

Appendix: Case definitions for indicators

Imaging for lower-back pain

Billing, Diagnosis, Problem, or Health Condition	Procedure
ICD-9 724.* (<i>Other and unspecified disorders of back</i>) ICD-10 M54.5* (<i>Low back pain</i>)	AND (within 1 year) "xray" or "xr" (free text field)

Antibiotics for upper respiratory tract infections (based on definition constructed by Wu et al. [1]).

Billing, Diagnosis, Problem, or Health Condition	Medication
ICD-9 460.* or 464.*; ICD-10 J00.* (<i>Acute nasopharyngitis [common cold]</i>) ICD-9 487.*; ICD-10 J11.* (<i>Influenza</i>) ICD-9 487.*; ICD-10 J11.* (<i>Influenza</i>) ICD-9 473.*; ICD-10 J32.* (<i>Chronic sinusitis</i>)	AND (within 1 year) Amoxicillin-clavulanate Cefadroxil Cephalexin Amoxicillin Ampicillin Cloxacillin Penicillin V Pivmecillinam Cefaclor Cefdinir Cefixime Cefpodoxime Cefprozil Ceftibuten Cefuroxime Gemifloxacin Ciprofloxacin Norfloxacin Ofloxacin Levofloxacin Moxifloxacin Azithromycin Clarithromycin Erythromycin Spiramycin Telithromycin Sulfamethoxazole Sulfamethoxazole-Trimethoprim Sulfisoxazole Trimethoprim Tetracyclines Lincosomides Nitrofurantoin Metronidazole Vancomycin Clindamycin Nitrofurantoin Metronidazole Vancomycin Rifabutin Rifampin Fidaxomicin Fosfomicin Linezolid Methenamine Tedizolid

Chest X-rays and ECGs

Procedure

"chest" (free text field)

AND (within 1 year)

Procedure

"xray" or "xr" (free text field)
 "ecg" or "electrocardiogram"
 (free text field)

Screening blood tests

Labs

At least 4 of the following screening blood tests on the same date:

Fasting Glucose*Inclusion terms*

'glucose' AND 'fasting'

Exclusion terms

'gest' (gestational)

HbA1c*Inclusion terms*

'a1c'

Cholesterol*Inclusion terms*

'cholesterol' OR 'hdl' OR 'ldl'

Creatinine*Inclusion terms*

'creatinine'

Exclusion terms

'u' (urine) OR 'poc' (point of care)

Complete blood count (CBC)*Inclusion terms*

'cbc'

Vitamin B12*Inclusion terms*

'b12'

Thyroid stimulating hormone*Inclusion terms*

'tsh'

References

1. Wu JH-C, Langford B, Ha R, Garber G, Daneman N, Johnstone J, et al. Defining appropriate antibiotic prescribing in primary care: A modified Delphi panel approach. <https://doi.org/10.3138/jammi2019-0023> [Internet]. 2020 Feb 17 [cited 2021 Sep 5];5(2):62–9. Available from: <https://jammi.utpjournals.press/doi/abs/10.3138/jammi.2019-0023>.

