

Table 4 The detail information of cases with mismatched results by next-generation sequencing (mNGS) and conventional testing.

Patient ID	Smear results	Culture results	Histopathology results	Other laboratory-based diagnostic testing results	mNGS	Clinical diagnosis of pulmonary disorders
NO.18	Negative	Negative	Interstitial fibrous tissue hyperplasia with inflammatory cell infiltration	<i>Cryptococcus neoformans capsular polysaccharide</i> (+) <i>Cryptococcus neoformans capsular polysaccharide antigen</i> (+)	<i>Klebsiella pneumoniae</i> , <i>Pseudomonas aeruginosa</i> , <i>Haemophilus parainfluenzae</i> , <i>Aspergillus fumigatus</i>	Pulmonary infection
NO.23	Gram-positive cocci	<i>Candida albican</i>	Alveolar septal fibrous tissue hyperplasia, scattered inflammatory cell infiltration	Negative	<i>Klebsiella pneumoniae</i> , <i>Human cytomegalovirus</i> , <i>Rhizomucor pusillus</i>	Pulmonary infection
NO.27	Gram-positive cocci, Gram-negative bacilli	<i>Staphylococcus epidermidis</i>	Alveolar fibrous tissue hyperplasia	Negative	<i>Human cytomegalovirus</i> , <i>Pneumocystis jirovecii</i>	Pulmonary infection
NO.29	Negative	Negative	Inflammatory cell infiltration and interstitial fibrous tissue hyperplasia	GM test (+)	<i>Haemophilus parainfluenzae</i> , <i>Pseudomonas aeruginosa</i>	Pulmonary infection
NO.52	Negative	Negative	Alveolar septum widening,	GM test (+)	<i>Ralstonia insidiosa</i> ,	Pulmonary

			mild hyperplasia of interstitial fibrous tissue with lymphocytic infiltration		<i>Cryptococcus neoformans</i>	infection
NO.54	Negative	<i>Flavobacterium indologenes</i>	Alveolar septal fibrous tissue hyperplasia, lymphocyte and neutrophil infiltration	Negative	<i>Cryptococcus neoformans</i>	Pulmonary infection
