

Study Name (Symbol): Spanish Bladder Cancer Study (SBCS)	Institution/s: National Cancer Institute Division of Cancer Epidemiology and Genetics (NCI-DCEG), Rockville, MD Institut Municipal d'Investigacio Medica (IMIM), Barcelona, Spain
Principal Investigators: NCI-DCEG: Debra Silverman, Nathaniel Rothman, Montse Garcia-Closas IMIM: Manolis Kogevinas, Nuria Malats, Paco Real	Institution/s address: NCI-DCEG 6120 Executive Boulevard Bethesda, MD USA 20852-7234 IMIM Centre for Research in Environmental Epidemiology (CREAL), Respiratory and Environmental Health Research Unit, Dr Aiguader 80, 08003 Barcelona, Spain
Key References: Rothman N et al. <i>Nature Gen.</i> 2010 Nov;42(11):978-84 Cantor K et al. <i>Environ Health Perspect.</i> 2010 Jul 30. [Epub] Silverman DT. <i>Int J Cancer.</i> 2008 Oct 1;123(7):1644-8. Samanic C et al. <i>Cancer Epidemiol Biomarkers Prev.</i> 2006 Jul;15(7):1348-54 Lopez-Knowles E et al. <i>Clin Cancer Res.</i> 2006 Oct 15;12(20 Pt 1):6029-36 Garcia-Closas M et al. <i>Lancet.</i> 2005 Aug 20-26;366(9486):649-59	Additional researchers: Kenneth Cantor, NCI-DCEG Joan Fortuny, IMIM Montserrat Garcia-Closas, NCI-DCEG Lee Moore, NCI-DCEG Jonine Figueroa, NCI-DCEG Joanne Colt, NCI-DCEG Ludmila Prokunina, NCI-DCEG Claudine Samanic, NCI-DCEG Stephen Chanock, NCI-DCEG
IRB Information Name of PI for the IRB approved protocol Debra Silverman	

Study Design: Hospital based Case-Control	Matching factors: Gender, age, hospital/region	Country: Spain
ICD-0-3 morphology codes: 81203, 80703, 81303, 81403	Follow up of cases? Yes	Expected time of follow-up? 64 - 90 months

Urinary Bladder ICD-0-3 morphology codes: Transitional cell carcinoma (81203); Papillary carcinoma (81303); Squamous cell carcinoma (80703); Adenocarcinoma (81403); Leiomyosarcoma (88903)

	Cases	Controls
Years of enrollment	1998-2001	1998-2001
Source population	18 hospitals in 5 regions of Spain	18 hospitals in 5 regions of Spain
Response rate (enrolled/eligible)	84%	88%
Total number enrolled	1219	1271
Subjects with DNA	1150	1149
Ethnic origin	99% Caucasian	99% Caucasian
Age: mean (range)	66 (21-80)	65(21-80)
Gender: % males	87%	87%

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

Caffeine intake	X	X
Fluid intake	X	X
Urine pH measurements	X	X
Other information, please specify	-	-

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

For Cases Only

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