

Specimen Type	Clinical history	Total Tested (n)	Total Positive (n)	Fraction Positive (95% CI)	Bacteria Tested (n)	Bacteria Positive (n)	Bacteria Fraction Positive (95% CI)	AFB Tested (n)	AFB Positive (n)	AFB Fraction Positive (95% CI)	Fungal Tested (n)	Fungal Positive (n)	Fungal Fraction Positive (95% CI)
Artery		9	3	0.33 (0.23-0.44)	9	2	0.22 (0.16-0.28)	4	0	0	6	1	0.17 (0.12-0.22)
	Aortitis/ arteritis	7	3	0.42 (0.27-0.59)	7	2	0.29 (0.19-0.38)	4	0	0	5	1	0.2 (0.13-0.27)
	Abscess	1	0	0	1	0	0	0	0	0	1	0	0
	Endocarditis	1	0	0	1	0	0	0	0	0	0	0	0
Bronchoalveolar lavage/sputum		8	5	0.63 (0.42-0.83)	2	2	1	3	1	0.33 (0.16-0.51)	3	2	0.67 (0.31-1)
	Pneumonia	8	5	0.63 (0.42-0.83)	2	2	1	3	1	0.33 (0.16-0.51)	3	2	0.67 (0.31-1)
Bone		148	22	0.15 (0.14-0.16)	145	18	0.12 (0.12-0.13)	56	2	0.036 (0.03-0.04)	56	2	0.036 (0.03-0.04)
	Osteomyelitis/ discitis	121	20	0.17 (0.15-0.18)	120	18	0.15 (0.14-0.16)	44	1	0.023 (0.02-0.02)	46	1	0.023 (0.02-0.02)
	Abscess	11	0	0	11	0	0	2	0	0	2	0	0
	Mass/lesion	3	1	0.33 (0.16-0.51)	3	0	0	3	0	0	3	1	0.33 (0.16-0.51)
	Non-healing wound	7	0	0	7	0	0	2	0	0	3	0	0
	Other	6	1	0.17 (0.12-0.22)	4	0	0	5	1	0.2 (0.13-0.27)	2	0	0
Brain		11	3	0.27 (0.2 – 0.34)	9	1	0.12 (0.09-0.13)	9	1	0.11 (0.09-0.13)	8	2	0.25 (0.17-0.33)
	Meningitis	4	0	0	3	0	0	4	0	0	4	0	0
	Abscess	4	3	0.75 (0.43-1.0)	3	1	0.33 (0.16-0.51)	2	1	0.5 (0.15-0.85)	4	2	0.5 (0.26-0.75)
	Mass/lesion	2	0	0	2	0	0	2	0	0	0	0	0
	Granuloma	1	0	0	1	0	0	1	0	0	0	0	0
Breast		17	5	0.29 (0.23-0.36)	17	5	0.29 (0.23-0.36)	11	0	0	5	0	0

	Abscess	2	0	0	2	0	0	1	0	0	0	0	0
	Granulomatous mastitis	15	5	0.33 (0.25-0.41)	15	5	0.33 (0.25-0.41)	10	0	0	5	0	0
CSF		26	4	0.15 (0.13-0.17)	22	3	0.14 (0.12-0.16)	9	0	0	15	1	0.067 (0.06-0.08)
	Meningitis	24	4	0.17 (0.14-0.19)	20	3	0.15 (0.13-0.17)	8	0	0	14	1	0.07 (0.06-0.08)
	Abscess	2	0	0	2	0	0	1	0	0	1	0	0
Digit		6	0	0	4	0	0	6	0	0	5	0	0
	Cellulitis	3	0	0	2	0	0	3	0	0	2	0	0
	Osteomyelitis	3	0	0	2	0	0	3	0	0	3	0	0
Intervertebral disc		17	1	0.06 (0.05-0.07)	15	1	0.067 (0.06-0.08)	5	0	0	5	0	0
	Osteomyelitis/discitis	16	1	0.063 (0.06-0.07)	14	1	0.071 (0.06-0.08)	5	0	0	5	0	0
	Abscess	1	0	0	1	0	0	0	0	0	0	0	0
Epidural/Paravertebral		26	10	0.38 (0.31-0.46)	25	6	0.24 (0.20-0.28)	7	1	0.14 (0.11-0.18)	9	3	0.33 (0.23-0.44)
	Osteomyelitis	9	3	0.33 (0.23-0.43)	9	1	0.11 (0.09-0.13)	3	0	0	5	2	0.4 (0.23-0.57)
	Abscess/Phlegmon	16	6	0.38 (0.29-0.46)	15	4	0.27 (0.21-0.33)	4	1	0.25 (0.14-0.36)	4	1	0.25 (0.14-0.36)
	Non-healing wound	1	1	1	1	1	1	0	0	0	0	0	0
Foreign Body		7	3	0.43 (0.27-0.59)	7	3	0.43 (0.27-0.59)	0	0	0	2	0	0
	Septic arthritis	4	3	0.75 (0.43-1)	4	3	0.75 (0.43-1)	0	0	0	0	0	0
	Endocarditis	3	0	0	3	0	0	0	0	0	2	0	0
Joint Fluid		67	15	0.22 (0.17-0.27)	66	15	0.23 (0.18-0.28)	16	0	0	18	0	0
	Septic arthritis	59	12	0.20 (0.15-0.26)	59	12	0.20 (0.15-0.26)	12	0	0	15	0	0

	Osteomyelitis	5	1	0.2 (0.02-0.38)	5	1	0.2 (0.02-0.38)	3	0	0	3	0	0
	abscess	2	1	0.5 (0.15-0.85)	1	1	1	1	0	0	0	0	0
	Other	1	1	1	1	1	1	0	0	0	0	0	0
Joint Tissue		98	13	0.13 (0.098-0.17)	95	11	0.12 (0.08-0.15)	30	1	0.03 (0.0006-0.066)	24	2	0.083 (0.027-0.14)
	Septic arthritis	73	11	0.15 (0.11-0.19)	71	9	0.13 (0.09-0.17)	21	1	0.048 (0.001-0.094)	16	2	0.13 (0.04-0.21)
	Osteomyelitis	12	1	0.083 (0.004-0.16)	12	1	0.083 (0.004-0.16)	3	0	0	4	0	0
	non-healing wound	5	1	0.2 (0.02-0.38)	5	1	0.2 (0.02-0.38)	1	0	0	1	0	0
	abscess	4	0	0	4	0	0	2	0	0	1	0	0
	Other	4	0	0	3	0	0	3	0	0	2	0	0
Liver		14	1	0.25 (0.19-0.31)	10	1	0.25 (0.14-0.38)	9	0	0	4	0	0
	Granuloma	6	0	0	3	0	0	4	0	0	1	0	0
	Abscess	4	1	0.25 (0.14-0.36)	4	1	0.25 (0.14-0.38)	2	0	0	1	0	0
	Mass/lesion	3	0	0	2	0	0	2	0	0	1	0	0
	Lymphadenopathy	1	0	0	1	0	0	1	0	0	1	0	0
Lung		52	15	0.29 (0.25-0.32)	14	0	0	36	4	0.11 (0.10-0.12)	36	11	0.31 (0.26-0.35)
	Granuloma	21	4	0.19 (0.16-0.22)	5	0	0	16	2	0.13 (0.10-0.15)	13	2	0.15 (0.12-0.18)
	Mass/lesion	19	8	0.42 (0.33-0.51)	3	0	0	11	2	0.18 (0.14-0.22)	14	6	0.43 (0.32-0.54)
	Pneumonia	11	3	0.27 (0.20-0.34)	6	0	0	8	0	0	9	3	0.33 (0.23-0.44)
	Lymphadenopathy	1	0	0	0	0	0	1	0	0	0	0	
Lymph node		39	10	0.26 (0.22-0.29)	23	4	0.17	32	4	0.13	21	2	0.095

							(0.15-0.20)			(0.11-0.14)			(0.08-0.11)
	Granuloma	16	4	0.25 (0.20-0.30)	10	3	0.3 (0.21-0.39)	15	1	0.067 (0.06-0.08)	6	0	0
	Lymphadenopathy	22	5	0.23 (0.19-0.27)	12	0	0	17	3	0.18 (0.14-0.21)	14	2	0.14 (0.12-0.17)
	Mass/lesion	1	1	1	1	1	1	0	0	0	1	0	0
Pericardial fluid		4	0	0	1	0	0	4	0	0	0	0	0
	Pericardial effusion	1	0	0	1	0	0	1	0	0	0	0	0
	Pericarditis	3	0	0	0	0	0	3	0	0	0	0	0
Pericardial tissue		5	0	0	2	0	0	4	0	0	2	0	0
	Pericardial effusion	2	0	0	0	0	0	2	0	0	0	0	0
	Pericarditis	3	0	0	2	0	0	2	0	0	2	0	0
Peritoneum		8	3	0.38 (0.25-0.50)	6	2	0.33 (0.25-0.50)	5	0	0	6	1	0.17 (0.12-0.22)
	Peritonitis	7	3	0.43 (0.27-0.59)	5	2	0.4 (0.23-0.57)	4	0	0	5	1	0.2 (0.13-0.27)
	Abscess	1	0	0	1	0	0	1	0	0	1	0	0
Pleural fluid		9	3	0.33 (0.18-0.49)	5	2	0.4 (0.18-0.62)	5	1	0.2 (0.02-0.38)	4	0	0
	pleural effusion	9	3	0.33 (0.18-0.49)	5	2	0.4 (0.18-0.62)	5	1	0.2 (0.02-0.38)	4	0	0
Pleural tissue		7	4	0.57 (0.38-0.76)	5	4	0.8 (0.62-0.98)	5	0	0	6	1	0.17 (0.014-0.32)
	pleural effusion	4	3	0.75 (0.53-0.97)	4	3	0.75 (0.53-0.97)	2	0	0	3	1	0.33 (0.06-0.61)
	Other	3	1	0.33 (0.06-0.61)	1	1	1	3	0	0	3	0	0
Skin		24	7	0.29 (0.24-0.34)	10	3	0.3 (0.21-0.39)	20	1	0.05 (0.05-0.05)	12	3	0.25 (0.19-0.31)
	Cellulitis	9	3	0.33 (0.23-0.44)	5	2	0.4 (0.23-0.57)	6	0	0	5	1	0.2 (0.13-0.27)

	Abscess	2	1	0.5 (0.15-0.85)	1	1	1	2	0	0	1	0	0
	mass/lesion	4	1	0.25 (0.14-0.36)	2	0	0	4	1	0.25 (0.14-0.36)	1	0	0
	Granuloma	6	1	0.17 (0.12-0.22)	1	0	0	6	0	0	4	1	0.25 (0.14-0.36)
	Lymphadenopathy	1	0	0	0	0	NA	1	0	0	0	0	0
	non-healing wound	2	1	0.5 (0.15-0.85)	1	0	0	1	0	0	1	1	1
Soft tissue		58	17	0.29 (0.26-0.33)	48	13	0.27 (0.24-0.30)	25	3	0.12 (0.10-0.14)	26	2	0.077 (0.07-0.08)
	Abscess	20	7	0.35 (0.28-0.43)	19	5	0.26 (0.21-0.32)	7	1	0.14 (0.11-0.18)	8	1	0.13 (0.10-0.15)
	mass/lesion	6	2	0.33 (0.21-0.46)	5	2	0.4 (0.23-0.57)	4	1	0.25 (0.14-0.36)	4	0	0
	Cellulitis	7	1	0.14 (0.11-0.18)	5	1	0.2 (0.13-0.27)	5	0	0	4	0	0
	Granuloma	4	1	0.25 (0.14-0.36)	1	1	1	4	0	0	2	0	0
	Non-healing wound	6	2	0.33 (0.21-0.46)	5	1	0.2 (0.21-0.46)	2	0	0	4	1	0.25 (0.14-0.36)
	Osteomyelitis	6	2	0.33 (0.21-0.46)	6	2	0.33 (0.21-0.46)	1	0	0	1	0	0
	Septic arthritis	3	0	0	3	0	0	0	0	0	0	0	0
	Other	6	2	0.33 (0.21-0.46)	4	1	0.25 (0.14-0.36)	2	1	0.5 (0.15-0.85)	3	0	0
Heart Valve		19	11	0.58 (0.45-0.71)	19	11	0.58 (0.45-0.71)	5	0	0	5	1	0.2 (0.13-0.27)
	Endocarditis	19	11	0.58 (0.45-0.71)	19	11	0.58 (0.45-0.71)	4	0	0	5	1	0.2 (0.13-0.27)
Other (<5 specimens per type)		29	8	0.28 (0.24-0.32)	15	2	0.13 (0.11-0.16)	15	0	0	16	6	0.38 (0.29-.46)
	Abscess	2	1	0.5 (0.15-0.85)	2	1	0.5 (0.15-0.85)	1	0	0	1	0	0

Granuloma	7	0	0	2	0	0	6	0	0	1	0	0
Osteomyelitis	3	0	0	2	0	0	2	0	0	1	0	0
Mass/lesion	3	1	0.33 (0.16-0.51)	2	0	0	2	0	0	2	1	0.5 (0.15-0.85)
Sinusitis	3	2	0.67 (0.31-1)	1	0	0	0	0	0	3	2	0.67 (0.31-1)
Aplastic anemia	2	0	0	1	0	0	2	0	0	1	0	0
Endophthalmitis	3	1	0.33 (0.16-0.51)	1	0	0	0	0	0	3	1	0.33 (0.16-0.51)
Other	6	3	0.5 (0.30-0.70)	4	1	0.25 (0.14-0.36)	2	0	0	4	2	0.5 (0.26-0.75)

Supplemental Table 1. Specimen type and clinical indication for all specimens tested via universal PCR, with positivity rates for bacteria, mycobacteria, and fungi

