

LAPROSCOPY PORT SITE INFECTION

Dr. Vipul V Shah MD, FICP Consultant: Infectious Diseases

Ahmedabad, India

CASE HISTORY

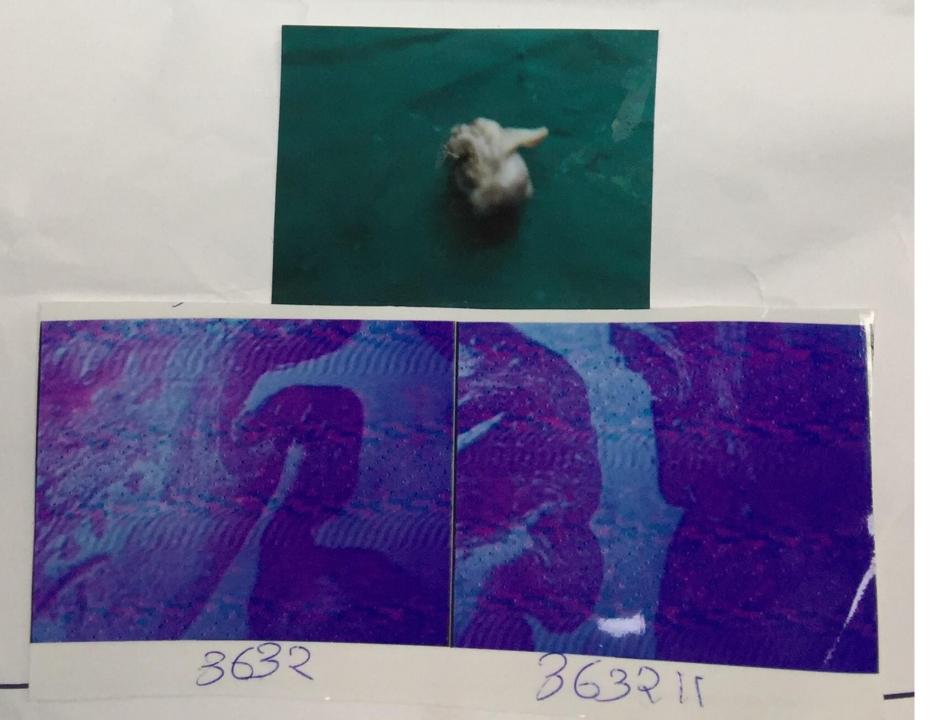
A 32 years old female from Ahmedabad

Underwent Laproscopy surgery for removal of left complex ovarian cyst on 21-11-2016

Pre operative lab evaluation was within normal limit

Port site stitch removed after 10 days

Swelling and discharge after 20 days of surgery from left side port



Left ovary + Cyst HPE: Serous cyst adenoma with presence of Haemorrhagic corpus luteum and follicular cyst

HISTORY CONTD....

Swelling and discharge after 20 days of surgery from left side port

Multiple dressing and multiple course of antibiotics for five months

Twice incision and drainage with negative pyogenic cultures

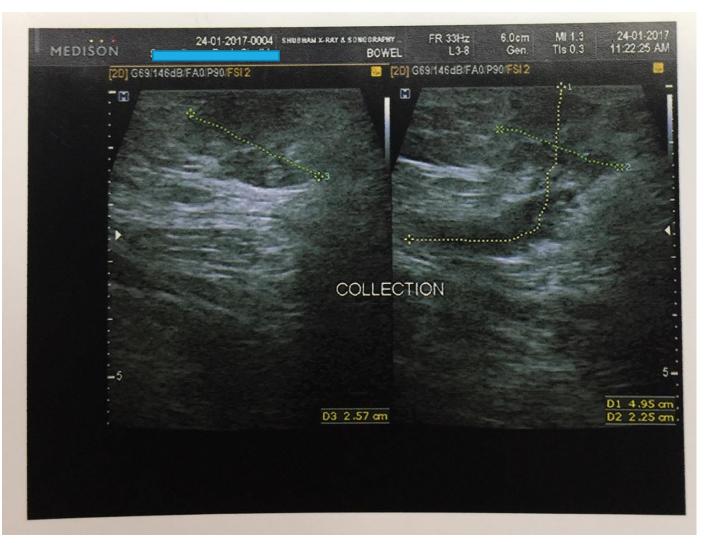
Still persistent discharge, swelling and pain

Past history of Hypothyroidism since 3 years on tab Thyronorm 75 microgram od

Rest of her past, personal and family history was not significant

USG LOCAL PART ON 24-01-2017

Left iliac fossa port incision site inflammatory track from subcutaneous to intramuscular region with underlying collection



ON EXAMINATION AT OUR CLINIC — APRIL 2017

Temp : 98.8*F; Pulse: 80/min; BP: 100/70 mm of Hg; RR:18/min

General examination was normal except presence of pallor

Abdominal examination

Normal except: LIF : presence of scar with two sinus openings and watery discharge (As in pic)

Rest of her systemic examination was normal



INCISION AND DRAINAGE WAS DONE ON 12-04-2017; HPE AND MICROBIOLOGY ORDERED

Tissue for HPE: section shows stratified squamous epithelium with underlying tissue with areas of necrosis, mixed inflammaroty infiltrate consist of neutrophils, lymphocytes, plasma ells and few eosinophils, few histiocytes and few foreign body giant cells with odema and vascular proliferation. No evidence of granuloma.

TISSU/PUS FOR PRIMARY STAIN — AFB ++

Quality to lead, Si		LABORATORY REP	ORT	
Registration Date & Time Sample Date & Time Report Date & Time	: 12-Apr-2017 21:42 : 12-Apr-2017 21:41 : 13-Apr-2017 20:12	Sample Type Sample Collected By Accessioning Remarks	: FLUID : STMPL 1	
TEST	R	ESULTS		
		SPECIMEN FOR PRIMAP	LY.STAIN	
Specimen Gram - Stain : KOH Preparation:	7	LUID he smear shows few gri ungal elements are not		cocci in pairs with many pus cells.
Z.N.Stain AFB By Immuno Floursc		F.B. DETECTED (++)		

TISSUE/PUS GENE XPERT : NEGATIVE

Smear positive for AFB and gene xpert negative indirectly suggests NTM infection

TISSUE/PUS FOR AFB CULTURE — POSITIVE ON 6^{TH} DAY — SUGGESTIVE OF NTM/MOTT

fleab	orti	LABORATORY REP	ORT	
Registration Date & Time Sample Date & Time Report Date & Time	: 12-Apr-2017 21:41 : 12-Apr-2017 21:35 : 18-Apr-2017 14:50	Sample Type Sample Collected By Accessioning Remarks	1 FLUID 1 STMPL 1	
TEST	R	ESULTS		
Specimen		LTURE (BACTE	C MGIT	360)
Z.N.Stain By Petroffs Me	thod A	FB DETECTED(++)	NTMMOT	FT on 66th Day of Incubation.(Final repor
AFB Primary Report AFB Intermediate Report	1. N	ot applicable		a na
	t. N	ot applicable		

MALDITOF IDENTIFICATION OF NTM – *M. FARCINOGNES*

	0	LABORATORY REP	ORT		II. III. II. II. III. III.
Registration Date & Time	: 20-Apr-2017 12:29	Sample Type	: FLUID		
Sample Date & Time	1 20-Apr-2017 12:23	Sample Collected By	: STMPL		
Réport Date & Time	: 21-Apr-2017 17:36	Accessioning Remarks	1		
TEST	FI	ESULTS UNIT	EXPECTED	VALUES	REMARKS
		DENTIFICATION BY MA			
	15	(Mass Spectromet	LDI TOF		
Specimen ' IDENTIFICATION BY M	,	DENTIFICATION BY MA	LDI TOF ry) IT from MGI		

Further the other molecular techniques were adopted for genome analysis of these mycobacteria. The analysis of 16srDNA using Sanger sequencing and Next generation Sequencing revealed the two pictures that were observed in both techniques and found to be similar (Fig.3,4a and 4b) for M. farcinogenes (DSM43637)

FINAL DIAGNOSIS : NTM (*M. FARCINOGENES*) PORT SITE INFECTION

TREATMENT STARTED

IV Amikacin 1 gm daily

Tab clarithromycin 500 mg bd

Tab linezolid 600 mg od

Patient developed oto-toxicity due to amikacin after one month and hence stopped

Continued on clarithromycin, Linezolid and added moxifloxacin 400 mg od

Patient improved and discharge stopped after one and half month

Repeat sonography shown residual track

Linezolid discontinued after two months due to hematological toxicity

Clarithromycin and moxifloxacin continued further

Total duration of treatment given: 9 months

After 2 month of treatment :

Discharge stopped

No inflammation or induaration

Repeat USG suggestive of residual sinus track without any collection



Before start of treatment



After two month of treatment



TAKE HOME MESSAGE

In any patient with persistent discharge from laproscopy port site, one should think of Non-tuberculous Mycobacterium (NTM) infection

In such situation, rather than giving empirical antibiotics, establish diagnosis

Always send tissue/pus for primary stain, Genexpert, AFB culture along with pyogenic culture