

QAngio XA 3D RE Publications

- 1. Tu S, Koning G, Jukema W, Reiber JHC.**
Assessment of obstruction length and optimal viewing angle from biplane X-ray angiograms.
Intern J Cardiovasc Imaging 2010, 26:5–17.
- 2. Tu S, Huang Z, Koning G, Cui K, Reiber JHC.**
A novel three-dimensional quantitative coronary angiography system: In-vivo comparison with intravascular ultrasound for assessing arterial segment length.
Cath Cardiovasc Interv 2010; 76:291-298.
- 3. Tu S, Hao P, Koning G, Wei X, Song X, Chen A, Reiber JHC.**
In-vivo assessment of optimal viewing angles from X-ray coronary angiograms.
EuroIntervention 2011, 7:112-120.
- 4. Tu S, Holm N, Koning G, Maeng M, Reiber JHC.**
The impact of acquisition angle difference on three-dimensional quantitative coronary angiography.
Cath Cardiovasc Interv 2011, 78:214-222.
- 5. Tu S, Holm NR, Koning G, Huang Z, Reiber JHC.**
Fusion of 3D QCA and IVUS/OCT.
Intern J Cardiovasc Imaging 2011; 27:197–207.
- 6. Reiber JHC, Tu S, Tuinenburg JC, Koning G, Janssen JP, Dijkstra J.**
QCA, IVUS and OCT in Interventional Cardiology in 2011.
Cardiovasc Diagn and Therapy 2011; 1:57-70.
- 7. Tu S, Jing J, Holm NR, Onsea K, Zhang T, Adriaenssens T, Dubois C, Desmet W, Thuesen L, Chen Y, Reiber JHC.**
In vivo assessment of bifurcation optimal viewing angles and bifurcation angles by three-dimensional (3D) quantitative coronary angiography.
Int J Cardiovasc Imaging 2012, 28:1617-1625.
- 8. Tu S, Xu L, Ligthart J, Xu B, Witberg K, Sun Z, Koning G, Reiber JHC, Regar E.**
In-vivo Comparison of Arterial Lumen Dimensions Assessed by Co-registered Three-dimensional (3D) Quantitative Coronary Angiography, Intravascular Ultrasound and Optical Coherence Tomography.
Int J Cardiovasc Imaging 2012, 28:1315-1327.
- 9. Tu S, Holm NR, Christiansen EH, Reiber JHC.**
First Presentation of 3-Dimensional Reconstruction and Centerline-guided Assessment of Coronary Bifurcation by Fusion of X-ray Angiography and Optical Coherence Tomography.
JACC: Cardiovasc Interv 2012, 5:884-885
- 10. Tu S, Pyxaras SA, Li Y, Barbato E, Reiber JHC, Wijns W.**
In-vivo flow simulation at coronary bifurcation reconstructed by fusion of three-dimensional X-ray angiography and optical coherence tomography.

Circulation: Cardiovasc Interv. 2013, 6:e15-e17.

11. **Pyxaras SA, Tu S, Barbato E, Reiber JHC, Wijns W.**
Optimization of Tryton Dedicated Coronary Bifurcation System with Co-Registration of Optical Coherence Tomography and Fractional Flow Reserve.
JACC: Cardiovasc Interv 2013; 6:e39-40.
12. **Pyxaras SA, Tu S, Barbato E, Barbati G, Di Serafino L, De Vroey F, Toth G, Mangiacapra F, Sinagra G, De Bruyne B, Reiber JHC, Wijns W.**
Quantitative angiography and optical coherence tomography for the functional assessment of non-obstructive coronary stenoses: comparison with fractional flow reserve.
Am Heart J 2013; 166:1010-1018.
13. **Tu S, Pyxaras SA, Li Y, Barbato E, Reiber JHC, Wijns W.**
In vivo flow simulation at coronary bifurcation reconstructed by fusion of 3-dimensional X-ray angiography and optical coherence tomography.
Circulation: Cardiovasc Interv 2013, 6:e15-e17.
14. **von Birgelen C, Tandjung K, Lam MK.**
Aspiration of intact coronary bifurcation thrombus in ST-elevation myocardial infarction.
Int J Cardiol 2014;172:e245-246.
15. **Han Y, Jing J, Tu S, Tian F, Xue H, Chen W, Chen J, Reiber JH, Chen Y.**
ST elevation acute myocardial infarction accelerates non-culprit coronary lesion atherosclerosis.
Int J Cardiovasc Imaging. 2014; 30:253-261.
16. **Tu S, Barbato E, Kőszegi Z, Yang J, Sun Z, Holm NR, Tar B, Li Y, Rusinaru D, Wijns W, Reiber JHC.**
Fractional Flow Reserve Calculation from 3-dimensional quantitative coronary angiography and TIMI frame count: A fast computer model to quantify the functional significance of moderately obstructed coronary arteries.
JACC Cardiovasc Intv 2014; 7:768-77.
17. **Karanasos A, Li Y, Tu S, Wentzel JJ, Reiber JHC, Geuns R-J van, Regar E.**
Is it safe to implant bioresorbable scaffolds in ostial side-branch lesions? Impact of “neo-carina” formation in main-branch flow pattern. Longitudinal clinical observations.
Atherosclerosis 238; 2015: 22-25
18. **Hebsgaard L, Nielsen TM, Tu S, Krusell LR, Maeng M, Veien KT, Raungaard B, Terkelsen CJ, Kalsoft A, Reiber JHC, Lassen JF, Christiansen EH, Holm NR**
Co-registration of optical coherence tomography and X-ray angiography in percutaneous coronary intervention. The Does Optical Coherence Tomography Optimize Revascularization (DOCTOR) Fusion Study.
Int J Cardiology 2015; 182: 272-280

19. **Toutouzas K, Chatzizisis YS, Riga M, Giannopoulos A, Antoniadis AP, Tu S, Fujino Y, Mitsouras D, Doulaverakis C, Tsampoulatidis I, Koutkias VG, Bouki K, Li Y, Chouvarda I, Cheimariotis G, Maglaveras N, Kompatsiaris I, Nakamura S, Reiber JHC, Rybicki F, Karvounis H, Stefanadis C, Tousoulis D, Giannoglou GD**
Accurate and reproducible reconstruction of coronary arteries and endothelial shear stress calculation using 3D OCT: comparative study to 3D IVUS and 3D QCA.
Atherosclerosis 2015; 240: 510-519.
20. **Köszegi Z, Szegedi Z, Kiss T, Jenei C, Tar B, Polgár P**
The change of the bending angles at the edges of the stent correlates with the baseline local bending angle but not with the global straightening effect of the stent
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21. **Tu S, Bourantas CV, Nørgaard BL, Kassab GS, Koo B-K, Reiber JHC**
Image-based assessment of fractional flow reserve.
EuroIntervention 2015; 11: V50-V54
22. **Suetomi T, Okamura T, Nakao F, Yamada J, Oda T, Mochizuki M, Miyazaki Y, Nakamura T, Yano M**
Impact of jailing configuration and bifurcation angle on incomplete stent apposition after single crossover stenting with final kissing balloon dilatation, assessed by three-dimensional OCT.
Abstract EuroPCR 2015.
714. **Tu S, Westra JS, Yang J, Li Y, Holm NR, Reiber JHC**
Functional coronary assessment based on three-dimensional quantitative coronary angiography
In: Coronary stenosis imaging, structure and physiology, Part IV, Ch 25. 2nd Edition. J Escaned, Ed.
24. **Zhang D, Dou K**
Coronary bifurcation intervention: what role do bifurcation angles play?
J Interv Cardiology 2015; 28(3): 236-248
25. **Li Y, Gutiérrez-Chico JL, Holm NR, Yang W, Hebsgaard L, Christiansen EH, Mæng M, Lassen JF, Yan F, Reiber JHC, Tu S.**
Impact of Side Branch Modeling on Computation of Endothelial Shear Stress in Coronary Artery Disease: Coronary Tree Reconstruction by Fusion of 3D Angiography and OCT.
J Am Coll Cardio 2015; 66:125-35.
26. **Tu S, Echavarria-Pinto M, von Birgelen C, Holm NR, Pyxaras SA, Kumsars I, Lam MK, Valkenburg I, Toth GG, Li Y, Escaned J, Wijns W, Reiber JHC.**
Fractional flow reserve and coronary bifurcation anatomy: A novel quantitative model to assess and report the stenosis severity of bifurcation lesions.
JACC Cardiovasc Interv 2015; 8:564-74.
27. **Li J, Han Y, Jing J, Tu S, Chen W, Reiber JH, Chen Y.**

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- 28. Jenei C, Závodszy G, Paál G, Tar B, Köszegi Z**
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- 29. Antoniadis AP, Mortier P, Kassab G, Dubini G, Foin N, Murasato Y, Giannopoulos AA, Tu S, Iwasaki K, Hikichi Y, Migliavacca F, Chiastra C, Wentzel JJ, Gijzen F, Reiber JHC, Barlis P, Serruys PW, Bhatt DL, Stankovic G, Edelman ER, Giannoglou GD, Louvard Y, Chatzizisis YS**
Biomechanical modeling to improve coronary artery bifurcation stenting. Expert review document on techniques and clinical implementation.
J Am Coll Cardiol Interv 2015; 8: 1281-96.
- 30. Liu L, Yang W, Nagahara Y, Li Y, Lamooki SR, Muramatsu T, Kitslaar P, Sarai M, Ozaki Y, Barlis P, Yan F, Reiber JHC, Tu S.**
The impact of image resolution on computation of fractional flow reserve: coronary computed tomography angiography versus 3-dimensional quantitative coronary angiography.
Int J Cardiovasc Imaging 2016; 32: 513-523.
- 31. Secchi F, Ali M, Faggiano E, Cannao PM, Fedele M, Tresoldi S, Leo G Di, Auricchio F, Sardanelli F**
Fractional flow reserve based on computed tomography: an overview
Eur Heart J Suppl 2016; 18(Suppl E): E49-E56
- 32. Tu S, Westra J, Yang J, Birgelen C von, Ferrara A, Pellicano M, Nef H, Tebaldi M, Murasato Y, Lansky A, Barbato E, Heijden LC van der, Reiber JHC, Holm NR, Wijns W. on behalf of the FAVOR Pilot Trial Study Group.**
Diagnostic Accuracy of Fast Computational Approaches to Derive Fractional Flow Reserve from Diagnostic Coronary Radiographic Angiography. The International Multicenter FAVOR Pilot Study
J Am Coll Cardiol Interv 2016; 9: 2024-35
- 33. Giddens DP (Editorial Comment)**
Computing Fractional Flow Reserve during coronary angiography. How good is good enough?
J Am Coll Cardiol Interv 2016; 9(19): 2036-38
- 48. Huang D, Muramatsu T, Li Y, Yang W, Nagahara Y, Chu M, Kitslaar P, Sarai M, Ozaki Y, Chatzizisis Y, Yan F, Reiber JHC, Wu R, Pu J, Tu S.**
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