## Acute thyroiditis due to nocardia associated to thyrotoxicosis

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**Introduction**Acute thyroiditis is an uncommon condition that, exceptionally, presents with thyrotoxicosis. Differential diagnosis mainly includes subacute thyroiditis. Nocardia asteroides is an opportunistic pathogen, with the majority of infections occurring in immunocompromised patients, as the delay in diagnosis due to negative blood cultures makes it potentially letal. We present a case of acute thyroiditis due to Nocardia that presents with thyrotoxicosis in a patient with diabetic nephropathy that received a kidney cadaveric transplant.



A 44-year-old woman with diabetic nephropathy had a cadaveric renal transplant. About 3 months later, she presented neck pain accompanied by fever, dysphagia, enlargement of thyroid gland and thyrotoxicosis. These findings together with image tests were consistent with subacute thyroiditis. However, worsening of symptoms despite usual treatment and the finding of an abscess in the ultrasonography study made us formulate the possibility of an acute thyroiditis. Fine-needle aspiration of the abscess and drainage were performed and Nocardia asteroides was isolated in the fluid culture. Due to persistence of abscess, in spite of drainage and specific antibiotic therapy, surgical thyroidectomy was performed.



Case	Pacient	Risk factors	<b>Extrathryroid sites infection</b>	Treatment	Outcome	Thyroid
reprt	(age)					dysfunction
Lewin SR	Female	Systemic lupus erythematosus	Lung	Flucloxaciline, penicillin and	Recovery	No
(1993)	(20)	Treatment with cyclofosfamide and		metronidazol.		
		prednisolone		Percutaneous drainage		

				TMP-SMZ		
Carriere C (1999)	Male (58)	Liver-kidney transplantation Treatment with corticosteroids, azathioprine and ATG/ tacrolimus Multinodular goiter	Pleura, lung, percardium, kidney	Imipenem and amikacin. Surgical drainage Amoxicillin/clavulanate. TMP-SMZ	Recovery	No
Leong KP (2000)	Female (46)	Systemic lupus erythematosus Treatment with cyclofosfamide and prednisolone	Lung	Ceftriaxone. Percutaneous drainage TMP-SMZ	Exitus	No
Severo CB (2005)	Male (75)	Multiple myeloma Protracted treatment with prednisone	Pleura, lung, heart, kidney, central nervous system, bone, soft tissue	Ceftriaxone. Percutaneous drainage TMP-SMZ	Exitus	No
Indumathi VA (2007)	Male (67)	Diabetes. Still's disease, vasculitis. Treatment with corticosteroids	Lung, central nervous system, mediastinum, pancreas	Meropenem and amikacin. Percutaneous drainage. TMP-SMZ	Exitus	No
Su BA (2011)	Female (70)	Chronic obstructive pulmonary disease Multinodular goiter Treatment with prednisolone	Lung, brain	Amoxicillin/ clavulanate and gentamicin Percutaneous drainage. TMP-SMZ	Recovery	No
<b>Teckie G</b> (2014)	Female (38)	AIDS	Lung	Antibiotics unspecified Surgical drainage	Recovery	Yes
Our case	Female (44)	Diabetes. Kidney transplantation Treatment with corticosteroids, tacrolimus, mycophenolate mofetil and ATG Central venous catheter	Lung	Piperazine- tazobactamTMP-SMZPercutaneous drainage.Total thyroidectomy	Recovery	Yes
able 1. Clini	cal charact	teristics and outcomes of published cases of	f patients with thyroiditis du	le to Nocardia		G: antithymocyte glo ethoprim-sulfametho
Sonclus	tions	Acute thyroiditis due to Nocardia is exce presenting with thyrotoxicosis. This is th organ, the rest being in patients under co	e second known case of N rticosteroids treatment. No	locardia thyroiditis in a pati ocardiosis is typically regar	ent with a s ded as an op	olid transplant
		infection occurring in immunocompromi	used hosts and it should be	taken into account in these	patients.	

