

SUPPLEMENTARY MATERIAL

Intra-articular and soft tissue corticosteroid injections and risk of acute coronary syndrome: A cohort study

SUPPLEMENTARY BOX S1 - CODE LISTS

Codes used by the CHS chronic disease register (also augmented by disease-specific medication possession data and relevant codes of hospital procedures performed)

Ischemic Heart Disease

Icd9 code	Icd9 name
410	Acute myocardial infarction
4100	Acute myocardial infarction of anterolateral wall
41000	Ac. M.i. anterolateral, episode of care unsp.
41001	Ac. M.i. anterolateral, initial episode of care
41002	Ac. M.i. anterolateral, subsequent episode of care
4101	Acute myocardial infarction of other anterior wall
41010	Ac. M.i. other anterior, episode of care unsp.
41011	Ac. M.i. other anterior, initial episode of care
41012	Ac. M.i. other anterior, subsequent episode of care
4102	Acute myocardial infarction of inferolateral wall
41020	Ac. M.i. inferolateral, episode of care unsp.
41021	Ac. M.i. inferolateral, initial episode of care
41022	Ac. M.i. inferolateral, subsequent episode of care
4103	Acute myocardial infarction of inferoposterior wall
41030	Ac. M.i. inferoposterior, episode of care unsp.
41031	Ac. M.i. inferoposterior, initial episode of care
41032	Ac. M.i. inferoposterior, subsequent episode of care
4104	Acute myocardial infarction of other inferior wall
41040	Ac. M.i. other inferior, episode of care unsp.
41041	Ac. M.i. other inferior, initial episode of care
41042	Ac. M.i. other inferior, subsequent episode of care
4105	Acute myocardial infarction of other lateral wall
41050	Ac. M.i. othe lateral, episode of care unsp.
41051	Ac. M.i. other lateral, initial episode of care
41052	Ac. M.i. other lateral, subsequent episode of care
4106	True posterior wall infarction
41060	Ac. M.i. true posterior, episode of care unsp.
41061	Ac. M.i. true posterior, initial episode of care
41062	Ac. M.i. true posterior, subsequent episode of care
4107	Subendocardial infarction
41070	Ac. M.i. subendocardial, episode of care unsp.
41071	Ac. M.i. subendocardial, initial episode of care
41072	Ac. M.i. subendocardial, subsequent episode of care
4108	Acute myocardial infarction of other specified sites
41080	Ac. M.i. other specified sites, episode of care unsp.
41081	Ac. M.i. other specified sites, initial episode of care
41082	Ac. M.i. other specified sites, subsequent episode of care
4109	Acute myocardial infarction of unspecified site
41090	Ac. M.i. unsp. Site, episode of care unsp.
41091	Ac. M.i. unsp. Site, initial episode of care
41092	Ac. M.i. unsp. Site, subsequent episode of care
4110	Postmyocardial infarction syndrome
412	Old myocardial infarction

Obesity

Icd9 Code	Icd9 Name
278	Obesity and other hyperalimentation
2700	Obesity
27800	Obesity, unspecified
27801	Morbid obesity
75981	Prader-Eilli Syndrome

The codes were augmented by a free-text search using the following strings:

“%obes%” and NOT “%lobes%”

Diabetes

Icd9 code	Icd9 name
250	Diabetes mellitus
2500	Diabetes mellitus without mention of complication
25000	Adult-onset type diabetes mellitus without complication
25001	Juvenile type diabetes mellitus without mention of complication
25002	Diabetes mellitus without complication, type ii, uncontrolled
25003	Diabetes mellitus without complication, type i, uncontrolled
2501	Diabetes with ketoacidosis
25010	Adult-onset type diabetes mellitus with ketoacidosis
25011	Juvenile type diabetes mellitus with ketoacidosis
25012	Diabetes with ketoacidosis, type ii, uncontrolled
25013	Diabetes with ketoacidosis, type i, uncontrolled
2502	Diabetes with hyperosmolar coma
25020	Adult-onset type diabetes mellitus with hyperosmolar coma
25021	Juvenile type diabetes mellitus with hyperosmolar coma
25022	Adult-onset diabetes, uncontrolled, with hyperosmolarity
25023	Juvenile diabetes, uncontrolled, with hyperosmolarity
2503	Diabetes with other coma
25030	Adult-onset type diabetes mellitus with other coma
25031	Juvenile type diabetes mellitus with other coma
25032	Adult-onset diabetes, uncontrolled, with other coma
25033	Juvenile diabetes, uncontrolled, with other coma
2504	Diabetes with renal manifestations
25040	Adult-onset type diabetes mellitus with renal manifestations
25041	Juvenile type diabetes mellitus with renal manifestations
25042	Diabetes with renal manifestations, type ii, uncontrolled
25043	Diabetes with renal manifestations, type i, uncontrolled
2505	Diabetes with ophthalmic manifestations
25050	Adult-onset diabetes mellitus with ophthalmic manifest.
25051	Juvenile type diabetes mellitus with ophthalmic manifestations
25052	Adult-onset diabetes, uncontrolled,+ ophthalmic manifestations
25053	Juvenile diabetes, uncontrolled, + ophthalmic manifestations
2506	Diabetes with neurological manifestations
25060	Adult-onset diabetes mellitus with neurological manifest.
25061	Juvenile diabetes mellitus with neurological manifest.
25062	Diabetes with neurological manifestations, type ii, uncontrolled
25063	Diabetes with neurological manifestations, type i, uncontrolled
2507	Diabetes with peripheral circulatory disorders
25070	Adult-onset diabetes mellitus with periph.circul.disorders
25071	Juvenile diabetes mellitus with periph.circulat.disorders
25072	Diabetes+peripheral circulatory disorders, type ii, uncontrolled

25073	Diabetes+peripheral circulatory disorders, type i, uncontrolled
2508	Diabetes with other specified manifestations
25080	Adult-onset diabetes mellitus with specified manifest.
25081	Juvenile diabetes mellitus with specified manifest.
25082	Adult-onset diabetes, uncontrolled, + spec. Manifestations
25083	Juvenile diabetes, uncontrolled, + spec. Manifestations
2509	Diabetes with unspecified complication
25090	Adult-onset type diabetes mellitus with unspecified complication
25091	Juvenile type diabetes mellitus with unspecified complication
25092	Diabetes + unsp. Complication, type ii, uncontrolled
25093	Diabetes + unsp. Complication, type i, uncontrolled
3620	Diabetic retinopathy
36201	Background diabetic retinopathy
36202	Proliferative diabetic retinopathy

Hypertension

Icd9 code	Icd9 name
401	Essential hypertension
4010	Malignant essential hypertension
4011	Benign essential hypertension
4019	Unspecified essential hypertension
402	Hypertensive heart disease
4020	Malignant hypertensive heart disease
40200	Malign.hypertensive heart dis.without congest.heart failure
40201	Malig.hypertensive heart dis.with congestive heart failure
4021	Benign hypertensive heart disease
40210	Benign hypertensive heart dis.without congest.heart failure
40211	Benign hypertensive heart dis.with congestive heart failure
4029	Unspecified hypertensive heart disease
40290	Unsp.hypertensive heart dis.without congestive heart failure
40291	Unsp.hypertensive heart disease with chf
403	Hypertensive renal disease
4030	Malignant hypertensive renal disease
40300	Malignant hypertensive renal dis. Without renal failure
40301	Malignant hypertensive renal dis.+ renal failure
4031	Benign hypertensive renal disease
40310	Benign hepertensive renal dis. Without renal failure
40311	Benign hypertensive renal dis.+ renal failure
4039	Unspecified hypertensive renal disease
40390	Unsp. Hypertensive renal dis. Without renal failure
40391	Unsp. Hypertensive renal dis.+ renal failure
404	Hypertensive heart and renal disease
4040	Malignant hypertensive heart and renal disease
40400	Malignant hypertensive heart +renal dis. Without congestive hear
40401	Malignant hypertensive heart +renal dis.+congestive heart failur
40402	Malignant hypertensive heart +renal dis.+ renal failure
40403	Malignant hypertensive heart +renal dis.+ congestive heart +crf
4041	Benign hypertensive heart and renal disease
40410	Benign hypertensive heart +renal dis. Without congestive heart f
40411	Benign hypertensive heart +renal dis.+ congestive heart failure
40412	Benign hypertensive heart +renal dis.+ renal failure
40413	Benign hypertensive heart +renal dis.+ congestive heart +renal
4049	Unspecified hypertensive heart and renal disease
40490	Unsp. Hypertensive heart + renal dis. Without congestive heart fa
40491	Unsp. Hypertensive heart +renal dis.+ congestive heart failure

40492	Unsp. Hypertensive heart +renal dis.+ renal failure
40493	Unsp. Hypertensive heart +renal dis.+ congestive heart +renal
405	Secondary hypertension
4050	Malignant secondary hypertension
40501	Malignant renovascular hypertension
40509	Other malignant secondary hypertension
4051	Benign secondary hypertension
40511	Benign renovascular hypertension
40519	Other benign secondary hypertension
4059	Unspecified secondary hypertension
40591	Unspecified renovascular hypertension
40599	Other unspecified secondary hypertension

SUPPLEMENTARY TABLE S1, Sensitivity analyses: Risk of ACS within seven days of an orthopaedic visit with corticosteroid injection. Excluding short admissions and restricted to visits with a subsequent admission

	Exposure	No ACS, No.	ACS, No.	OR, crude (95% CI)	P	OR, adjusted to age-group and sex (95% CI)	P
Excluding short (< one day) admissions	No CSI	57764	17	Ref	0.0033	Ref	0.0069
	CSI	3070	5	5.53 (1.77-17.33)		4.95 (1.57-15.58)	
Excluding short (< two day) admissions	No CSI	57772	9	Ref	0.0059	Ref	0.0162
	CSI	3072	3	6.27 (1.7-23.15)		5.37 (1.36-21.14)	
Including only visits followed by an admission (any length)	No CSI	287	18	Ref	0.0007	Ref	0.0004
	CSI	17	7	6.57 (2.21-19.50)		7.74 (2.48-24.19)	
Including only visits followed by an admission (≥ one day)	No CSI	288	17	Ref	0.0183	Ref	0.0126
	CSI	19	5	4.46 (1.29-15.42)		5.01 (1.41-17.78)	
Including only visits followed by an admission (≥ two days)	No CSI	296	9	Ref	0.0239	Ref	0.0255
	CSI	21	3	4.70 (1.23-17.99)		5.07 (1.22-21.08)	

Abbreviations: ACS, acute coronary syndrome; CI, confidence intervals; CSI, corticosteroid injection; OR, odds ratio; No., number