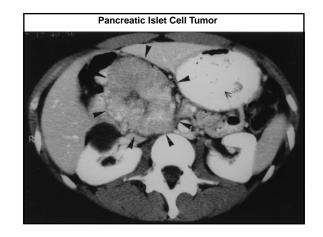
VHLFA Annual Meeting and Conference Houston, Tx, January 26-28, 2012

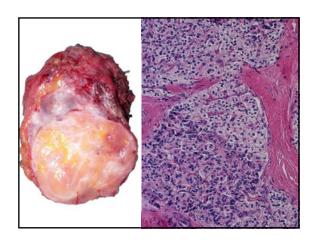
Pancreatic Islet Cell Tumors (Pancreatic Neuroendocrine Tumors - PNETs)

Hartmut P.H. Neumann and Laura von Ducker

University Medical Center Preventive Medicine Program Albert-Ludwigs-University of Freiburg, Germany





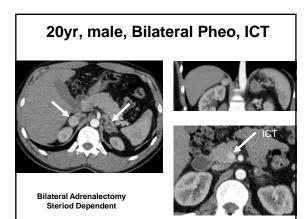




20 year old Man

1st Bilateral Adrenal
Pheochromocytoma
and Islet Cell Tumor

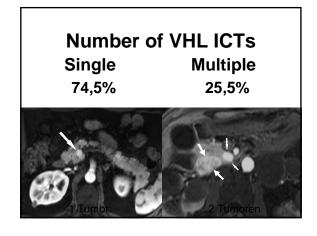
2nd Cerebellar
Hemangioblastoma

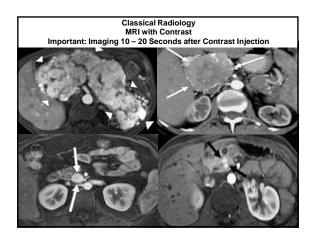


PNETs and VHL

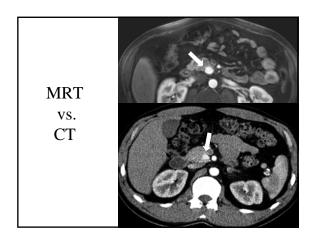
- Prevalence
- Serial Tomography
- Nuclear Medicine Imaging
- Growth
- Malignancy
- Genetics
- Treatment

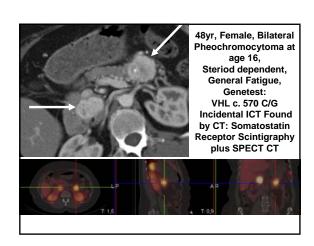
Prevalence The Freiburg VHL Registry 590 Patients with ICT and Abdominal MRT 48 Additional Patients with ICT but only with CT 11 **Patients with Autopsy** 1/4 Prevalence 60/590 10% Gender: Females:Males 39:21 Age at Diagnosis 13-75 **Symptomatic** 1/60

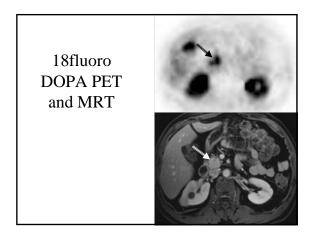


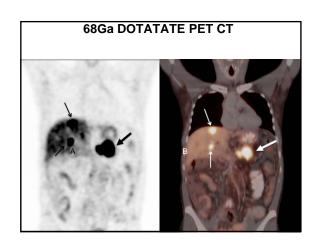


MRI and CT Imaging • MRI (n=23) • Sensitivity 100% • Spefificity 96% • CT (n=19) • Sensitivity 89% • Spefificity 79%

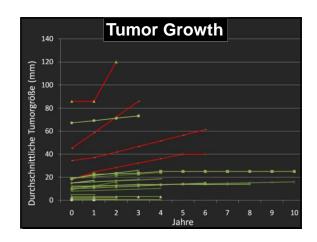


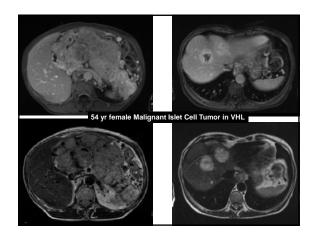




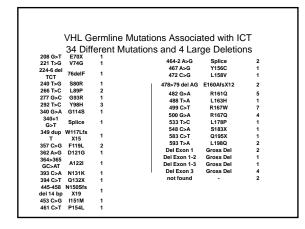


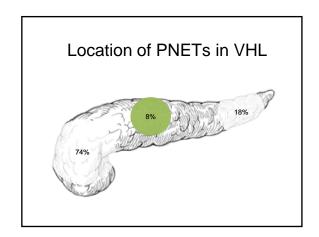
Nuclear Medicine Imaging		
Octreoscan (99Tc/111In)	(n=14)	
Sensitivity	12+	86%
• 18fluoro DOPA PET	(n=7)	
 Sensitivity 	2+	29%
• 68Ga DOTATATE PET	(n=4)	
 Sensitivity 	4+	100%
• 123iodo MIBG	(n=6)	
Sensitivity	1+	16%
18fluoro FDG PET CT	(n=2)	
Sensitivity	2+	100%

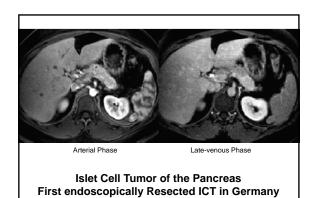




• Size of Malignant ICT 3-x cm







now n=3; important option, if located in the tail Laura von Ducker et al World J Surg 2011



