

## Selection of cases and controls

<b>Supplementary Table 1</b>		
	<b>Cases (n)</b>	<b>Controls (n)</b>
All gout-cases diagnosed 2006-2012, no gout diagnosis 2000-2005, and matched controls	7616	37147
Cases not part of workforce and their matched controls	-1492	-5935
Controls not part of workforce		-6138
Cases with no remaining controls	-4	
<b>Remaining</b>	<b>6120</b>	<b>25074</b>
<b>Cases with ULT before index date and their matched controls</b>	<b>-1076</b>	<b>-4290</b>
<b>Controls with ULT before index date</b>		<b>-102</b>
<b>Cases with no remaining controls</b>	<b>-2</b>	
<b>Remaining, included for analysis</b>	<b>5042</b>	<b>20682</b>

## Definition of comorbidities

Comorbidities and medication used in the analyses or for descriptive purposes were defined by the presence of ICD-codes and ATC-codes in the VEGA-database and the Prescriptive drug register respectively.

<b>Supplementary table 2. Definition of comorbidities and medication use</b>		
<b>Comorbidity/medication use</b>	<b>ICD-10 code</b>	<b>ATC code</b>
Hypertension	I10-I15	
Use of diuretics		C03A, C03B, C03C C07BB, C09BA02/03/05/06/08/09/1 5, C09CA01, C09DA01-04, C09DA06-07, C09XA52/54
Obesity	E66	
Diabetes	E10-14, O24	
Renal disease	N00-N08, N11-22	
Coronary heart disease (CHD)	I20-I25	
Atrial fibrillation	I48	
Alcoholism	Z72.1, F10	
Thromboembolism	I26, I70-I72, I80-I82	
Congestive heart failure (CHF)	I50	
Psoriasis	L40	
Stroke	I60-I64, G45	
Chronic obstructive pulmonary disease (COPD)	J44	

## Associations between comorbidities known to increase SU and gout risk with exposure to inorganic dust

<b>Supplementary table 3. Crosstabulation of obesity and exposure to inorganic dust.</b>		
Exposed to inorganic dust	Obesity	
	No	Yes
No	21258 (95.4%)	1026 (4.6%)
Yes	8444 (94.8%)	466 (5.2%)
Cochran-Armitage Trend Test. Two-sided P = 0.0193		

<b>Supplementary table 4. Crosstabulation of alcoholism and exposure to inorganic dust.</b>		
Exposed to inorganic dust	Alcoholism	
	No	Yes
No	21816 (97.9%)	468 (2.1%)
Yes	8541 (95.9%)	369 (4.1%)
Cochran-Armitage Trend Test. Two-sided P = <0.0001		

<b>Supplementary table 5. Crosstabulation of renal disease and exposure to inorganic dust.</b>		
Exposed to inorganic dust	Renal Disease	
	No	Yes
No	21345 (95.8%)	939 (4.2%)
Yes	8512 (95.5%)	398 (4.47%)
Cochran-Armitage Trend Test. Two-sided P = 0.3188		

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<b>Supplementary table 6</b>
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<b>. Crosstabulation of psoriasis and exposure to inorganic dust.</b>		
Exposed to inorganic dust	Psoriasis	
	No	Yes
No	21653 (97.2%)	631 (2.8%)
Yes	8672 (97.3%)	238 (2.7%)
Cochran-Armitage Trend Test. Two-sided P = 0.4366		