

Patient NO	mNGS	Number of unique reads	Relative abundance (%)	Coverage(%)	Conventional		PCR results	Comprehensive diagnosis	Categories
					Smear	Culture			
1	Klebsiella pneumoniae	2931	73.05	6.65	Gram-negative bacilli	Klebsiella pneumoniae	-	Klebsiella pneumoniae pneumonia	Definite
2	Oral Prevotella	1234	-	1.58	Negative	Negative	-	Tuberculosis	Definite
	Prevotella intermedia	490	-	0.6874					
	Micromonas parvum	857	-	2.89					
	Oral Peptostreptococcus	751	-	2.14					
	Anaerobic Digestive Streptococcus	8	-	0.0362					
	Campylobacter rectum	390	-	1.21					
	Campylobacter showa	40	-	0.2581					
	difficile	222	-	0.669					
	Gingivalis gingivalis	200	-	0.6813					
B. lentus	174	-	0.709						
3	Pseudomonas fluorescens	33	13.72	0.0345	Negative	Negative	-	Bacterial pneumonia	Probable
	Mycobacterium tuberculosis complex	11	4.07	-				Tuberculosis	Definite
4	Enterococcus faecium	18	0.14	0.0308	Negative	Negative	-	Bacterial pneumonia	+CMV Probable
	CMV	8312	99.04	57.74					
	EBV	14	0.24	0.9217					
5	Chlamydia psittaci	15	22.35	0.0721	Negative	Negative	-	Chlamydia pneumoniae	sp. Definite
	Actinomyces gravenis	5	3	0.0097					
	Campylobacter rectum	3	2.11	0.0068					
6	Gingivalis gingivalis	15	7.77	0.0334	Negative	Candida albicans	-	Bacterial pneumonia	Probable
	Actinomycetes of teeth	6	1.98	0.0085					
	Campylobacter simplex	5	3.03	0.0107					

	<i>Candida albicans</i>	168	47.09	0.0305					
7	<i>Haemophilus parainfluenzae</i>	14	2.12	0.0301	Negative	Negative	-	Bacterial pneumonia	Probable
	EBV	5	100	0.1005					
8	<i>Haemophilus parainfluenzae</i>	20	4.37	0.0384	Negative	Negative	-	Bacterial pneumonia	Probable
	<i>Pneumocystis jirovecii</i>	4	2.98	0.002				PCP	Definite
10	<i>Klebsiella aerogenes</i>	39090	10.45	30.31	Negative	Negative	-	Bacterial pneumonia	Probable
	<i>Haemophilus parainfluenzae</i>	5626	4.79	8.8					
	<i>Candida albicans</i>	4	2.11	0.0006					
11	<i>Actinomyces grivensis</i>	126270	18.89	76.98	Negative	Negative	-	Actinomycete pneumonia	Probable
	<i>Actinobacteria sticky</i>	1381	18.89	4.52					
	<i>Megacoccus</i>	10116	1.73	25.39					
12	<i>Haemophilus parainfluenzae</i>	16	1.64	0.0193	Negative	Negative	-	Bacterial pneumonia	Probable
13	<i>Tropheryma whipplei</i>	29	3.69	0.1343	Negative	Actinomycetes caries	-	<i>Tropheryma whipplei</i> pneumonia	Probable
14	<i>Haemophilus parainfluenzae</i>	4	2.52	0.006	Negative	Negative	-	Bacterial pneumonia	Probable
15	<i>Mycobacterium tuberculosis complex</i>	7	1.77	-	Negative	Negative	TB-DNA(+)	Tuberculosis	Definite
16	<i>Haemophilus parainfluenzae</i>	159	1.63	0.2693	Negative	Negative	TB-DNA(+)	Bacterial pneumonia	Probable
	<i>Mycobacterium tuberculosis complex</i>	1	0	-				Tuberculosis	Definite
17	<i>Actinomyces grivensis</i>	2778	1.33	7.22	Negative	Negative	-	Bacterial pneumonia	Probable
	Human alphaherpesvirus type 1	168	99.44	4.58					
18	Inhabiting <i>Prevotella</i>	11673	21.48	13.72	Negative	Negative	-	Bacterial pneumonia	Probable
	<i>Timon Prevotella</i>	141	0.49	0.2964					
	<i>Micromonas parvum</i>	10379	28.9	25.03					
19	<i>Klebsiella pneumoniae</i>	623	35.68	1.13	Negative	Negative	-	Bacterial pneumonia	Probable

20	Mycobacterium paracytogenes	45	14.02	0.1523	Negative	Aspergillus fumigat	-	Mycobacterium pneumonia	Probable
	Aspergillus fumigatus	4	7.95	0.0016				Aspergillus pneumonia	sp.
21	Streptococcus constellation	29	0.82	0.1035	Negative	Negative	-	Bacterial pneumonia	Probable
	Micromonas parvum	304	6.25	0.8775					
22	Dental actinomycetes	243	0.5	0.415	Negative	Negative	-	Bacterial pneumonia	Probable
	Actinomyces chlamydia	64	0.14	0.1109					
	Haemophilus	17	0.21	0.171					
	Listeria turbidites	962	3.16	2.59					
	EBV	122	57.38	2.71					
	CMV	15	5.31	0.2748					
	HHV-7	3	1.66	0.0891					
23	Actinomyces neisseri	92	2.81	0.2158	Negative	Negative	-	Bacterial pneumonia	Probable
	Actinomyces marseii	65	1.27	0.0973					
24	Actinomyces chlamydia	34	0.39	0.047	Negative	Negative	-	Bacterial pneumonia	Possible
	Goldella denitrificans	47	1.15	0.1392				Tuberculosis	Definite
	skardovii	24	0.63	0.0771					
	Mycobacterium tuberculosis complex	89	0.87	-					
25	Actinomyces chlamydia	3	0.2	0.0064	Negative	Negative	TB-DNA(+)	Tuberculosis	Definite
	Eubacterium gingivalis	12	1.18	0.0371					
	Mycobacterium tuberculosis complex	70	2.71	-					
26	Mycobacterium tuberculosis complex	13	24.78		Negative	Negative	TB-DNA(+)	Tuberculosis	Definite
27	Haemophilus parahaemolyticus	10	11.1	0.0304	Negative	Negative	-	Bacterial pneumonia	Probable
28	Acinetobacter baumannii	20	5.2	0.0376	Negative	Negative	-	Bacterial pneumonia	Probable
29	Negative	-	-	-	Negative	Negative	-	Bacterial pneumonia	Possible
30	Fusobacterium	9	0.43	0.0516	Negative	Negative	Xpert(+)	Tuberculosis	Definite

	Haemophilus in sputum	17	0.4	0.0336					
	Actinobacteria dental	7	0.09	0.0107					
31	Negative	-	-	-	Negative	Negative	TB-DAN(+)	Tuberculosis	Definite
	Escherichia coli	84	3.35	0.1497	Negative	Escherichia coli	-	Bacterial pneumonia	Probable
	Enterococcus faecalis	89	1.79	0.1253		Enterococcus faecalis			
	Shigella sonnsonii	8	1.44	0.101		Candida albicans			
32*	Shigella dysentery	4	4.15	0.2016					
	Listeria diaphysalis	9	0.42	0.0297					
	Candida albicans	443	76.01	0.0788					
	HSV1	995	100	21.25					
33	EBV	63	98.37	1.83	Negative	Negative	-	Bacterial pneumonia	Probable
	Klebsiella pneumoniae	60	74.51	1.43	Negative	Stomatococcus mucilaginosus	-	Bacterial	Probable
34						Neisseria			
						Candida albicans			
35	Negative	-	-	-	Negative	Negative	-	Bacterial pneumonia	Probable
36	HHV-7	2	2.3	0.0594	Negative	Negative	-	HHV-7 pneumonia	Probable
37	Enterococcus faecium	1	1.54	0.0014	Gram-negative bacilli	Negative	-	Lung contusion pneumonia	Probable
38	Pseudomonas aeruginosa	129	16.06	0.3854	Gram-negative bacilli	Pseudomonas aeruginosa	-	Pseudomonas aeruginosa pneumonia	Definite
39	Klebsiella pneumoniae	-	-	-	Negative	Negative	Adenovirus	Adenovirus+ pneumonia	Bacterial Probable
	Chryseobacterium	-	-	-					
40	Klebsiella	3	2.18		Negative	Negative	-	Bacterial pneumonia	Probable

41	Klebsiella pneumoniae	3	1.95	0.0061	Negative	Negative	-	Bacterial pneumonia	Probable
42	Enterobacter horii	17850	43.99	18.03	Negative	Stenotrophomonas maltophilia	-	Bacterial pneumonia	+fungal Probable
	Enterococcus faecium	11101	27.26	14.98					
	Stenotrophomonas maltophilia	1132	3.02	1.75					
	Acinetobacter baumannii	245	0.69	0.3072					
	Aspergillus fumigatus	3	4.07	0.001					
43*	Pseudomonas	305	11	1.23	Negative	Stenotrophomonas maltophilia	-	Bacterial pneumonia	Probable
	Pseudomonas putida	171	9.75	0.8125		Chryseobacterium indologenes			
	Hospital Acinetobacter	1174	9.03	1.64					
	Acinetobacter baumannii	452	5.06	0.7659					
	Enterobacter horii	1518	8.91	1.76					
	Stenotrophomonas maltophilia	26	0.21	0.0403					
	Elizabeth bacteria	977	7.24	1.31					
	Aspergillus fumigatus	12	8.96	0.002					
	HSV-1	116	100	3.1					
44*	Pyramidobacter pisco-lens	197	13.25	0.3425	Negative	Negative	-	Bacterial	Probable
	Actinomyces chlamydia	4	0.16	0.0043					
	Enterococcus faecium	23	1.32	0.0343					
	Acinetobacter baumannii	8	0.61	0.0129					
	Candida albicans	464	8.22	0.0792					
	parvovirus type 15	67	65.15	48.98					
	parvovirus type 10	8	13.09	11.7					
	parvovirus type 12	6	9.27	11.25					

45	Tsutsugamushi	42	71.94	0.0704	Negative	Negative	-	Scrub typhus	Definite
	EBV	4	100	0.2781					
46	Negative	-	-	-	Negative	Staphylococcus aureus	-	Bacterial pneumonia	Probable
						Streptococcus pneumoniae			
47	Mycobacterium tuberculosis complex	-	-	-	Negative	Negative	-	Tuberculosis	Definite

EBV: Epstein-Barr virus; HHV-7: Human herpesvirus 7; HSV1: Herpes simplex virus 1; CMV: Cytomegalovirus; TB: Tuberculosis.