**SUPPLEMENTARY APPENDIX**

Table A1.*Serious skin infections categorized by ICD 10 coding categories*

|  |  |
| --- | --- |
| **Serious skin infection of typical sites\*** | **ICD-10** |
| Impetigo | L01.0-L01.1 |
| Cutaneous abscess, furuncle and carbuncle | L02.0-L02.9 |
| Cellulitis | L03.01-L03.9 |
| Acute lymphadenitis | L0.40-L04.9 |
| Pilonidal cyst with abscess | L05.0 |
| Pyoderma | L08.0 |
| Other infections of skin and subcutaneous tissue | L08.1, L08.8, L08.9 |
| **Serious skin infection of atypical sites\*** | **ICD-10** |
| Erysipelas | A46 |
| Hordeolum/cellulitis/abscess eyelid | H00.0 |
| Abscess/cellulitis external ear and infective otitis externa | H60.0-H60.3, H62.0, H62.4 |
| Abscess/cellulitis nose | J34.0 |
| Anal abscess/cellulitis (excludes rectal, ischiorectal or intersphincteric regions) | K61.0 |
| Acute inflammation/ cellulitis/ abscess of orbit | H05.0 |
| Other inflammatory disorders of penis, scrotum and unspecified male genital organ (excludes deeper tissues) | N48.2, N49.2,  N49.9 |
| Abscess/cellulitis of vulva | N76.4 |
| **Serious skin infections secondary to primary skin** **disease** | **ICD-10** |
| Varicella with other complications | B01.8 |
| Scabies | B86 |
| Dermatitis unspecified and other specified (eczema) and infective eczema† | L30.8, L30.9, L30.3 0 |
| **Serious skin infections secondary to external trauma** | **ICD-10** |
| Insect/spider bites | S10.13, S10.8, S10.93, S20.13, S20.33, S20.43, S20.83, S30.83, S30.93, S40.83,S50.83, S60.83,  S70.83, S80.83,S90.83  T00.9,T09.03, T11.08, T13.03, T14.03, T14.03, T63.3, T63.4 |
| Post-traumatic wound infection not elsewhere classified | T79.3 |
| Open wound infection with foreign body (+infection) and open wound with infection | T89.01, T89.02 |

\* Case definition based on skin infection sub-chapter of ICD-10.

† The medical definition of infective eczema (a primarily inflammatory condition) is not in keeping with the clinical description of a serious skin infection; however, due to similarities in terminology, this code is incorrectly used for eczema with a superficial bacterial infection.

This table is based on the work done by O’Sullivan *et al*. [2]

**Fig. A1**

Level 1: Individual cases

*N* = 68324

6391 (8.5%) observations dropped:

* 3631 overseas and short stay patients (4.8%)
* 1380 readmissions (1.8%)
* 836 Cancer and Type 1 Diabetes (1.1%)
* 281 missing NZdep (0.4%)
* 263 missing ethnicity (0.4%)

Individual cases

*N* = 74715