Remarques

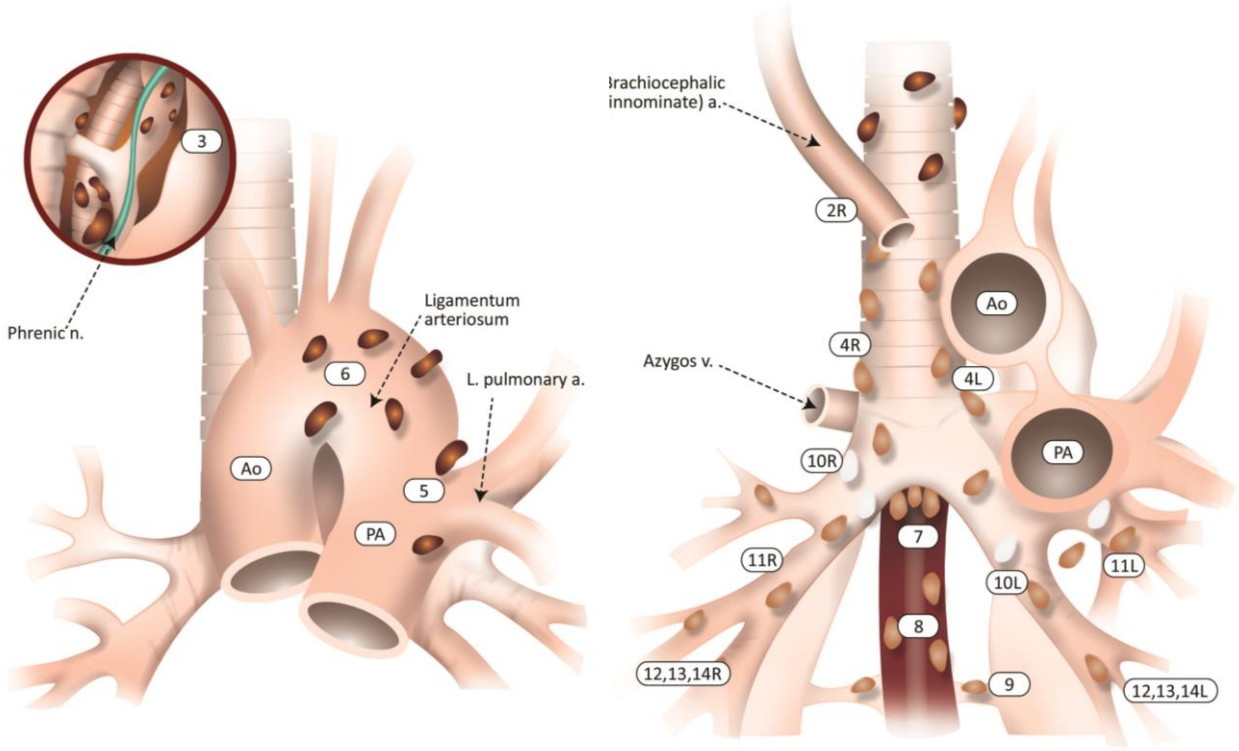
- La classification TNM est une classification clinique.
- En post-opératoire, avec les données anatomopathologiques, les patients sont reclassés en pTNM suivant les mêmes critères que précédemment.
- Après traitement d'induction, les patients sont reclassés en ypTNM suivant les mêmes critères que précédemment.

CLASSIFICATION PAR STADE

Carcinome occulte	Tx N0 M0
Stade 0	Tis N0 M0
Stade IA-1	T1a(mi) N0 M0
	T1a N0 M0
Stade IA-2	T1b N0 M0
Stade IA-3	T1c N0 M0
Stade IB	T2a N0 M0
Stade IIA	T2b N0 M0
Stade IIB	T1,2 N1 M0
	T3 N0 M0
Stade IIIA	T1,2 N2, M0
	T3 N1 M0
	T4 N0,1 M0
Stade IIIB	T1,2 N3 M0
	T3,4 N2 M0
Stade IIIC	T3,4 N 3 M0
Stade IV-A	Tout M1a
	Tout M1b
Stade IV-B	Tout M1c

	N0	N1	N2	N3	M1a-b *Tout N*	M1c *Tout N*
T1a	IA-1	IIB	IIIA	IIIB	IV-A	IV-B
T1b	IA-2	IIB	IIIA	IIIB	IV-A	IV-B
T1c	IA-3	IIB	IIIA	IIIB	IV-A	IV-B
T2a	IB	IIB	IIIA	IIIB	IV-A	IV-B
T2b	IIA	IIB	IIIA	IIIB	IV-A	IV-B
T3	IIB	IIIA	IIIB	IIIC	IV-A	IV-B
T4	IIIA	IIIA	IIIB	IIIC	IV-A	IV-B

Figure 1 – 8ème classification TNM du cancer du poumon
Les TisN0M0 correspondent au stade 0 - Les T1a(mi)N0M0 correspondent à un stade IA-1



2 R- 4R	chaîne paratrachéale droite
2L-4L	chaîne paratrachéale gauche
5	ganglions sous-aortiques
6	ganglions para-aortiques
7	ganglions intertrachéobronchiques
8	ganglions latéro-œsophagiens
9	ganglions du ligament triangulaire
10-11	ganglions intrapulmonaires et extra-lobaires
12-13-14	ganglions intra-lobaires

Figure 2 – Anatomie descriptive des ganglions lymphatiques médiastinaux. (7)

REFERENCES

1. Travis WD, World Health Organization, International Agency for Research on Cancer, International Association for the Study of Lung Cancer, International Academy of Pathology, editors. Pathology and genetics of tumours of the lung, pleura, thymus and heart. Lyon : Oxford: IARC Press, Oxford University Press (distributor); 2004. 344 p. (World Health Organization classification of tumours).
2. Fishback NF, Travis WD, Moran CA, Guinee DG, McCarthy WF, Koss MN. Pleomorphic (spindle/giant cell) carcinoma of the lung. A clinicopathologic correlation of 78 cases. Cancer. 1994 Jun 15;73(12):2936–45.
3. Rossi G, Cavazza A, Sturm N, Migaldi M, Facciolongo N, Longo L, et al. Pulmonary carcinomas with pleomorphic, sarcomatoid, or sarcomatous elements: a clinicopathologic and immunohistochemical study of 75 cases. Am J Surg Pathol. 2003 Mar;27(3):311–24.
4. Nakajima M, Kasai T, Hashimoto H, Iwata Y, Manabe H. Sarcomatoid carcinoma of the lung: a clinicopathologic study of 37 cases. Cancer. 1999 Aug 15;86(4):608–16.
5. Pelosi G, Sonzogni A, De Pas T, Galetta D, Veronesi G, Spaggiari L, et al. Review article: pulmonary sarcomatoid carcinomas: a practical overview. Int J Surg Pathol. 2010 Apr;18(2):103–20.
6. Goldstraw P, Chansky K, Crowley J, Rami-Porta R, Asamura H, Eberhardt WEE, et al. The IASLC Lung Cancer Staging Project: Proposals for Revision of the TNM Stage Groupings in the Forthcoming (Eighth) Edition of the TNM Classification for Lung Cancer. J Thorac Oncol Off Publ Int Assoc Study Lung Cancer. 2016 Jan;11(1):39–51.
7. Eberhardt WEE, Mitchell A, Crowley J, Kondo H, Kim YT, Turrisi A, et al. The IASLC Lung Cancer Staging Project: Proposals for the Revision of the M Descriptors in the Forthcoming Eighth Edition of the TNM Classification of Lung Cancer. J Thorac Oncol Off Publ Int Assoc Study Lung Cancer. 2015 Nov;10(11):1515–22.
8. Herman DL, Bullock WK, Waken JK. Giant cell adenocarcinoma of the lung. Cancer. 1966 Oct;19(10):1337–46.
9. Davis MP, Eagan RT, Weiland LH, Pairolero PC. Carcinosarcoma of the lung: Mayo Clinic experience and response to chemotherapy. Mayo Clin Proc. 1984 Sep;59(9):598–603.
10. Ginsberg SS, Buzaid AC, Stern H, Carter D. Giant cell carcinoma of the lung. Cancer. 1992 Aug 1;70(3):606–10.
11. Nappi O, Glasner SD, Swanson PE, Wick MR. Biphasic and monophasic sarcomatoid carcinomas of the lung. A reappraisal of “carcinosarcomas” and “spindle-cell carcinomas.” Am J Clin Pathol. 1994 Sep;102(3):331–40.
12. Ro JY, Chen JL, Lee JS, Sahin AA, Ordóñez NG, Ayala AG. Sarcomatoid carcinoma of the lung. Immunohistochemical and ultrastructural studies of 14 cases. Cancer. 1992 Jan 15;69(2):376–86.
13. Chang YL, Lee YC, Shih JY, Wu CT. Pulmonary pleomorphic (spindle) cell carcinoma: peculiar clinicopathologic manifestations different from ordinary non-small cell carcinoma. Lung Cancer Amst Neth. 2001 Oct;34(1):91–7.
14. Cabarcos A, Gomez Dorronsoro M, Lobo Beristain JL. Pulmonary carcinosarcoma: a case study and review of the literature. Br J Dis Chest. 1985 Jan;79(1):83–94.
15. Moon KC, Lee GK, Yoo S-H, Jeon YK, Chung J-H, Han J, et al. Expression of caveolin-1 in pleomorphic carcinoma of the lung is correlated with a poor prognosis. Anticancer Res. 2005 Dec;25(6C):4631–7.
16. Raveglia F, Mezzetti M, Panigalli T, Furia S, Giuliani L, Conforti S, et al. Personal experience in surgical management of pulmonary pleomorphic carcinoma. Ann Thorac Surg. 2004 Nov;78(5):1742–7.
17. Lee HJ, Goo JM, Kim KW, Im J-G, Kim J-H. Pulmonary blastoma: radiologic findings in five patients. Clin Imaging. 2004 Apr;28(2):113–8.
18. Robert J, Pache J-C, Seium Y, de Perrot M, Spiliopoulos A. Pulmonary blastoma: report of five cases and identification of clinical features suggestive of the disease. Eur J Cardio-Thorac Surg Off J Eur Assoc Cardio-Thorac Surg. 2002 Nov;22(5):708–11.
19. Razzuk MA, Urschel HC, Albers JE, Martin JA, Paulson DL. Pulmonary giant cell carcinoma. Ann Thorac Surg. 1976 Jun;21(6):540–5.
20. Shin MS, Jackson LK, Shelton RW, Greene RE. Giant cell carcinoma of the lung. Clinical and roentgenographic manifestations. Chest. 1986 Mar;89(3):366–9.
21. Pelosi G, Fraggetta F, Nappi O, Pastorino U, Maisonneuve P, Pasini F, et al. Pleomorphic carcinomas of the lung show a selective distribution of gene products involved in cell differentiation, cell cycle control, tumor

growth, and tumor cell motility: a clinicopathologic and immunohistochemical study of 31 cases. Am J Surg Pathol. 2003 Sep;27(9):1203–15.
22. Girard N, al. Oncologie orpheline thoracique : carcinomes pléiomorphes, sarcomatoïdes, ou avec éléments sarcomateux. Abstr Rev Mal Respir. 2007;(24):1S88.
23. Holst VA, Finkelstein S, Colby TV, Myers JL, Yousem SA. p53 and K-ras mutational genotyping in pulmonary carcinosarcoma, spindle cell carcinoma, and pulmonary blastoma: implications for histogenesis. Am J Surg Pathol. 1997 Jul;21(7):801–11.
24. Blaukovitsch M, Halbwedl I, Kothmaier H, Gogg-Kammerer M, Popper HH. Sarcomatoid carcinomas of the lung--are these histogenetically heterogeneous tumors? Virchows Arch Int J Pathol. 2006 Oct;449(4):455–61.
25. Yendamuri S, Caty L, Pine M, Adem S, Bogner P, Miller A, et al. Outcomes of sarcomatoid carcinoma of the lung: a Surveillance, Epidemiology, and End Results Database analysis. Surgery. 2012 Sep;152(3):397–402.
26. Mochizuki T, Ishii G, Nagai K, Yoshida J, Nishimura M, Mizuno T, et al. Pleomorphic carcinoma of the lung: clinicopathologic characteristics of 70 cases. Am J Surg Pathol. 2008 Nov;32(11):1727–35.
27. Shi B, Gaebelein G, Hildebrandt B, Weichert W, Glanemann M. Adult jejunojejunal intussusception caused by metastasized pleomorphic carcinoma of the lung: report of a case. Surg Today. 2009;39(11):984–9.
28. Ito K, Oizumi S, Fukumoto S, Harada M, Ishida T, Fujita Y, et al. Clinical characteristics of pleomorphic carcinoma of the lung. Lung Cancer Amst Neth. 2010 May;68(2):204–10.
29. Cheran SK, Nielsen ND, Patz EF. False-negative findings for primary lung tumors on FDG positron emission tomography: staging and prognostic implications. AJR Am J Roentgenol. 2004 May;182(5):1129–32.
30. Park JS, Lee Y, Han J, Kim HK, Choi YS, Kim J, et al. Clinicopathologic outcomes of curative resection for sarcomatoid carcinoma of the lung. Oncology. 2011;81(3–4):206–13.
31. Koss MN, Hochholzer L, O'Leary T. Pulmonary blastomas. Cancer. 1991 May 1;67(9):2368–81.
32. Girard N, al. Lymphoma, Lymphoproliferative Diseases, and Other Primary Malignant Tumors. Fifth edition. Philadelphia, PA: Elsevier Saunders; 2009. (Mason RJ, Broaddus VC, Murray JF, Nadel JA. Murray and Nadel's textbook of respiratory medicine.).
33. Chaft JE, Sima CS, Ginsberg MS, Huang J, Kris MG, Travis WD, et al. Clinical outcomes with perioperative chemotherapy in sarcomatoid carcinomas of the lung. J Thorac Oncol Off Publ Int Assoc Study Lung Cancer. 2012 Sep;7(9):1400–5.
34. Ung M, Rouquette I, Filleron T, Taillandy K, Brouchet L, Bennouna J, et al. Characteristics and Clinical Outcomes of Sarcomatoid Carcinoma of the Lung. Clin Lung Cancer. 2016 Sep;17(5):391–7.
35. Karim NA, Schuster J, Eldessouki I, Gaber O, Namad T, Wang J, et al. Pulmonary sarcomatoid carcinoma: University of Cincinnati experience. Oncotarget. 2018 Jan 9;9(3):4102–8.
36. Vieira T, Girard N, Ung M, Monnet I, Cazes A, Bonnette P, et al. Efficacy of first-line chemotherapy in patients with advanced lung sarcomatoid carcinoma. J Thorac Oncol Off Publ Int Assoc Study Lung Cancer. 2013 Dec;8(12):1574–7.
37. Terra SB, Jang JS, Bi L, Kipp BR, Jen J, Yi ES, et al. Molecular characterization of pulmonary sarcomatoid carcinoma: analysis of 33 cases. Mod Pathol Off J U S Can Acad Pathol Inc. 2016;29(8):824–31.
38. Forest F, Yvorel V, Karpathiou G, Stachowicz M-L, Vergnon J-M, Fournel P, et al. Histomolecular profiling of pleomorphic, spindle cell, and giant cell carcinoma of the lung for targeted therapies. Hum Pathol. 2016 Mar;49:99–106.
39. Domblides C, Leroy K, Monnet I, Mazières J, Barlesi F, Gounant V, et al. Efficacy of Immune Checkpoint Inhibitors in Lung Sarcomatoid Carcinoma. J Thorac Oncol Off Publ Int Assoc Study Lung Cancer. 2020 Jan 25;
40. D'Antonio F, De Sanctis R, Bolengo I, Destro A, Rahal D, De Vincenzo F, et al. Pulmonary sarcomatoid carcinoma presenting both ALK rearrangement and PD-L1 high positivity: A case report on the therapeutic regimen. Medicine (Baltimore). 2019 Aug;98(32):e16754.
41. Maneenil K, Xue Z, Liu M, Boland J, Wu F, Stoddard SM, et al. Sarcomatoid Carcinoma of the Lung: The Mayo Clinic Experience in 127 Patients. Clin Lung Cancer. 2018 May;19(3):e323–33.
42. Attanoos RL, Papagiannis A, Suttinont P, Goddard H, Papotti M, Gibbs AR. Pulmonary giant cell carcinoma: pathological entity or morphological phenotype? Histopathology. 1998 Mar;32(3):225–31.
43. Terrettaz E, Frey J-G, Chavaillaz O. [Pulmonary blastoma in adults]. Rev Médicale Suisse. 2007 Feb 21;3(99):470–2, 474–6.
44. Larsen H, Sørensen JB. Pulmonary blastoma: a review with special emphasis on prognosis and treatment. Cancer Treat Rev. 1996 May;22(3):145–60.

45. Novotny JE, Huiras CM. Resection and adjuvant chemotherapy of pulmonary blastoma: a case report. Cancer. 1995 Nov 1;76(9):1537–9.
46. Saint-Georges F, Terrier P, Sabourin JC, Bonvalot S, De Montpreville V, Ruffie P. [Pulmonary carcinosarcoma with jejunal metastasis: complete response to chemotherapy]. Rev Pneumol Clin. 2002 Sep;58(4 Pt 1):249–52.
47. Hill DA, Sadeghi S, Schultz MZ, Burr JS, Dehner LP. Pleuropulmonary blastoma in an adult: an initial case report. Cancer. 1999 Jun 1;85(11):2368–74.
48. Cutler CS, Michel RP, Yassa M, Langleben A. Pulmonary blastoma: case report of a patient with a 7-year remission and review of chemotherapy experience in the world literature. Cancer. 1998 Feb 1;82(3):462–7.
49. Liman ST, Altinok T, Topcu S, Tastepe AI, Uzar A, Demircan S, et al. Survival of biphasic pulmonary blastoma. Respir Med. 2006 Jul;100(7):1174–9.
50. Mainwaring MG, Poor C, Zander DS, Harman E. Complete remission of pulmonary spindle cell carcinoma after treatment with oral germanium sesquioxide. Chest. 2000 Feb;117(2):591–3.
51. Francis D, Jacobsen M. Pulmonary blastoma. Curr Top Pathol Ergeb Pathol. 1983;73:265–94.
52. Bini A, Ansaloni L, Grani G, Grazia M, Pagani D, Stella F, et al. Pulmonary blastoma: report of two cases. Surg Today. 2001;31(5):438–42.
53. Asimakopoulos G, Krausz T, Smith PL. Radical resection of a pulmonary blastoma involving the mediastinum. Thorac Cardiovasc Surg. 1999 Jun;47(3):197–9.
54. Chaugle H, Sivardeen KA, Benbow EW, Keenan DJ. Pulmonary blastoma. Eur J Cardio-Thorac Surg Off J Eur Assoc Cardio-Thorac Surg. 1998 May;13(5):615–6.
55. LeMense GP, Reed CE, Silvestri GA. Pulmonary blastoma: a rare lung malignancy. Lung Cancer Amst Neth. 1996 Sep;15(2):233–7.
56. Force S, Patterson GA. Clinical-pathologic conference in general thoracic surgery: pulmonary blastoma. J Thorac Cardiovasc Surg. 2003 Nov;126(5):1247–50.
57. Ohara N, Tominaga O, Oka T, Motoi R, Nakano H, Muto T. Pulmonary blastoma: report of a case. Surg Today. 1999;29(4):385–8.
58. Surmont VF, van Klaveren RJ, Nowak PJCM, Zondervan PE, Hoogsteden HC, van Meerbeeck JP. Unexpected response of a pulmonary blastoma on radiotherapy: a case report and review of the literature. Lung Cancer Amst Neth. 2002 May;36(2):207–11.
59. Indolfi P, Casale F, Carli M, Bisogno G, Ninfo V, Cecchetto G, et al. Pleuropulmonary blastoma: management and prognosis of 11 cases. Cancer. 2000 Sep 15;89(6):1396–401.
60. Hastürk S, Erdoğan Y, Ozyildirim A, Cakir E, Teke Y. Combined chemotherapy and radiotherapy in advanced pulmonary blastoma. Thorax. 1995 May;50(5):591–2.