Pre-analytical phase challenges in gastric, prostate and lung cancer

70% of issues within the tissue sample workflow occur during the pre-analytic phase¹. These issues reduce the success of molecular profiling and immunochemistry, negatively impacting patient care and result in increased costs for healthcare systems¹.



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References

- 1. Compton CC, Robb JA, Anderson MW, et al. Preanalytics and Precision Pathology: Pathology Practices to Ensure Molecular Integrity of Cancer Patient Biospecimens for Precision Medicine. Arch Pathol Lab Med. 2019;143(11):1346-1363.
- 2. Cree IA, Deans Z, Ligtenberg MJL, et al. Guidance for laboratories performing molecular pathology for cancer patients. J Clin Pathol.
- 2014;67(11):923-931.
 Keppens C, van Royen Y, Brysse A, et al. Incidents in Molecular Pathology: Frequency and Causes During Routine Testing. Arch Pathol Lab Med. 2021;145(10):1270-1279.
- 4. Kerr KM, Bubendorf L, Lopez-Rios F, et al. Optimizing tissue stewardship in non-small cell lung cancer to support molecular characterization and treatment selection: statement from a working group of thoracic pathologists. Histopathology. 2024;84(3):429-439.
- 5. Lott R, Tunnicliffe J, Sheppard E, et al. Practical Guide to Specimen Handling in Surgical Pathology. College of American Pathologist. 2023.
- 6. Susman S, Berindan-Neagoe I, Petrushev B, Pirlog R, Florian IS, Mihu CM, Berce C, Craciun L, Grewal R, Tomuleasa C. The role of the pathology department in the preanalytical phase of molecular analyses. Cancer Manag Res. 2018; 10:745-753.