

Supplementary Table 1. Clinical, radiological, pathological and microbiological features of cystic granulomatous neutrophilic mastitis

	Taylor et al(2)	Renshaw et al(3)	Crum-Cianflone et al(10)	D'Alfonso et al(4)	Troxell et al(5)	Johnstone et al(6)	Gautham et al(7)	Shoyele et al(8)	Wang et al(9)	Sangoi(11)	Naik et al(16)
<b>Year of publication</b>	2003	2011	2014	2015	2016	2017	2018	2018	2018	2019	2019
<b>Number of Patients</b>	34	3	1	12	19	15	6	7	1	19	24
<b>Age</b>											
Mean	33.6	34	33	34	33.5	38.7	35	41	52	37.8	32
Range	N/A	22-54	33	25-49	19-46	33-58	32-38	28-53	52	31-57	24-39
<b>Ethnicity</b>											
African-American	0	N/A	0	N/A	0	0	1 (16.7%)	0	0	0	0
Asian	3 (8.8%)	N/A	0	N/A	0	4 (26.7%)	1 (16.7%)	0	0	11 (57.9%)	0
Caucasian/European	3 (8.8%)	N/A	0	N/A	0	0	3 (50%)	0	0	3 (15.8%)	0
Hispanic	0	N/A	1 (100%)	N/A	12 (63.2%)	0	1 (16.7%)	5 (71.4%)	0	4 (21%)	0
Maori	15 (44.1%)	N/A	0	N/A	0	1 (6.6%)	0	0	0	0	0
Pacific Islander	12 (35.3%)	N/A	0	N/A	0	0	0	0	0	0	0
Indian	0	N/A	0	N/A	0	0	0	0	0	0	24 (100%)
Unknown	1 (3%)	N/A	0	N/A	7 (36.8%)	10 (66.7%)	0	2 (28.6%)	1 (100%)	1 (5.3%)	0
<b>Parity</b>											
Known parity status	34	N/A	1	12	17	N/A	N/A	0	N/A	14	14 (100%)
Parous	32 (94.1%)	N/A	1 (100%)	7 (58.3%)	17 (100%)	N/A	N/A	6 (85.7%)	N/A	12 (85.7%)	13 (92.9%)
<b>Lactation at presentation</b>	6 (17.6%)	N/A	0	N/A	N/A	N/A	N/A	N/A	N/A	N/A	1 (7.1%)
<b>Time since last birth (years)</b>	0-20	N/A	6	>0.5	0-8	N/A	N/A	1.5- >8	N/A	N/A	N/A
<b>Clinical presentation</b>											

Mass/suspicious for malignancy	12 (35.3%)	2 (66.7%)	0	12 (100%)	N/A	9 (60%)	6 (100%)	6 (85.7%)	1 (100%)	16 (84.2%)	“Most often”
Abscess	0	1 (33.3%)	1 (100%)	0	N/A	6 (40%)	0	0	0	7 (36.8%)	0
Erythema	0	0	1 (100%)	7 (58.3%)	N/A	0	1 (16.7%)	0	0	4 (21.1%)	0
Nipple discharge	8 (23.5%)	0	0	0	N/A	0	1 (16.7%)	2 (28.6%)	0	0	2 (8.3%)
Nipple inversion	20 (58.8%)	0	0	2 (16.7%)	N/A	0	0	0	0	0	5 (20.8%)
Sinus formation	22 (64.7%)	0	0	0	N/A	0	0	0	0	0	1 (4.2%)
Pain	0	0	1 (100%)	6 (50%)	N/A	0	0	6 (85.7%)	1 (100%)	0	“Most often”
<b>Bilaterality</b>	6 (17.6%)	0	0	0	3 (15.8%)	3 (20%)	0	0	0	0	1 (4.2%)
<b>RADIOLOGY</b>											
Size, mean (cm)	N/A	N/A	N/A	3.7	N/A	N/A	4.1	N/A	4.5	N/A	N/A
Size, range (cm)	N/A	N/A	N/A	1.7-5.7	N/A	N/A	0.6-9.6	N/A	4.5	N/A	N/A
No. with imaging	N/A	N/A	N/A	11 (91.7%)	N/A	N/A	6 (100%)	N/A	1 (100%)	N/A	N/A
<b>Ultrasound</b>	N/A	N/A	N/A	11 (100%)	N/A	N/A	6 (100%)	N/A	1 (100%)	N/A	N/A
Mass	N/A	N/A	N/A	7 (63.6%)	N/A	N/A	5 (83.3%): 3 irregular, 1 lobulated, 1 oval	N/A	1 (100%)	N/A	N/A
Dilated ducts	N/A	N/A	N/A	2 (18.2%)	N/A	N/A	0	N/A	0	N/A	N/A
Abscess	N/A	N/A	N/A	1 (9.1%)	N/A	N/A	0	N/A	0	N/A	N/A
Edema (no mass)	N/A	N/A	N/A	1 (9.1%)	N/A	N/A	0	N/A	0	N/A	N/A
Fluid collection	N/A	N/A	N/A	0	N/A	N/A	1 (16.7%)	N/A	0	N/A	N/A
<b>Mammography</b>	N/A	N/A	N/A	4 (36.4%)	N/A	N/A	3 (50%)	N/A	1 (100%)	N/A	N/A
Mass	N/A	N/A	N/A	3 (75%)	N/A	N/A	N/A	N/A	0	N/A	N/A
Asymmetry	N/A	N/A	N/A	1 (25%)	N/A	N/A	N/A	N/A	1 (100%)	N/A	N/A
<b>BIRADS</b>	N/A	N/A	N/A	9	N/A	0	6	N/A	0	N/A	N/A

2	N/A	N/A	N/A	0	N/A	N/A	1 (16.7%)	N/A	0	N/A	N/A
3	N/A	N/A	N/A	3 (33.3%)	N/A	N/A	N/A	N/A	0	N/A	N/A
4	N/A	N/A	N/A	4 (44.4%)	N/A	N/A	5 (83.3%)	N/A	0	N/A	N/A
5	N/A	N/A	N/A	2 (22.2%)	N/A	N/A	0	N/A	0	N/A	N/A
<b>HISTOLOGY</b>											
Granulomas	27 (79.4%)	2 (66.7%)	1 (100%)	12 (100%)	19 (100%)	14 (93.3%)	6 (100%)	7 (100%)	1 (100%)	19 (100%)	24 (100%)
Lipid vacuoles	0	3 (100%)	0	12 (100%)	19 (100%)	15 (100%)	6 (100%)	7 (100%)	1 (100%)	19 (100%)	24 (100%)
Number of patients with Gram stain	34 (100%)	3 (100%)	1 (100%)	12 (100%)	19 (100%)	15 (100%)	5 (83.3%)	7 (100%)	1 (100%)	19 (100%)	23 (95.8%)
GPB	15 (44.1%)	3 (100%)	0	5 (41.7%)	16 (84.2%)	7 (46.7%)	4 (80%)	4 (57.1%)	1 (100%)	7 (36.8%)	19 (82.6%)
GVB	1 (2.9%)	0	0	0	0	0	0	0	0	0	0
GNB	0	0	0	0	0	0	0	0	0	0	0
Negative	0	0	1 (100%)	7 (58.3%)	3 (15.8%)	8 (53.3%)	1 (20%)	3 (42.9%)	0	12 (63.2%)	4 (17.4%)
Corynebacteria identified by morphology	14 (93.3%)	0	0	1 (20%)	0	1 (14.3%)	0	0	0	"Many"	2 (10.5%)
Corynebacteria identified on 2 <sup>nd</sup> -look	10 (29.4%)	3 (100%)	0	0	3 (15.8%)	0	0	0	0	0	0
<b>MICROBIOLOGY</b>											
Total number of specimens	116	Unknown	Unknown	Unknown	Unknown	Unknown	Unknown	Unknown	Unknown	Unknown	Unknown
Total number of specimens with Corynebacterium	52	Unknown	Unknown	Unknown	Unknown	Unknown	Unknown	Unknown	Unknown	Unknown	Unknown
Total number of patients with culture	Unknown	3 (100%)	N/A	6 (50%)	N/A	15 (100%)	4 (66.7%)	6 (85.7%)	0	4 (21.1%)	15 (62.5%)
Total number of patients with positive culture	Unknown	0	1	0	4	14 (93.3%)	2 (50%)	3 (50%)	0	0	12 (80%)
Total number of patients with Corynebacterium	Unknown	0	1	0	3	14 (93.3%)	2 (50%)	1 (16.7%)	0	0	8 (53.3%)

TREATMENT												
Antibiotics only	0	1 (33.3%)	0	4 (33.3%)	3 (15.8%)	2 (13.3%)	1 (16.7%)	0	0	N/A	9 (37.5%)	
Surgery only	0	0	0	0	1 (5.3%)	0	0	0	0	N/A	1 (4.2%)	
Steroids only	0	0	0	0	2 (10.5%)	0	0	0	0	N/A	0	
Anti-inflammatory cream only	0	0	0	0	0	0	0	1 (14.3%)	0	N/A	0	
Antibiotics + surgery	17 (50%)	2 (66.7%)	1 (100%)	7 (58.3%)	2 (10.5%)	2 (13.3%)	0	2 (28.6%)	0	N/A	2 (8.3%)	
Antibiotics + steroids	3 (8.8%)	0	0	1 (8.3%)	2 (10.5%)	0	3 (50%)	2 (28.6%)	0	N/A	0	
Antibiotics + surgery + steroids	0	0	0	0	5 (10.5%)	0	0	1 (14.3%)	0	N/A	0	
No treatment	0	0	0	0	1 (5.3%)	0	0	1 (14.3%)	0	N/A	4 (16.7%)	
No information	14 (41.2%)	0	0	0	3 (15.8%)	11 (73.3%)	2 (33.3%)	0	1 (100%)	N/A	8 (33.3%)	

GNB, Gram-negative bacilli; GPB, Gram-positive bacilli; GVB, Gram-variable bacilli; N/A, not applicable