carcinoma (low grade)

8

No answer

1

RESIDENTS

Mucoepidermoid carcinoma (low grade, intermediate grade)

20

No answer

2

Ameloblastic fibrosarcoma

1

Metastatic clear cell carcinoma (possibly from kidney)

1

Mucocoele

1

Sebaceous adenoma

1

DIAGNOSIS: (Low grade) Mucoepidermoid carcinoma

35

CASE 20: 6 yr old boy, painless right eye proptosis for 9 months – right supra-orbital tumour. No associated visual loss.	
CONSULTANTS	
Cementifying fibroma	2
Meningioma (psammomatous)	2
Fibroblastic tumour	1
Cemento-osseous dysplasia (Cemento-ossifying fibroma)	1
Ossifying fibroma	1
No answer	1
Cementoma	1
RESIDENTS	
Juvenile (psammomatous) ossifying fibroma	8
Psammomatoid ossifying fibroma	7
Fibro-osseous lesion/dysplasia	3
(Psammomatous) meningioma	3
Cemmentoossifying fibroma	2
Ossifying fibroma	1
Cementifying fibroma	1
No answer	1
DIAGNOSIS: Probably psammomatous meningioma - IHC required	35

CASE 21: Male 36yrs. Headache, neck pain, nasal obstruction, weight loss and poor appetite. MRI showed mass in the nasopharynx.

CONSULTANTS

Angiofibroma	4
Cavernous haemangioma	2
Reactive chronic inflammation/inflammatory polyp	2
No answer	1

RESIDENTS

Cavernous haemangioma	9
Angiofibroma	6
MALT lymphoma	6
No answer	2
Polymorphous low grade adenocarcinoma	1
Haemangioma	1
Inverted papilloma	1

DIAGNOSIS: Nasopharyngeal angiofibroma 35

CASE 22: Adult male, occipital scalp lesion. IHC: lesional cells are (22b) TTF-1 and (22c) thyroglobulin positive.

CONSULTANTS

Metastatic follicular carcinoma of the thyroid

6

Metastatic papillary carcinoma

2

No answer

1

RESIDENTS

Metastatic (follicular, papillary) carcinoma of the thyroid

16

Ectopic/heterotopic thyroid

3

No answer

3

Spiradenoma

1

Benign follicular neoplasam

1

Follicular adenoma

1

Langerhan cell histiocytosis

1

DIAGNOSIS: Metastatic thyroid carcinoma

35

CASE 23: Adult female with slowly growing lesion in palate 5 mm greatest dimension ? pleomorphic adenoma.
IHC: (23b) p63 marks squames, no myoepithelial cells with (23c) SMMHC, (23d) Ki-67 index about 1%.

CONSULTANTS

Mucoepidermoid carcinoma (low grade)	5
Polymorphous low-grade adenocarcinoma	2
No answer	1
Well differentiated squamous cell carcinoma	1

RESIDENTS

Mucoepidermoid carcinoma (low grade, high grade)	16
No answer	3
(Basaloid) Squamous cell carcinoma	1
AIDS related lymphadenopathy	1
Granular cell tumour	1
Adenoid cystic carcinoma	1
Salivary duct tumour	1
Basal cell adenoma	1
Necrotising sialometaplasia	1
DIAGNOSIS: (Low grade) Mucoepidermoid carcinoma	35

CASE 24: Male 3yrs. Left orbital mass. Patient had symmetrical masses involving orbits, lacrimal glands and adherent to extraocular muscles. IHC: epithelioid histiocytes express (24b) CD68 and (24c) S-100. (24d) CD21 marks the FDC meshworks.

CONSULTANTS

Follicular dendritic cell tumour	2
Langerhans cell histiocytosis	2
No answer	2
Rosai-Dorfman's disease	1
Malignant fibrous histiocytoma/lymphoma NHL	1
Non-Hodgkin's lymphoma	1

RESIDENTS

Inflammatory pseudotumour (IgG4 sclerosing related disease)	9
Langerhans cell histiocytosis	5
No answer	4
Histiocytosis (X)	3
Retinoblastoma	1
Rosai-Dorfman disease (extranodal)	1
Chronic granulomatous lesion	1
Non-Hodgkin's lymphoma	1
Warthin tumour	1
DIAGNOSIS: Extra-nodal Rosai-Dorfman disease	35

CASE 25: Female 13 yrs. Lymph node biopsy from submandibular salivary gland. Bilateral parotid and submandibular gland swelling with associated bleeding gums. IHC: (25b) AE1/3 marks epithelial cells, germinal centres are (25c) BCL-2 negative, (25d) HIV p24 is positive.

CONSULTANTS

NHL Burkitt lymphoma	2
No answer	2
HIV-associated lymphadenitis	1
High grade non-hodgkin's lymphoma	1
Chronic sialadenitis	1
Reactive hyperplasia	1
Chronic lymphadenitis	1

RESIDENTS

Bcl 2 negative lymphoma	6
Non-Hodgkin's lymphoma (possibly mantle cell lymphoma, DLBCL, Burkitt)(HIV-associated)	6
No answer	5
Reactive lymphoid hyperplasia	4
Lymphoepithelial cyst	2
Sinus histiocytosis	1
Sialadenitis	1
Follicular lymphoma	1

DIAGNOSIS: HIV-associated Mikulicz disease (benign lymphoepithelial lesion) 35

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