List of ICD codes used in this study

Codes for Ankylosing Spondylitis: ICD-8 code: 712.4, ICD-10 code: M45*

Codes for pneumonia ICD10: J12.x-J18.x, A481x, A709.x

ICD-10 codes for complication:

Empyema: DJ86

Pulmonary embolism: DI26

Pulmonary abscess: DJ85

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