

## Some commoner drugs requiring therapeutic drug monitoring (TDM)

See BNF for further details

Drug	Timing of blood sample (important!)	Target range (note units)	Toxicity issues	Example of use
<b>Digoxin</b>	At least <b>6 hours post dose</b> (to allow for equilibration to cardiac tissue)	<b>0.8 - 2.0 ng/ml</b>	Dependent on <b>potassium</b> Arrhythmias	Atrial fibrillation
<b>Lithium</b>	At least <b>12 hours post dose</b> (once distribution has stabilized)	<b>0.5 - 1.0 mmol/l</b>	More likely if dehydrated Renal failure	Depression
<b>Theophylline</b>	Trough = <b>prior to next dose</b>	<b>10 - 20 mg/l</b>	Arrhythmias	Asthma
<b>Phenytoin</b>	Trough = <b>prior to next dose</b>	<b>10 - 20 mg/l</b>	Neurotoxicity	Anticonvulsant
<b>Carbamazepine</b>	Trough = <b>prior to next dose</b>	<b>4 - 12 mg/l</b>	Neurotoxicity Arrhythmias	Anticonvulsant