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Author <b>Gustaf Kylberg</b>		
Title (English) <b>Implementation of an algorithm for differential diagnosis of patients with Parkinsonistic symptoms</b>		
Title (Swedish)		
Abstract The disorders with Parkinsonistic symptoms overlap both clinically and pathologically. Therefore differential diagnosis becomes difficult, especially early after disease onset. Studying the brain metabolism with PET FDG and the dopamine transporter system with SPECT DAT imaging several differences between the disorders can be seen. Today neurologists at Uppsala University Hospital analyze this imaging data and combine it with the clinical data manually to make a diagnosis. This is a possible limitation and to fully use the information embedded in the data this thesis project aimed to develop a diagnostic algorithm that takes the imaging datasets and clinical data as input and propose a suitable diagnosis. The developed algorithm has the potential to, in the future, serve as tool for combining information and generating a second opinion when making the differential diagnosis of patients with Parkinsonistic symptoms.		
Keywords classification system, differential diagnosis, Parkinson's syndrome, Parkinsonian syndromes, Parkinsonistic symptoms, DaTSCAN, PET FDG		
Supervisors <b>Lennart Thurfjell</b> Director Diagnostic Software, GE Healthcare Uppsala Imanet		
Scientific reviewer <b>Bengt Långström</b> Department of Biochemistry & Organic Chemistry, Uppsala University		
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<b>Biology Education Centre</b> Box 592 S-75124 Uppsala	<b>Biomedical Center</b> Tel +46 (0)18 4710000	<b>Husargatan 3 Uppsala</b> Fax +46 (0)18 555217