

Study Name:

Nijmegen Bladder Cancer Study

Institution:Radboud University Nijmegen Medical Centre (RUNMC)
Nijmegen, the Netherlands
Comprehensive Cancer Centre East (IKO)
Nijmegen, the Netherlands**Principal Investigators:**Prof. Dr. Lambertus (Bart) A. Kiemeny (RUNMC)
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NL-6500 HB Nijmegen, the Netherlands**Key References:**Kiemeny LA, Sulem P, Besenbacher S, et.al. A sequence variant at 4p16.3 confers susceptibility to urinary bladder cancer. Nat Genet 2010; 42(5): 415-9.
Kiemeny LA, Thorlacius S, Sulem P, et.al. Sequence variant on 8q24 confers susceptibility to urinary bladder cancer. Nat Genet 2008; 40(11): 1307-1312.Comprehensive Cancer Centre East (IKO)
P.O. Box 1281
NL-6501 BG Nijmegen, the Netherlands**Additional researchers:**Prof. Dr. J. Alfred (Fred) Witjes, RUNMC
Dr. Martin den Heijer, RUNMC
Dr. Dorine Swinkels, RUNMC
Dr. Barbara Franke, RUNMC**Study Design:**

Population-based case-control. Cases have been retrospectively and are prospectively being identified and recruited from the population-based cancer registry of IKO

Matching factors:**Country:**

the Netherlands

ICD-0-3 morphology codes:

8000, 8020, 8041, 8045, 8070, 8071, 8120, 8130, 8140, 8246, 8480, 8481, 8490, 8560, 8700

Follow up of cases? Yes**Expected time of follow-up?**

Currently 1-15 years

	Cases	Controls
Years of enrollment	2007-2010 (years of diagnosis 1975-2009)	2002-2003
Source population	IKO Population-based cancer registry, covering 8 hospitals and 1.3 million inhabitants	Nijmegen Municipal Population Administration covering 150,000 inhabitants
Response rate (enrolled/eligible)	62%	9,350 / 21,756 -> 43%
Total number enrolled	1974	9,350
Subjects with DNA	1914	6468
Ethnic origin	>99% Caucasian	>99% Caucasian
Age: mean (range)	62.3 range (25-93)	54 (18 – 100)
Gender: % males	81.5%	46

Questionnaire data	Cases	Controls
Demographics (age, sex, ethnicity, region, education etc..)	x	x
Active smoking	x	x
Passive smoking		
Occupational exposures	x	x
Residential history		
Water chlorination byproducts		
Arsenic exposure		
Other environmental exposures		
Hair dye use	x	x
Drug use	x	x
Medical History	x	x
Family History	x	x
Quality of life		
Diet/nutrition	x	x

Caffeine intake		x
Fluid intake	x	
Urine pH measurements		
Other information, please specify:	physical activity, artificial sweeteners, urination frequency	physical activity
* incl. urinary tract infections treated with antibiotics, bladder stones, catheter, X-ray exposure abdomen/pelvis		
# exposure during conception / pregnancy first child, including cosmetic products, X-ray, anaesthetics, cytostatics, industrial cleaners, paint, pesticides.		

Biological Samples	Cases	Controls
Blood DNA	x	x
Buccal DNA	-	-
Serum/plasma	-	x
Cryopreserved whole blood / lymphocytes	-	-
Red blood cells	-	-
Urine samples	-	x
Toenail clippings	-	-
Others, please specify	-	-
Paraffin tissue blocks	x	
Frozen tissue	-	

For Cases Only

Information at time of diagnosis	
Histological confirmation	x
Number of tumors	
Tumor site	x
Tumor size	
Tumor grade	x
Growth pattern	
Treatment of primary tumor	x
Stage	x
Other information, please specify	
Follow-up information	
Treatment information	
Tumor recurrence	x
Tumor progression	x
Survival	x
Histological confirmation	x
Number of tumors	x
Tumor site	x
Tumor size	x
Tumor grade	x
Growth pattern	x
Stage	x
Active smoking	x
Occupational exposures	
Drug use	
Medical History	x
Quality of life	
Caffeine intake	
Fluid intake	
Other information , please specify	