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## Methods and validation of nodule measurement in a lung cancer screening

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Publisher's PDF, also known as Version of record

*Publication date:*

2010

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*Citation for published version (APA):*

Wang, Y. (2010). *Methods and validation of nodule measurement in a lung cancer screening*. [Thesis fully internal (DIV), University of Groningen]. [s.n.].

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## List of publications

1. Wang Y, van Klaveren RJ, de Bock GH, Zhao Y, Leusveld AL, Scholten E, Verschakelen J, Mali W, de Koning H, Oudkerk M. Benefit of consensus double reading during baseline lung cancer CT screening. (Submitted to Radiology)
2. van Klaveren RJ, Oudkerk M, Prokop M, Scholten ET, Nackaerts K, Vernhout R, van Iersel CA, van den Bergh KA, van 't Westeinde S, van der Aalst C, Thunnissen E, Xu DM, Wang Y, Zhao Y, Gietema HA, de Hoop BJ, Groen HJ, de Bock GH, van Ooijen P, Weenink C, Verschakelen J, Lammers JW, Timens W, Willebrand D, Vink A, Mali W, de Koning HJ. Management of lung nodules detected by volume CT scanning. *N Engl J Med*. 2009 Dec 3;361(23):2221-9.
3. Wang Y, de Bock GH, van Klaveren RJ, van ooijen P, Tukker W, Zhao Y, Dorrius M.D, Vliegenthart R, Post WJ, Oudkerk.M. Volumetric measurement of pulmonary nodules at low dose chest CT: Effect of reconstruction setting on measurement variability. *Eur Radiol*. 2010 May;20(5):1180-7.
4. Xu DM, van Klaveren RJ, de Bock GH, Leusveld AL, Dorrius MD, Zhao Y, Wang Y, de Koning HJ, Scholten ET, Verschakelen J, Prokop M, Oudkerk M. Role of baseline nodule density and changes in density and nodule features in the discrimination between benign and malignant solid indeterminate pulmonary nodules. *Eur J Radiol*. 2009 Jun; 70(3):492-8
5. Xu DM, van der Zaag-Loonen HJ, Oudkerk M, Wang Y, Vliegenthart R, Scholten ET, Verschakelen J, Prokop M, de Koning HJ, van Klaveren RJ. Smooth or attached solid indeterminate nodules detected at baseline CT screening in the NELSON study: cancer risk during 1 year of follow-up. *Radiology*. 2009 Jan;250(1):264-72
6. Xu DM, van Klaveren RJ, de Bock GH, Leusveld A, Zhao Y, Wang Y, Vliegenthart R, de Koning HJ, Scholten ET, Verschakelen J, Prokop M, Oudkerk M. Limited value of shape, margin and CT density in the discrimination between benign and malignant screen detected solid pulmonary nodules of the NELSON trial. *Eur J Radiol*. 2008 Nov;68(2):347-52
7. Wang Y, van Klaveren RJ, van der Zaag-Loonen HJ, de Bock GH, Gietema HA, XuDM, Leusveld AL, de Koning HJ, Scholten ET, Verschakelen J, Prokop M, Oudkerk M. Effect of nodule characteristics on variability of semiautomated volume measurements in pulmonary nodules detected in a lung cancer screening program. *Radiology*. 2008 Aug;248(2):625-31

8. van de Wiel JC, Wang Y, Xu DM, van der Zaag-Loonen HJ, van der Jagt EJ, van Klaveren RJ, Oudkerk M; NELSON study group. Neglectable benefit of searching for incidental findings in the Dutch--Belgian lung cancer screening trial (NELSON) using low-dose multidetector CT. *European Radiology*. 2007 Jun; 17(6):1474-82.
9. Gietema HA, Wang Y, Xu D, van Klaveren RJ, de Koning H, Scholten E, Verschakelen J, Kohl G, Oudkerk M, Prokop M. Pulmonary Nodules Detected at Lung Cancer Screening: Interobserver Variability of Semiautomated Volume Measurements. *Radiology*. 2006 Oct; 241(1):251-7
10. Miao JT, Wang Y, Li ZY, Hu YS. The value of MR dynamic time-resolved subtracted imaging in evaluating the blood supply by systemic artery in patients with lung cancer. *Chinese journal of lung cancer* 2003 6 (1): 13-17. (In Chinese)
11. Li ZY, Miao JT, Wang Y, Hu YS. A preliminary application of MR dynamic time-resolved subtracted perfusion imaging to qualitative and partial-quantitative evaluation of the blood supply by pulmonary artery in peripheral lung cancer. *Chinese journal of lung cancer* 2003 6 (1): 22-25. (In Chinese)

**Conference presentations:**

1. Wang Y et al. Benefit of consensus double reading during baseline lung cancer CT screening. ICIS 2009 Salzburg, Austria, October 2009, Oral presentation
2. Wang Y et al. Volumetric measurement of pulmonary nodules at low dose chest CT: Effect of reconstruction setting on measurement variability. ECR 2009, Vienna, Austria, March, 2009, oral presentation.
3. Wang Y et al. The Added Value of Consensus Double Reading in Baseline Scans of a Lung Cancer Screening Trial. ECR 2008, Vienna, Austria, March, 2008, oral presentation.
4. Wang Y et al. The Added Value of Consensus Double Reading in Baseline Scans of a Lung Cancer Screening Trial. RSNA 93rd Scientific Assembly and Annual Meeting, Chicago, November 2007, oral presentation.
5. Wang Y et al. Variability of volumetric measurements of small pulmonary nodules with LungCare(r) software at chest low-dose CT in Dutch-Belgian lung cancer screening study (NELSON study). ECR 2007, Vienna, Austria, March, 2008, oral presentation
6. Wang Y et al. Influence of nodule characteristics on variability of software generated volumetric measurements of small pulmonary nodules. ECR 2007 Vienna, Austria, March, 2007, oral presentation

7. Wang Y et al. “Reproducibility of Volumetric Measurements of Small Pulmonary Nodules with LungCare® Software at Chest Low-dose CT in Dutch-Belgian Lung Cancer Screening Study (NELSON Study)”, RSNA 92nd Scientific Assembly and Annual Meeting, Chicago, November 2006, oral presentation
8. Wang Y et al. Trial design and first screening results from the Dutch-Belgian trial on lung cancer screening by 16-MDCT (NELSON study). The 1st World Congress on Thoracic Imaging and Diagnosis in Chest Disease, Florence, Italy. May 2005, poster presentation