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CASE REPORT

Bronchiolar adenoma with unusual presentation: Two case reports

Ying Du, Zheng-Yan Wang, Zheng Zheng, Ying-Xue Li, Xiu-Yu Wang, Ran Du

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Abstract

BACKGROUND

The clinicopathological features, immunohistochemical characteristics, and genetic mutation profile of two unusual cases of distal bronchiolar adenoma are retrospectively analyzed and the relevant literature is reviewed.

CASE SUMMARY

Case 1 was a 63-year-old female patient who had a mixed ground-glass nodule, with mild cells in morphology, visible cilia, and bilayer structures in focal areas. Immunohistochemical staining for P63 and cytokeratin (CK)5/6 revealed the lack of a continuous bilayer structure in most areas, and no mutations were found in epidermal growth factor receptor, anaplastic lymphoma kinase, ROS1, Kirsten rat sarcoma, PIK3CA, BRAF, human epidermal growth factor receptor-2 (HER2), RET, and neuroblastoma RAS genes. Case 2 was a 58-year-old female patient who presented with a solid nodule, in which most cells were observed to be medium sized, the nuclear chromatin was pale and homogeneous, local cells had atypia, and cilia were found locally. Immunohistochemical staining for P63 and CK5/6 showed no expression of these proteins in mild cell morphology whereas the heteromorphic cells showed a bilayer structure. The same nine genes as above were analyzed, and HER2 gene mutation was identified.

CONCLUSION

Some unresolved questions remain to be answered to determine whether the lesion is a benign adenoma or a part of the process of malignant transformation from benign adenoma of the bronchial epithelium. Furthermore, whether lesions with atypical bilayer structures are similar to atypical hyperplastic lesions of the breast remains to be elucidated. Moreover, clarity on whether these lesions can be called atypical bronchiolar adenoma and whether they are invasive precursor lesions is needed. Future studies should examine the diagnostic significance of HER2 gene mutation as a prognostic indicator.

Key Words: Bronchiolar adenoma; Human epidermal growth factor receptor-2 gene;



Thoracic tumors; Cellular atypia; Ciliated muconodular papillary tumor; Case report

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Core Tip: In terms of morphology, case 1 had no atypical cells, visible cilia, and bilayer structures in focal areas. Immunohistochemical staining for P63 and cytokeratin (CK)5/6 revealed the lack of a continuous bilayer structure in most areas, and no mutations were found in the genes detected. In case 2, most cells were medium-sized. Furthermore, local cells had atypia, and cilia were found locally. Immunohistochemical staining for P63 and CK5/6 revealed that only heteromorphic cell regions showed a bilayer structure. Human epidermal growth factor receptor-2 gene mutation was identified. Further research is needed to investigate whether these lesions can be called atypical bronchiolar adenoma and whether they are invasive precursor lesions.

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INTRODUCTION

Bronchiolar adenoma (BA) clinically presents as a benign or potentially malignant tumor. It is thought to originate from the bronchiolar epithelium, which has a series of cell differentiation in a bilayer arrangement of multipartite epithelial cells and basal cells. BA is expected to gain more widespread recognition in the 2021 edition of the World Health Organization classification of thoracic tumors[1,2]. The histological variants of BA can be distinguished as the "classic" ciliated muconodular papillary tumor (CMPT) (proximal type) and "non-classic" CMPT (distal type). The histological features of CMPT include a bilayer structure composed of a continuous basal cell layer and luminal cell layer (comprising varying proportions of mucinous cells, ciliated cells, Clara cells, and/or type II alveolar epithelial cells) [3,4]. BA often exhibits only focal or no papillary architecture and contains variable numbers of ciliated and mucinous cells, with some lesions entirely lacking one or both of these components[3,4]. A recent study revealed the involvement of potential gene mutations that may be responsible for the neoplastic nature of BA[5]. Mutations in the anaplastic lymphoma kinase (ALK), Kirsten rat sarcoma (KRAS), BRAF, AKT1, and epidermal growth factor receptor (EGFR) genes were identified in BA, and these genes were considered as driver oncogenes that eventually lead to the development of neoplasms[6-9]. Meanwhile, in a recent study on BA, Chang et al^[2] identified BRAF V600E mutations (38%), EGFR exon 19 deletions (10%), EGFR exon 20 insertions (10%), KRAS mutations (24%), and HRAS mutations (5%), thus supporting a truly neoplastic process of BA.

Cases of single- or double-layer bronchial adenoma with atypical bronchiolitis are rare. Here, we report two cases with BA confirmed by imaging, morphology examination, immunohistochemical characteristics, and genetic tests.

CASE PRESENTATION

Chief complaints

Case 1: A 63-year-old female patient was found to have pulmonary nodules on examination at a local hospital in September 2020.

Case 2: A 58-year-old female patient underwent chest computed tomography (CT) examination at our hospital on January 19, 2021 and was identified as having nodules in the right upper lobe of the lung.

History of present illness

Case 1: Upon examination at a local hospital in September 2020, the patient was found to have pulmonary nodules; she did not report having cough or expectoration, chest pain, chest tightness, or other symptoms. No further specific diagnosis was made or treatment advised. Since the discovery of the nodules, the patient has been lucid and mentally healthy with normal diet and sleep. The laboratory reports for urine and stool were normal, and there were no significant changes in weight.

Case 2: The patient underwent chest CT examination at our hospital on January 19, 2021 and was identified as having nodules in the right upper lobe of the lung. Except for occasional cough and phlegm, she showed no other signs or symptoms.

History of past illness

The patients had a free previous medical history.

Personal and family history

The patients had no personal and family history.

Physical examination

Case 1: After admission to the hospital, the patient's temperature was 36.6 °C, heart rate was 58 bpm, respiratory rate was 16 breaths per minute, and blood pressure was 112/59 mmHg.

Case 2: The patient's temperature was 36.9 °C, heart rate was 67 bpm, respiratory rate was 16 breaths per minute, and blood pressure was 120/67 mmHg.

In both cases, chest examination found that the trachea was in the center, the thorax was not deformed, the breath sounds of the lungs were slightly thicker, and no obvious dry or wet rales were heard.

Laboratory examinations

Case 1: The biochemical indicators showed the following results: Carcinoembryonic antigen (CEA) was 0.71 ng/mL (reference range: 0-5 ng/mL), neuron-specific enolase (NSE) was 11.94 ng/mL (reference range: 0-35 ng/mL), cytokeratin protein (CK19) was 2.33 ng/mL (reference range: 0-3.3 ng/mL), squamous cell carcinoma antigen (SCC) was 0.8 ng/mL (reference range: ≤ 1.5 ng/mL), carbohydrate antigen 125 (CA125) was 6.7 U/mL (reference range: 0-35 ng/mL), and pro-gastrin-releasing peptide (pro-GRP) was 24.99 pg/mL (reference range: ≤ 63 pg/mL).

Case 2: The biochemical indicators showed the following results: CEA was 3.22 ng/mL, CA125 was 9 U/mL, NSE was 11.21 ng/mL, CK19 was 1.87 ng/mL, SCC was 0.7 ng/mL, and pro-GRP was 27.65 pg/mL, all of which were normal.

Imaging examinations

Case 1: On December 7, 2020, the findings of thoracic enhanced CT performed at our hospital revealed bronchitis, right lower pulmonary bullae, and subpleural nodules and pleural traction in the lower lobe of the right lung of the patient (Figure 1A).

Case 2: The patient underwent chest CT examination at our hospital on January 19, 2021 and was identified as having nodules in the right upper lobe of the lung (Figure 1B).

Surgical findings

Case 1: A small subpleural nodule was found in the lower lobe of the right lung. The nodule was approximately in diameter and did not involve the visceral pleura. A wedge-shaped resection of the nodule was performed.

Case 2: After performing preoperative puncture and locating the right upper lobe nodule, a solid nodule with a diameter of 0.7 cm was palpated around the lobe. The nodule of the right upper lobe was excised by a wedge-shaped incision.

Gross pathological examination

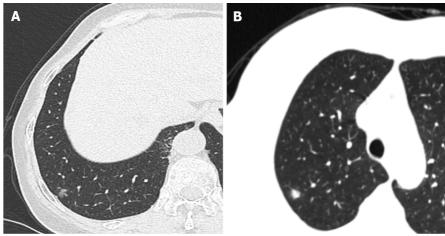
Case 1: A piece of gravish red lung tissue was removed by wedge resection; the tissue measured 9 cm × 3.5 cm × 2 cm. The pleura was grayish red and smooth; a grayish white nodule was found by multisection incision. The nodule measured 0.6 cm \times 0.5 cm \times 0.3 cm. The texture of the nodule was similar to that of normal salivary glands. It showed a clear boundary attached to the surrounding normal lung tissue, which was away from the anastomosis line, and the remaining section was gravish red and soft.

Case 2: Upon gross pathological examination, we identified a piece of grayish red lung tissue measuring 10 cm × 4 cm × 2 cm. A partial incision was made by the surgeon. The pleura was gravish red and smooth; a grayish white nodule was later found upon incision. The nodule measured 0.6 cm \times 0.5 cm \times 0.5 cm. The texture of the nodule was similar to that of normal salivary glands. The nodule showed clear boundaries and was attached to the pleura 2 cm away from the anastomosis line. The remaining section was grayish red and soft.

Microscopic pathological examination and immunohistochemistry findings

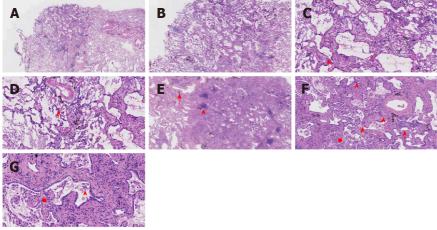
Surgical specimens were fixed with 4% neutral buffer formaldehyde solution (18-24 h) and embedded





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Figure 1 Imaging findings of pulmonary nodules in case 1 and case 2. A: A mixed ground-glass nodule with a diameter of 0.6 cm in the subpleura of the posterior basal segment of the lower lobe of the right lung in case 1. The texture was relatively uniform, and the nodule was slightly pulled near the pleura; B: A solid lobulated nodule at the apex of the right upper lobe, 8 mm in diameter, with blurred edge, in case 2.



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Figure 2 Pathological features of case 1. A: At low magnification (40 ×, frozen section), the boundary of the tumor was relatively clear, and there was air cavities; B: At low magnification (100 ×, frozen section), the boundary of the tumor was relatively clear, and there was air cavities; C and D: Observations at high magnification (200 ×, frozen section) revealed that the tumor cells were mainly arranged in a monolayer structure, and the local part seemed to be a bilayer structure. Morphologically, the cells were observed to be medium sized, the nuclear chromatin was pale and homogeneous, and local cilia were seen (red arrow); E: At low magnification (100 ×), the relationship between the pulmonary lobular artery and bronchioles was close (arrow), and peripheral stromal lymphocytes were infiltrated in a focal shape (triangle); F and G: Observations at medium to high magnification (200 × and 400 ×, respectively) revealed that tumor cells were arranged as papillary and mural structures. The cell morphology is mild with visible cilia (arrows), bilayer structures (triangles), aggregation of phagocytes in the alveolar cavity (circle, F), and a fibrous non-cancerous stroma (circle, G).

> with paraffin; sections (4 µm thick) were subjected to hematoxylin-eosin staining[10] and immunohistochemistry analyses.

> Immunohistochemical staining: Immunohistochemical analyses were performed on paraffinembedded sections using primary antibodies against the following proteins: P40, P63, P53, thyroid transcription factor 1, CK5/6, CD34, Ki-67, and collagen IV. All primary antibodies were purchased from Fuzhou Maixin Biotechnology Co., Ltd. (Fuzhou, China). Immunohistochemistry was performed according to the manufacturer's instructions. Polybutylene succinate was used as a negative control. Staining was performed using the Roche Benchmark XT medical system (Shanghai).

> Genetic testing: Mutations in the EGFR, ALK, ROS1, KRAS, PIK3CA, BRAF, human epidermal growth factor receptor-2 (HER2), REarranged during transfection, and neuroblastoma RAS genes were detected using the ADX Arms and the Amoydx FFPE DNA/RNA Tissue Kit (Xiamen Ade Biomedical Technology Co., Ltd.). All experimental procedures were performed strictly according to the manufacturer's instructions.

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Case 1: At low magnification (100 ×), the tumor boundary was relatively clear, and air cavities were present. The pulmonary lobular artery and bronchioles were observed, and the peripheral stromal lymphocytes were localized (Figures 2A, 2B and 2E). At high magnification (200 × and 400 ×), most tumor cells were arranged in a monolayer structure, and the local part appeared as a bilayer structure. Morphologically, the cells were observed to be of medium size (the size of the nucleus and normal phagocytic nuclei was equivalent in the alveolar space); the nuclear chromatin was pale and homogeneous, and local cilia were seen (Figures 2C-G). Thyroid transcription factor 1 (TTF1) was expressed in bronchioles and the peripheral alveolar epithelium, with the only difference being in the intensity of expression. The results of P40, P63, and CK5/6 staining were the same, and staining was positive only in the bilayer structure of the tumor (Figure 3).

Case 2: At low magnification (100 ×), most cells appeared with moderate density, focal hyperplasia, and stroma within the focal lymphocytic infiltration; at high magnification (200 × and 400 ×), the tumor cells were arranged as an acinar structure and accessory wall structure; most cells were observed to be medium sized, the nuclear chromatin was pale and homogeneous, and cilia were seen. The focal nucleus was enlarged and atypical (Figure 4). TTF-1 was positive; the results for P63 and CK5/6 staining were the same, and only basal cells were seen in the hyperplasia area. CD34 was present in the alveolar structure, and the Ki-67 index was low (Figure 5).

Genetic testing

Genetic tests were performed using the patients' DNA samples to check for mutations in EGFR, ALK, ROS1, KRAS, PIK3CA, BRAF, HER2, RET, and NRAS genes. No gene mutations were detected in case 1, while HER2 gene mutation was detected in case 2.

FINAL DIAGNOSIS

Based on the histological characteristics and results of immunohistochemical staining, the two patients were diagnosed as having BA with unusual presentation.

TREATMENT

Complete wedge resection was performed at the Thoracic Surgery Department of Liaocheng People's Hospital.

OUTCOME AND FOLLOW-UP

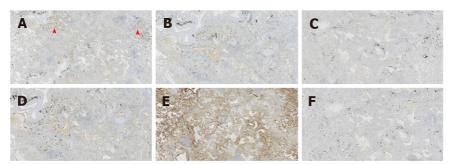
After surgical resection, neither patient received radiotherapy or chemotherapy. At the time of writing this report, which is 11 and 12 mo postoperatively for the two patients, respectively, both of them have recovered well without signs of disease.

DISCUSSION

In 2018, BA was proposed by Chang *et al*[2] as a new type of lung tumor, defined as a group of pulmonary tumors that could be benign or have a potential for malignant transformation depending on the epithelial cell composition of the bronchiolar anatomy. These include classic CMPT and non-classic CMPT, which differ according to histological aspects. BAs can be further divided into proximal (similar to proximal bronchioles) and distal (similar to respiratory bronchioles) types based on the histomorphology (comparing histological features of different grades of bronchial epithelial cells and their similarity with the bronchioles) and immunohistochemical characteristics. Proximal-type BAs comprise numerous prominent mucinous cells and are well defined with ciliated cells and intact basal layer cells that are arranged in a papillary or flattened pattern. Conversely, the distal form usually shows a flattened pattern and comprises few mucinous cells, cubic cells, and/or ciliated cells. Although there is some overlap between the characteristics of the two types, some lesions may lack one or both of these components. Zheng et al[4] reported that mucinous and papillary components are usually present throughout classic CMPTs but may be absent in their "non-classic" counterparts. Furthermore, Shao et al [3] also found mixed-type BAs with monolayered lesions[2,4,11].

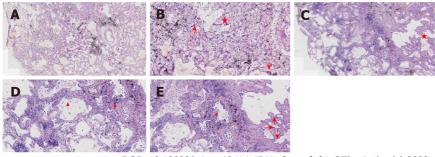
In this study, two very rare cases of BAs comprising mucinous cells are reported. The cell arrangement observed showed a flattened pattern, indicating the distal type of BA. Although tumor cells formed an adenoid or papillary structure, the ciliary structure could be seen locally in lumen cells.





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Figure 3 Immunohistochemical staining in case 1. Thyroid transcription factor 1 was expressed in bronchioles and the surrounding tumor glands, with the only difference being intensity. The results of P40, P63, and cytokeratin 5/6 staining were the same, and positive staining was detected only in the bilayer structures of the tumor. Collagen IV staining showed the presence of alveolar structure, and the Ki-67 index was low. A: Thyroid transcription factor 1; B: P40; C: Cytokeratin 5/6; D: P63; E: Collagen IV; F: Ki-67.



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Figure 4 Pathological features of case 2. A: At low magnification (100 ×, frozen section), the boundary of the tumor was relatively clear; there were air cavities and arterioles were visible; B: At high magnification (200 ×, frozen section), the tumor cells were found to be mainly arranged in a monolayer with locally visible cilia (arrows); some nuclei appeared enlarged and atypical (star); C: At low magnification (100 ×), most cells appeared with moderate density (star), focal hyperplasia, and stroma within the focal lymphocytic infiltration; D and E: Observations at medium to high magnification (200 × and 400 ×, respectively) revealed that the tumor cells were arranged as an acinar structure and accessory wall structure; most cells were not atypia in shape, and cilia (arrow) were seen. Some nuclei were enlarged and atypical (circle).

Many studies have reported that the ciliary structure in lumen cells can distinguish this type of tumor from an adenocarcinoma, which is an important characteristic to help differentiate between the two tumor types[12]. However, in the two current cases, not every lumen cell had cilia, and the basal cells could not be easily observed, thus causing some difficulties in diagnosis, particularly when the specimen was frozen. Therefore, interpretations should be made considering both atypia of cells and their arrangement. In our two cases, most cells were loosely arranged, the morphology of glandular epithelial cells was not atypical, and the cytoplasm of local cells was transparent. Few intranuclear inclusion bodies were seen under a high-power microscope; this finding, together with a marginally increased nucleoplasmic ratio, suggested that the lesion was benign.

In the second case, atypic cells and the absence of the entire lesion's bilayer structure complicated the diagnosis. However, these lesions were different from adenocarcinoma *in situ* (AIS) and invasive adenocarcinoma. The tumor cells of AIS comprise type II alveolar epithelial cells and/or Clara cells, which grow along the original alveolar wall without destroying the alveolar structure. In this case, ciliated columnar cells or mucinous cells were rarely present, and cell atypia was more pronounced than that in BA. The boundary of invasive adenocarcinoma is not discernible, the alveolar structure is destroyed, and the growth is rapid. In addition, the micropapillary structure can be seen in the lumen and necrosis is visible, cell atypia is evident, and nuclear cleavage is widely observed[2-4].

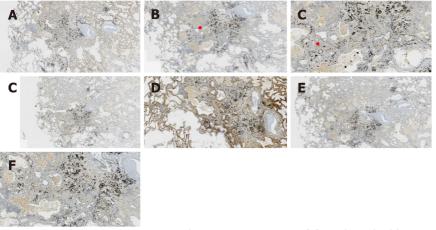
Wang *et al*[13] considered BA as a kind of tumor associated with bronchioles, and bronchiole involvement can be found in almost all BAs. Upon careful observation, we also found the tumor to have expanded from bronchioles to the surrounding alveolar walls. Meanwhile, we also observed the pulmonary lobular artery and bronchioles in local ares in these two cases; this formed a relatively robust basis for our diagnosis.

In typical morphologic cases, the double-layer structure is obvious, and ciliary cells and mucous cells are clearly recognizable on the lumen surface, eliminating the need for immunohistochemical examination. However, in our two cases, it was difficult to judge whether the basal cells were present, thus warranting immunohistochemical staining to visualize the tissue structure and cell type. In case 1,

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Table 1 Comparison of previously reported bronchiolar adenomas with the present two cases								
Cases characteristic	Previous bronchiolar adenoma	Case 1	Case 2					
Cellular atypia	No	No	Local atypical					
Immunohistochemistry (basal cell display)	Constant continuous existence	Basal cells mostly absent	Basal cells mostly absent; present in cellular atypia					
Genetic testing	EGFR and BRAF gene mutations	None	HER2 gene mutation					

EGFR: Epidermal growth factor receptor; HER2: Human epidermal growth factor receptor-2.



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Figure 5 Immunohistochemical staining in case 2. Thyroid transcription factor 1 was positive; the results for P63 and CK5/6 staining were the same, and only basal cells were shown in the hyperplasia area. CD34 showed the presence of alveolar structure, and the Ki-67 index was low. A: Thyroid transcription factor 1; B: P63; C: Cytokeratin 5/6; D: CD34; E: Ki-67; F: P53.

P40, P63, and CK5/6 were detected only in local areas. Whereas in case 2, P63 and CK5/6 were expressed only in atypical cells, confounding our diagnosis. Many reports have indicated that the double-layer structure is essential in the diagnosis of BA; however, based on our understanding of the current cases and review of the related literature, we call these two lesions as monolayer BA lesions[14, 15].

The presence of cellular atypia and the lack of the basal cell layer in monolayer BA lesions suggest their potential to transform into malignant tumors. These findings may reflect the continuous malignant transformation process of benign adenomas of the bronchial epithelium. Further large-scale studies of similar cases are required to investigate whether monolayer BA lesions are accompanied by atypical bronchiolar epithelial hyperplasia, whether they are precancerous lesions and are similar to the atypical hyperplasia of the breast, and whether they will eventually become AIS or even invasive adenocarcinoma[15].

Although the distal type of bronchial adenoma typically has cilia and can be found to extend with normal bronchioles, these characteristics are not easy to observe on intraoperative frozen sections[6,16, 17]. The evaluation of the differentiation of bronchial adenoma and cancer requires immunohistochemistry-assisted diagnosis, which is not currently performed during the operation. Therefore, performing a differential diagnosis of bronchial adenoma and carcinoma using intraoperative frozen sections during operation is difficult and challenging.

Although some studies have reported that ill-defined peripheral opacity and pseudocavities of a ground-glass lung nodule on CT differentiate BA from AIS or minimally invasive adenocarcinoma[18], these aspects are not absolute. Thus, they provide some hints, but more comprehensive findings are required for differentiation of these lesions.

Kamata *et al*[19] identified cancer-driving gene mutations in CMPT, supporting the notion that these lesions are neoplastic rather than reactive or metaplastic. Unlike previous studies that primarily focused on EGFR and BRAF genes[5-9,20], we evaluated nine genes associated with susceptibility to BAs. Case 1 was negative for mutations in all genes. In case 2, HER2 gene mutation was found. Given the small number of samples in this case report, the significance of HER2 gene mutation needs to be further studied in a larger number of samples.

CONCLUSION

The results of our two cases are shown in Table 1. Although no meaningful conclusions could be drawn, these findings encourage further work using a larger sample size with control cases for better comparison. The current two cases have monolayer BA lesions. Some unresolved questions remain to be answered to determine whether the lesion is a benign adenoma or part of the process of malignant transformation from benign adenoma of the bronchial epithelium. Furthermore, whether the lesions with atypical bilayer structures are similar to atypical hyperplastic lesions of the breast remains to be elucidated. In addition, whether these lesions can be called atypical BA and whether they are invasive precursor lesions need to be evaluated. Finally, future studies should examine whether HER2 gene mutation has diagnostic significance as a prognostic indicator in BA.

Regardless of whether BA is benign or potentially malignant, simple surgical resection is the best choice for patient management. However, to determine BA, it is very important to use intraoperative frozen sections. Performing a differential diagnosis of bronchial adenoma and carcinoma using intraoperative frozen sections while the operation is underway is difficult and challenging. Hence, further study of this disease with a larger sample size and controls is required to draw meaningful conclusions.

FOOTNOTES

Author contributions: Du Y contributed to the conception and design, data analysis and interpretation, and manuscript writing; Du R contributed to the administrative support; Wang ZY and Wang XY contributed to the provision of study materials or patients; Du Y, Zheng Z, and Li YX contributed to the collection and assembly of data; and all authors have read and approved the final manuscript.

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REFERENCES

- IASLC News. The New WHO Classification of Lung Tumors. [cited 15 July 2021]. Available from: 1 https://www.ilcn.org/the-new-who-classification-of-lung-tumors/
- Chang JC, Montecalvo J, Borsu L, Lu S, Larsen BT, Wallace WD, Sae-Ow W, Mackinnon AC, Kim HR, Bowman A, 2 Sauter JL, Arcila ME, Ladanyi M, Travis WD, Rekhtman N. Bronchiolar Adenoma: Expansion of the Concept of Ciliated Muconodular Papillary Tumors With Proposal for Revised Terminology Based on Morphologic, Immunophenotypic, and Genomic Analysis of 25 Cases. Am J Surg Pathol 2018; 42: 1010-1026 [PMID: 29846186 DOI: 10.1097/PAS.0000000000001086
- 3 Shao K, Wang Y, Xue Q, Mu J, Gao Y, Wang B, Zhou L, Gao S. Clinicopathological features and prognosis of ciliated muconodular papillary tumor. J Cardiothorac Surg 2019; 14: 143 [PMID: 31340823 DOI: 10.1186/s13019-019-0962-3]
- Zheng Q, Luo R, Jin Y, Shen X, Shan L, Shen L, Hou Y, Li Y. So-called "non-classic" ciliated muconodular papillary tumors: a comprehensive comparison of the clinicopathological and molecular features with classic ciliated muconodular papillary tumors. Hum Pathol 2018; 82: 193-201 [PMID: 30092236 DOI: 10.1016/j.humpath.2018.07.029]
- 5 Kamata T, Sunami K, Yoshida A, Shiraishi K, Furuta K, Shimada Y, Katai H, Watanabe S, Asamura H, Kohno T, Tsuta K. Frequent BRAF or EGFR Mutations in Ciliated Muconodular Papillary Tumors of the Lung. J Thorac Oncol 2016; 11: 261-265 [PMID: 26718882 DOI: 10.1016/j.jtho.2015.10.021]



- 6 Chu HH, Park SY, Cha EJ. Ciliated muconodular papillary tumor of the lung: The risk of false-positive diagnosis in frozen section. Hum Pathol Case Rep 2017; 7: 8-10 [DOI: 10.1016/j.ehpc.2015.08.003]
- Kim L, Kim YS, Lee JS, Choi SJ, Park IS, Han JY, Kim JM, Chu YC. Ciliated muconodular papillary tumor of the lung harboring BRAF V600E mutation and p16^{INK4a} overexpression without proliferative activity may represent an example of oncogene-induced senescence. J Thorac Dis 2017; 9: E1039-E1044 [PMID: 29312762 DOI: 10.21037/jtd.2017.11.120]
- 8 Liu L, Aesif SW, Kipp BR, Voss JS, Daniel S, Aubry MC, Boland JM. Ciliated Muconodular Papillary Tumors of the Lung Can Occur in Western Patients and Show Mutations in BRAF and AKT1. Am J Surg Pathol 2016; 40: 1631-1636 [PMID: 27454941 DOI: 10.1097/PAS.0000000000000707]
- Udo E, Furusato B, Sakai K, Prentice LM, Tanaka T, Kitamura Y, Tsuchiya T, Yamasaki N, Nagayasu T, Nishio K, 9 Fukuoka J. Ciliated muconodular papillary tumors of the lung with KRAS/BRAF/AKT1 mutation. Diagn Pathol 2017; 12: 62 [PMID: 28830562 DOI: 10.1186/s13000-017-0651-2]
- 10 Kataoka T, Okudela K, Matsumura M, Mitsui H, Suzuki T, Koike C, Sawazumi T, Umeda S, Tateishi Y, Yamanaka S, Ishikawa Y, Arai H, Tajiri M, Ohashi K. A molecular pathological study of four cases of ciliated muconodular papillary tumors of the lung. Pathol Int 2018; 68: 353-358 [PMID: 29624782 DOI: 10.1111/pin.12664]
- Chuang HW, Liao JB, Chang HC, Wang JS, Lin SL, Hsieh PP. Ciliated muconodular papillary tumor of the lung: a newly 11 defined peripheral pulmonary tumor with conspicuous mucin pool mimicking colloid adenocarcinoma: a case report and review of literature. Pathol Int 2014; 64: 352-357 [PMID: 25047506 DOI: 10.1111/pin.12179]
- 12 Wang Z, Song L, Ye Y, Li W. Long Noncoding RNA DIO3OS Hinders Cell Malignant Behaviors of Hepatocellular Carcinoma Cells Through the microRNA-328/Hhip Axis. Cancer Manag Res 2020; 12: 3903-3914 [PMID: 32547226 DOI: 10.2147/CMAR.S245990]
- Wang EH. Bronchiolar adenoma: a benign tumor easily confused with cancer. Chin J Pathol 2019; 48 (6): 425-432 [DOI: 13 10.3760/cma.j.issn.0529-5807.2019.06.001]
- 14 Shao J, Yin JC, Bao H, Zhao R, Han Y, Zhu L, Wu X, Shao Y, Zhang J. Morphological, immunohistochemical, and genetic analyses of bronchiolar adenoma and its putative variants. J Pathol Clin Res 2021; 7: 287-300 [PMID: 33400370 DOI: 10.1002/cip2.1971
- 15 Zhang J, Shao JC, Han YC. Some problems in pathological diagnosis of bronchiolitis adenoma. Chin J Pathol 2020; 49 (6): 529-533 [DOI: 10.3760/cma.j.cn112151-20190821-00459]
- 16 Han X, Hao J, Ding S, Wang EH, Wang L. Bronchiolar Adenoma Transforming to Invasive Mucinous Adenocarcinoma: A Case Report. Onco Targets Ther 2021; 14: 2241-2246 [PMID: 33833523 DOI: 10.2147/OTT.S299864]
- 17 Shirsat H, Zhou F, Chang JC, Rekhtman N, Saqi A, Argyropoulos K, Azour L, Simms A, Melamed J, Hung YP, Roden AC, Mino-Kenudson M, Moreira AL, Narula N. Bronchiolar Adenoma/Pulmonary Ciliated Muconodular Papillary Tumor. Am J Clin Pathol 2021; 155: 832-844 [PMID: 33313677 DOI: 10.1093/ajcp/agaa194]
- Cao L, Wang Z, Gong T, Wang J, Liu J, Jin L, Yuan Q. Discriminating between bronchiolar adenoma, adenocarcinoma in 18 situ and minimally invasive adenocarcinoma of the lung with CT. Diagn Interv Imaging 2020; 101: 831-837 [PMID: 32482582 DOI: 10.1016/j.diii.2020.05.005]
- Kamata T, Yoshida A, Kosuge T, Watanabe S, Asamura H, Tsuta K. Ciliated muconodular papillary tumors of the lung: a 19 clinicopathologic analysis of 10 cases. Am J Surg Pathol 2015; 39: 753-760 [PMID: 25803171 DOI: 10.1097/PAS.000000000000414]
- Gao H, Du XL, Chen CN, Song GX, Gu YL, Li HX. [Bronchiolar adenoma: a clinicopathological analysis of 15 cases]. 20 Zhonghua Bing Li Xue Za Zhi 2020; 49: 556-561 [PMID: 32486532 DOI: 10.3760/cma.j.cn112151-20191125-00755]





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