1 ACUTE KIDNEY INJURY

2 AGGRESSION

3 AGRANULOCYTOSIS
4 AMNESIA

5 ANAEMIA
6 ANAPHYLACTIC REACTION

7 ANGINA PECTORIS

8 ANGIOEDEMA
9 ARRHYTHMIA

10 BACTERIAL INFECTION
11 BLINDNESS

12 BONE MARROW FAILURE

13 BRADYCARDIA
14 BRONCHITIS

15 CANDIDA INFECTION
19 CELLULITIS

20 CEREBRAL HAEMORRHAGE

21 CEREBROVASCULAR ACCIDENT
22 CHOLESTASIS

23 CONFUSIONAL STATE
29 DIABETES MELLITUS

30 DIPLOPIA

31 DISORIENTATION
32 DRUG REACTION WITH EOSINOPHILIA AND SYSTEMIC SYMPTOMS

33 DYSGEUSIA

34 ELECTROCARDIOGRAM QT PROLONGED
37 ERYTHEMA MULTIFORME

38 EXTRAPYRAMIDAL DISORDER

39 FALL
40 FEBRILE NEUTROPENIA

41 FRACTURE
42 FUNGAL INFECTION

43 GASTROINTESTINAL HAEMORRHAGE

44 GLAUCOMA
47 HAEMORRHAGE

48 HALLUCINATION

49 HEPATIC FAILURE
50 HEPATITIS

51 HEPATOTOXICITY

52 HOSTILITY
53 HYPERCHOLESTEROLAEMIA

54 HYPERGLYCAEMIA
Supplemental Materials

58 HYPOGLYCAEMIA

59 IMPAIRED HEALING
Supplemental Materials

63 JAUNDICE

64 LARYNGEAL OEDEMA
65 LEUKOPENIA

66 MEMORY IMPAIRMENT

67 MYOCARDIAL INFARCTION
68 MYOSITIS

69 NEUROLEPTIC MALIGNANT SYNDROME
70 NEUROPATHY PERIPHERAL

71 NEUTROPENIA

72 OEDEMA
73 PANCREATITIS

74 PANCYTOPENIA
75 PARALYSIS

76 PARANOIA

77 PHOTOREACTIVITY

REATION
78 PNEUMONIA

79 PROTEINURIA
80 PULMONARY EMBOLISM

81 PULMONARY OEDEMA

82 RECTAL HAEMORRHAGE
83 RENAL FAILURE

84 RENAL IMPAIRMENT
85 RESPIRATORY FAILURE

86 RHABDOMYOLYSIS

87 SEIZURE
88 SEPSIS

89 SEROTONIN SYNDROME
90 SLEEP DISORDER

91 STEVENS-JOHNSON SYNDROME

92 STOMATITIS
93 SUDDEN DEATH

94 SUICIDAL BEHAVIOUR
95 SUPRAVENTRICULAR TACHYCARDIA

96 TACHYCARDIA

97 THROMBOCYTOPENIA
100 TOXIC EPIDERMAL NECROLYSIS

101 UPPER RESPIRATORY TRACT INFECTION

102 URINARY TRACT INFECTION
103 URTICARIA

104 VAGINAL HAEMORRHAGE
108 VISUAL IMPAIRMENT

109 WEIGHT INCREASED
110 Overall

![Bar graphs showing Sensitivity, Specificity, Positive Predictive Value, and Negative Predictive Value.](image-url)
**Supplemental Table 1.** The targets represented by 54 test drugs used in the study

| Targets represented by 54 test drugs used in the study |
|-------------------------------------------------------|
| 3-hydroxy-3-methylglutaryl-coenzyme a reductase        |
| 4-aminobutyrate aminotransferase, mitochondrial       |
| 5-hydroxytryptamine receptor 1a                       |
| 5-hydroxytryptamine receptor 1b                       |
| 5-hydroxytryptamine receptor 2a                       |
| 5-hydroxytryptamine receptor 3a                       |
| alpha-1a adrenergic receptor                          |
| alpha-1b adrenergic receptor                          |
| alpha-1d adrenergic receptor                          |
| alpha-2a adrenergic receptor                          |
| alpha-2c adrenergic receptor                          |
| androgen receptor                                     |
| angiopoietin-1 receptor                               |
| beta-1 adrenergic receptor                            |
| beta-3 adrenergic receptor                            |
| b-lymphocyte antigen cd20                             |
| breakpoint cluster region protein                     |
| coagulation factor x                                  |
| d(1a) dopamine receptor                               |
| d(2) dopamine receptor                                |
| de dipeptidyl peptidase 4                             |
| discoidin domain-containing receptor 2                |
| endothelin b receptor                                 |
| endothelium-1 receptor                                |
| ephrin type-a receptor                                |
| estrogen receptor alpha                               |
| fibroblast growth factor receptor 1                   |
| fibroblast growth factor receptor 2                   |
| fibroblast growth factor receptor 3                   |
| fibroblast growth factor receptor 4                   |
| glucagon-like peptide 1 receptor                     |
| Glucocerebroside                                     |
| glutamate receptor                                    |
| guanylate cyclase soluble subunit alpha               |
| hepatocyte growth factor receptor                     |
| high affinity nerve growth factor receptor            |
| histamine h1 receptor                                 |
| integrase                                             |
| interleukin-1 beta                                    |
| kappa-type opioid receptor                            |
| lim domain kinase 1                                   |
| mast/stem cell growth factor receptor kit             |
| mitogen-activated protein kinase 11                   |
| muscarinic acetylcholine receptor m1                  |
| muscarinic acetylcholine receptor m2                  |
| muscarinic acetylcholine receptor m3                  |
| muscarinic acetylcholine receptor m4                  |
| mtmt11                                                |
| nuclear receptor subfamily 1 group i member 2         |
| p2y purinoceptor 12                                   |
| platelet-derived growth factor receptor alpha         |
| platelet-derived growth factor receptor beta          |
| potassium channel subfamily k member 2                |
| potassium voltage-gated channel subfamily h member 2 |
| proteasome subunit beta type-1                        |
| proteasome subunit beta type-10                       |
| proteasome subunit beta type-2                        |
| proteasome subunit beta type-3                        |
| proteasome subunit beta type-4                        |
| protein cereblon                                      |
| prothrombin                                           |
| proto-oncogene tyrosine-protein kinase ret            |
| proto-oncogene tyrosine-protein kinase src            |
| raf proto-oncogene serine/threonine-protein kinase    |
| receptor tyrosine-protein kinase erbb-2               |
| receptor-type tyrosine-protein kinase fli3            |
| reverse transcriptase/maseh                           |
| serine/threonine-protein kinase mtor                  |
| serine/threonine-protein kinase rekk1                 |
| serine/threonine-protein kinase sik1                  |
| sh2b adapter protein 3                                |
| sodium channel protein type 1 subunit alpha           |
| sodium-dependent noradrenaline transporter           |
| sodium-dependent serotonin transporter                |
| solute carrier family 6 member 2                     |
| somatostatin receptor type 1                          |
| somatostatin receptor type 2                          |
| somatostatin receptor type 3                          |
| somatostatin receptor type 5                          |
| synaptic vesicular amine transporter                 |
| thrombopoietin receptor                               |
| thymidylate synthase                                  |
| t-lymphocyte activation antigen cd86                  |
| tubulin alpha-4a chain                                |
| tubulin beta-1 chain                                  |
| tumor necrosis factor                                 |
| type-1 angiotensin ii receptor                        |
| tyrosine-protein kinase ab1                           |
| tyrosine-protein kinase frk                           |
| tyrosine-protein kinase itk/tsk                       |
| tyrosine-protein kinase jak1                          |
| tyrosine-protein kinase jak2                          |
| tyrosine-protein kinase jak3                          |
| tyrosine-protein kinase lck                           |
| tyrosine-protein kinase lyn                           |
| uric acid                                             |
| vascular endothelial growth factor receptor 1         |
| vascular endothelial growth factor receptor 2         |
| voltage-dependent l-type calcium channel subunit alpha-1c |
| voltage-dependent l-type calcium channel subunit alpha-1d |
| voltage-dependent l-type calcium channel subunit alpha-1f |
| voltage-dependent l-type calcium channel subunit beta-1 |
| voltage-dependent l-type calcium channel subunit beta-2 |
| voltage-dependent l-type calcium channel subunit beta-3 |
| xanthine dehydrogenase/oxidase                        |