PET/CT and dedicated PET in breast cancer: Implications for classification, staging, and response monitoring

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Comparing Global Initiative for Asthma (GINA) criteria with the Childhood Asthma Control Test (C-ACT) and Asthma Control Test (ACT)

**BB Koolen**, MWH Pijnenburg, HJL Brackel, AM Landstra, NJ van den Berg, PJFM Merkus, WCJ Hop, AAPH Vaessen-Verberne

*Eur Respir J* 2011; 38: 561-6

Validation of a web-based version of the asthma control test and childhood asthma control test

**BB Koolen**, MWH Pijnenburg, HJL Brackel, AM Landstra, NJ van den Berg, PJFM Merkus, WCJ Hop, AAPH Vaessen-Verberne

*Pediatr Pulmonol* 2011; 46: 941-8

18F-FDG PET/CT as a staging procedure in primary stage II and III breast cancer: comparison with conventional imaging techniques

**BB Koolen**, MJTFD Vrancken Peeters, TS Aukema, WV Vogel, HSA Oldenburg, JA van der Hage, CA Hoefnagel, MPM Stokkel, CE Loo, S Rodenhuis, EJTh Rutgers, RA Valdés Olmos

*Breast Cancer Res Treat* 2012; 131: 117-26

FDG-avid sclerotic bone metastases in breast cancer patients: a PET/CT case series

**BB Koolen**, E Vegt, EJTh Rutgers, WV Vogel, MPM Stokkel, CA Hoefnagel, A Fioole-Bruining, MJTFD Vrancken Peeters, RA Valdés Olmos

*Ann Nucl Med* 2012; 26: 86-91

Clinical evaluation of a new tracheal impedance cardiography method

SCJ van der Kleij, **BB Koolen**, DA Newhall, BM Gerritse, PMJ Rosseel, TA Rijpstra, FEA Geisler, NJM van der Meer

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Molecular imaging in breast cancer: from whole body PET/CT to dedicated breast PET

**BB Koolen**, WV Vogel, MJTFD Vrancken Peeters, CE Loo, EJTh Rutgers, RA Valdés Olmos

*J Oncol* 2012; 2012: 438647

Locoregional lymph node involvement on 18F-FDG PET/CT in breast cancer patients scheduled for neoadjuvant chemotherapy

**BB Koolen**, RA Valdés Olmos, PHM Elkhuizen, WV Vogel, MJTFD Vrancken Peeters, S Rodenhuis, EJTh Rutgers

*Breast Cancer Res Treat* 2012; 135: 231-40

Association of primary tumour FDG uptake with clinical, histopathological, and molecular characteristics in breast cancer patients scheduled for neoadjuvant chemotherapy

**BB Koolen**, MJTFD Vrancken Peeters, J Wesseling, EH Lips, WV Vogel, TS Aukema, E van Werkhoven, KGA Gilhuijs, S Rodenhuis, EJTh Rutgers, RA Valdés Olmos

*Eur J Nucl Med Mol Imaging* 2012; 37: 1830-8
FDG PET/CT during neoadjuvant chemotherapy may predict response in ER-positive/HER2-negative and triple negative, but not in HER2-positive breast cancer

**BB Koolen**, KE Pengel, J Wesseling, WV Vogel, MJTFD Vrancken Peeters, AD Vincent, KGA Gilhuijs, S Rodenhuis, EJTh Rutgers, RA Valdés Olmos

*Breast 2013, in press*

First clinical experience with a dedicated PET for hanging breast molecular imaging

**BB Koolen**, TS Aukema, AJ González Martinez, WV Vogel, L Caballero Ontanaya, MJTFD Vrancken Peeters, CJJ Vroonland, EJTh Rutgers, JM Benlloch Baviera, RA Valdés Olmos

*Q J Nucl Med Mol Imaging 2013, in press*

Early assessment of axillary response with 18F-FDG PET/CT during neoadjuvant chemotherapy in stage II-III breast cancer: implications for surgical management of the axilla

**BB Koolen**, RA Valdés Olmos, J Wesseling, WV Vogel, AD Vincent, KGA Gilhuijs, S Rodenhuis, EJTh Rutgers, MJTFD Vrancken Peeters

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Accuracy of 18F-FDG PET/CT for primary tumor visualization and staging in T1 breast cancer

**BB Koolen**, F van der Leij, WV Vogel, EJTh Rutgers, MJTFD Vrancken Peeters, PHM Elkuizen, RA Valdés Olmos

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Breast cancer subtyping by immunohistochemistry and histological grade outperforms breast cancer intrinsic subtypes in predicting neoadjuvant chemotherapy response

EH Lips, L Mulder, JJ de Ronde, IAM Mandjes, **BB Koolen**, J Wesseling, S Rodenhuis

*Revisions submitted*

Pre-chemotherapy 18F-FDG PET/CT upstages nodal stage in stage II-III breast cancer patients treated with neoadjuvant chemotherapy

**BB Koolen**, RA Valdés Olmos, WV Vogel, MJTFD Vrancken Peeters, S Rodenhuis, EJTh Rutgers, PHM Elkuizen

*Submitted*

Association of perioperative troponin and atrial fibrillation after coronary artery bypass grafting

**BB Koolen**, JAM Labout, PGH Mulder, BM Gerritse, TA Rijpstra, M Bentala, PMJ Rosseel, NJM van der Meer

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Evaluating heterogeneity of primary tumor FDG uptake in breast cancer with a dedicated breast PET (MAMMI): a feasibility study based on correlation with PET/CT

**BB Koolen**, S Vidal Sicart, JM Benlloch, RA Valdés Olmos

*Submitted*
Does the pretreatment tumor sampling location correspond with metabolic activity on 18F-FDG PET/CT in breast cancer patients scheduled for neoadjuvant chemotherapy? LE Elshof, BB Koolen, CE Loo, J Wesseling, MJTFD Vrancken Peeters, WV Vogel, EJTh Rutgers, RA Valdés Olmos

Submitted

Sequential 18F-FDG PET/CT for early prediction of complete pathological response in breast and axilla during neoadjuvant chemotherapy. BB Koolen, KE Pengel, J Wesseling, WV Vogel, MJTFD Vrancken Peeters, AD Vincent, KGA Gilhuijs, S Rodenhuis, EJTh Rutgers, RA Valdés Olmos

Submitted

Combined use of 18F-FDG PET/CT and MRI for response monitoring of breast cancer during neoadjuvant chemotherapy – initial results in 93 patients KE Pengel, BB Koolen, CE Loo, WV Vogel, J Wesseling, EH Lips, EJTh Rugers, RA Valdés Olmos, MJTFD Vrancken Peeters, S Rodenhuis, KGA Gilhuijs

Submitted

Published abstracts: (co-)author of over 20 abstracts presented at various (inter)national conferences