Radboudumc

REQUEST FORM Malodour syndrome diagnostics

Radboudumc Laboratory for Diagnostics PO Box 9101 Internal Post 815 6500 HB Nijmegen The Netherlands Tel : +31 (0) 24-3614777 www.radboudumc.nl/laboratoriumvoordiagnostiek		First Midd Date _{ostiek} Gen You	Patient Family name: First name: Middle name: Date of Birth: Gender: Your Reference (MRN etcet		DD / MM / YY M / F tc):				
KGCM	Investigations are cond the Clinical Genetics C Nijmegen.	entre	ress: code and City:						
Referring	physician								
Name:					Phone:				
Hospital:					Fax:				
Specialty:					Email:				
Department :					CC result to:		Referring physician		
Address:							Other:		
Billing address:									
Background <i>I Fish odour syndrome or trimethylaminuria diagnosis</i> Deficiency of the Flavin-containing Mono-Oxygenase 3 (= <i>FMO3</i>) is responsible for fish odour syndrome or trimethylaminuria (OMIM 602079). First line diagnostics is the mutation analysis of the <i>FMO3</i> gene (requires uncentrifuged EDTA blood or isolated DNA). In case of variants of unknown significance in the <i>FMO3</i> gene we will advise second line testing using a fish meal loading test (a fish meal with preferably 300 grams of fresh fish). In the pre- and post load urine samples we measure trimethylamine (TMA) and the ratio TMA/TMAO using NMR spectroscopy. NMR spectroscopy also will confirm or exclude dimethylglycine dehydrogenase deficiency as a cause of a fish like malodour. We prefer to obtain two samples: 1. Urine (>2mi) on normal diet (=pre-load sample) 2. Urine collected during 12 hours after a fish meal with preferably 300 grams of fresh fish. From this volume >2ml should be sent frozen on dry ice (=post-load sample). <i>II Other malodour syndromes</i> For other non-fish like malodour syndromes we advise NMR spectroscopy of urine and heparinised plasma (2 ml of each to be sent frozen on dry ice). Requested Investigations Please provide_clinical data (see page 2).									
Requested I	nvestigations	Please	provide_clini	cal d	ata (see page	<u>2).</u>			
Fish Odour syndrome / Trimethylaminuria									
☐ FMO3 gene	e (first line test)								
Loading tes	st-fishmeal (second alysis)	l line test)							
• Othe	er malodour syr	ndromes							
NMR spectroscopy in urine, plasma or CSF (first line test)									
(analysis outside scope of ISO15189:2012 accreditation)									
Patient does not give permission for long-term storage for any additional diagnostic or research of this body material at a later date (code 1010)									

			To be filled out by lab employee:						
			Date received:						
Specimen			Reception time:						
			Remarks:						
EDTA blood (uncentrifuged)	Sample date								
Urine pre-load	Sample date								
Urine post-load	Sample date								
Isolated DNA	Sample date								
Medication									
Please describe the malodour	of the patient								
Clinical signs and symptoms									
Instructions for sample shipm	ent								
For DNA analysis:									
EDTA 5 ml – do not centrifuge	DNA) can be cont at	room tomporature to Padhoudume, Laboratory for Diagnost	ice DO Boy 0101 Internal Dest 815 6500						
HB, Nijmegen, The Netherlands and to the		room temperature to Radboudumc, Laboratory for Diagnost inslational Metabolic Laboratory.	its, FO Box 9101, internal Fost 813, 0300						
		well-capped and frozen on sufficient dry ice to Radboudumo	, Laboratory for Diagnostics, PO Box 9101,						
Internal Post 815, 6500 HB, Nijmegen, The	e Netherlands and to	the attention of the Translational Metabolic Laboratory.							
For NMR spectroscopy minimal volumes r	required are:								
- Urine; 1 ml									
- Heparinized plasma or serum; 1 ml									

Cerebrospinal fluid; 1 ml