

## **INTERFERENCES**

Many tests are subject to interference. This may be biological, where the offending substance alters the true concentration within the body, or analytical, where the method is not specific. Samples are checked for haemolysis, lipaemia and icterus. Interference due to these is included in the final report.

Lists of substances that interfere with each method are available in the Clinical Chemistry Laboratory. Cases of suspected interference should be discussed with the laboratory.

Some important Drug Interferences are listed in the Table below:

**THIS IS NOT A COMPLETE LIST. CONTACT CLINICAL CHEMISTRY FOR FURTHER INFORMATION**

<b>Test</b>	<b>Interfering Substance(s)</b>	<b>Details</b>	<b>Source</b>
Ammonia	<b>Sulfasalazine/Sulfapyridine</b>	No result produced	CCFSN_04-15 10/06/2015
AST	<b>Sulfasalazine/Sulfapyridine</b>	Interference Results ↓	CCFSN_04-15 10/06/2015
ALT	<b>Sulfasalazine/Sulfapyridine</b>	Interference Results ↓	CCFSN_04-15 10/06/2015
Cyclosporin	<b>Itraconazole</b>	Patients on <b>Itraconazole</b> treatment must be discussed with the laboratory to arrange measurement of Cyclosporin or Tacrolimus at another site (analytical interference with Tallaght)	Method information sheet
Creatinine (Enzymatic)	<b>N-Acetyl Cysteine (&gt;333mg/L)</b>	Interference Results ↓	Roche Safety Notice CCFSN-03-15 May 2015
	<b>Rifampicin Levodopa Dexium</b>	Interference Results ↓	HPRA <b>SN2015(09)</b> <b>Issue Date: 21 May 2015</b>
Digoxin	Certain drugs including <b>hydrocortisone</b> therapy, <b>uzara</b> and <b>triamterin</b> may cause falsely elevated digoxin levels. Also <b>spironolactone</b> and similar	Interference Results ↓	Method information sheet

	drugs at high doses.		
Estradiol  <i>*New 2016</i>	<b>Fulvestrant</b>	Due to risk of cross reactivity, this assay should not be used when monitoring estradiol levels in patients being treated with fulvestrant.	Method information sheet
Iron/TIBC/%Saturation	<b>Oxytetracycline, Iron-Supplements, Deferoxamine Ferritin (&gt;1200ug/L)</b>	Oxytetracycline causes artificially low TIBC. Iron Supplements may result in falsely high TIBC. Deferoxamine binds iron and interferes. If Ferritin (>1200ug/L) – do not use TIBC or %sat results.	Method information sheet
Lactate	<b>N-Acetyl Cysteine (&gt;1497mg/L)</b>	Interference Results ↓	Roche Safety Notice CCFSN-03-15 May 2015  HPRA <b>SN2015(09)</b> <b>Issue Date: 21 May 2015</b>
Lipids (Chol, Trig, HDL, LDL)	<b>N-Acetyl Cysteine</b>	Interference Results ↓	Roche Safety Notice CCFSN-03-15 May 2015  HPRA <b>SN2015(09)</b> <b>Issue Date: 21 May 2015</b>
Tacrolimus	<b>Itraconazole</b>	Patients on <b>Itraconazole</b> treatment must be discussed with the laboratory to arrange measurement of Ciclosporin or Tacrolimus at another site(analytical interference with Tallaght	Method information sheet
Testosterone	<b>Nandrolone</b>	Strong interaction with Nandrolone. Do not use samples from patients on Nandrolone treatment.	Method information sheet

Uric Acid	<b>N-Acetyl Cysteine</b>	Interference Results ↓	Roche Safety Notice CCFSN-03-15 May 2015  HPRA <b>SN2015(09)</b> <b>Issue Date: 21 May 2015</b>
Urine Toxicology Screen	<b>Various</b>	This is an immunological based screening test and is subject to interferences. A full list of interfering substances is available on request.	Method information sheet
Immunoassays -Cobas 8000	<b>Biotin &gt; 5mg/day</b>	Samples should not be taken until at least 8 hours following biotin administration.	Method information sheet
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