

Supplemental Table 1: Clinical data and background of each patient

Case	Age Range	Sex	Laterality	Past history	Intra		Bacterial culture	Microbiome results	Group	Total Reads	Coverage (%)
					logMAR VA	ocular pressure (mmHg)					
1	55-60	F	Left	uveitis, atopic dermatitis	-0.08	19	—	—	III	87,355	—
2	60-65	M	Left	post-glaucoma surgery	1.2	12	—	—	III	48,393	—
3	70-75	F	Left	sepsis	2	15	—	—	III	40,505	—
4	80-85	F	Right	uveitis	2	11	—	—	III	67,000	—
5	20-25	M	Right	uveitis	2	11	—	—	III	64,511	—
6	75-80	M	Right	post-cataract surgery	1.4	7	<i>Staphylococcus epidermidis</i>	<i>Staphylococcus epidermidis</i>	I	94,147	99.7
7	70-75	F	Right	sepsis, type1DM	2	15	<i>Klebsiella pneumoniae</i>	<i>Klebsiella pneumoniae</i>	I	82,462	67.6
8	60-65	M	Left	post-cataract surgery	2	18	<i>Staphylococcus aureus</i>	<i>Staphylococcus aureus</i>	I	58,357	45.7
9	60-65	M	Right	chronic kidney disease, HD	LP	29	<i>Staphylococcus aureus</i>	<i>Staphylococcus aureus</i>	I	47,774	33.4
10	35-40	M	Right	trauma	1.5	8	—	—	III	59,400	—
11	70-75	F	Right	post-glaucoma surgery	NLP	26	<i>Streptococcus mitis</i>	<i>Streptococcus mitis</i>	I	39,985	99.4
12	40-45	F	Right	scleritis	2	6	—	—	III	109,838	—
13	70-75	F	Right	uveitis	2	12	—	—	III	83,841	—
14	75-80	M	Right	post-penetrating keratoplasty, cytomegalovirus infection	1.4	22	—	<i>Pseudomonas veronii</i>	II	69,739	38.1
15	50-55	F	Right	post cataract surgery	0	10	—	<i>Pseudomonas veronii</i>	II	93,399	40.6
16	75-80	M	Right	post-cataract surgery	0.52	22	—	<i>Bradyrhizobium japonicum</i>	II	52,606	65.9

17	45-50	M	Right	prostatic abscess	2	19	<i>Klebsiella pneumoniae</i>	<i>Klebsiella pneumoniae</i>	I	64,830	68.0
18	55-60	M	Left	post-cataract surgery, DM	0.7	24	–	<i>Bradyrhizobium japonicum</i>	II	32,264	37.9
19	70-75	M	Left	Orbital cellulitis, DM	LP	34	–	<i>Methylobacterium mesophilicum</i>	II	69,739	27.0
20	85-90	M	Right	prostate cancer	LP	30	–	<i>Staphylococcus aureus</i>	II	133,000	77.2
21	10-15	M	Right	trauma	-0.08	16	–	<i>Methylobacterium adhaesivum</i>	II	64,731	79.5

M = male; F = female; logMAR = logarithm of the minimum angle of resolution; VA = visual acuity LP = light perception; NLP = no light perception; HD = Hemodiafiltration; DM = Diabetes mellitus