

A critical result is defined as a result which could be life threatening. Critical results are phoned to the requesting doctor/requestor as soon as they become available.

- If the requestor cannot be contacted, an attempt is made to contact other doctors at the same practice to notify them of the result.
- For hospital based requests, the relevant registrar is phoned.
- If Awanui Labs' staff are unable to make contact a Awanui Labs pathologist is alerted.
- Actions taken depend on the patient's history.
- If clinically indicated the pathologist contacts the patient.
- If unable to contact the patient, the ambulance service or police will be contacted.
- All actions taken by staff are recorded in patient record tracking notes.

HAEMATOLOGY CRITICAL RESULTS

	LOW	HIGH	
TEST	PANIC IN	PANIC IN	ACTION
	ULTRA	ULTRA	
Haamaalahin	<70	>200	Note: large drop in Hb must be phoned. – close to normal previous to below 80
Haemoglobin	<60**	-	**Microcytic anaemia
Neutrophils	<0.5	>20	
Platelets	<30	>1500	
Pancytopenia	If unex	plained	Check specimen for clots and follow above protocol
INR	>5.0	-	Phoned by call centre
Fibrinogen	≤1.0	-	Phoned by Haem coag staff and refer to Haematologist
Blood Film			 Malaria parasite New acute leukaemia Acute haemolysis inc MAHA, RBC fragmentation Intracellular bacteria

Reference Panic limits based on NorthQAG guidelines

30/07/24 Page **1** of **6**

CK



PHONE >4999 if not

previously known up to 11pm first time only. After 11pm, leave for

the next day to phone. EMAIL if result 1999 – 4999, (first time

only).

BIOCHEMISTRY CRITICAL RESULTS

DEFINITIONS					
PHONE DAY COLUMNS	Applies Monday to Friday 9am – 4pm. Outside these hours record on Morning Phone Log and phone the next day.				
PHONE 24/7 COLUMNS	Applies Monday to Sunday ALL HOURS				
KNOWN CHRONIC KIDNEY DISEASE	Indicators include (but are not limited to) referrer from renal, nephrology or dialysis service. Clinical details on form suggest renal disease. Previously high creatinine results.				
NOTE	Check TestSafe for any recent elevation with any critical test.				
PHONING					

Before phoning always check Patient Tracking for possible instructions. If phoning and emailing a critical result,

always report the added tests. If phoning is left for the next day phone BEFORE 10am.

CRITICAL RESULTS and CONDITIONS (0715 – 10pm) When to phone **TEST** 24/7 Day **CONDITIONS ACTIONS** LOW HIGH LOW HIGH 1.75 3.2 PHONE REFER to Change of >0.3 **Adjusted CALCIUM** Paths weekday ∆0.3 within last 30 davs Patient is PHONE - first time 45 pregnant only **ALT/AST** First time only 1000 Paracetamol 1000 PHONE overdose CARBAMAZEPINE 75 **PHONE** ADD CRE and K at 4999

30/07/24 Page 2 of 6

1999

4999



CRITICAL RESULTS and CONDITIONS						
TEST	When to phone 24/7 Day LOW HIGH LOW HIGH		CONDITIONS	ACTIONS		
	LOW	поп	LOW	поп		Check and correct registration (if DEX)
CORTISOL			50		Path approval First time phone if test done early morning. Do not phone if on steroids.	REFER to paths during the day if not sure for COR to be upgraded. Phoning is not required for requests from Oncology clinic or patients on hydrocortisone, dexamethasone, prednisone (Testsafe
		>200			< 17 years old	Phone (comes to validation not J list)
		>350			Not for CKD	Phone unless CKD
CREATININE (DO NOT Phone if KNOWN CHRONIC KIDNEY Disease)		Δ50% within a week			Level <200 and after 9pm EMAIL Not for CKD patients on dialysis (CAPD or HD)	PHONE all delta check failures in validation. Exception when: • Level <200 AND after 9pm - Email immediately AND PHONE next morning Email only if creatinine in normal range and GFR ≥60. Phone if GFR <60 • Phone creatinine
		>100			Patient is pregnant or <10 years old	PHONE
CRP		>200			If >200 (first time) or an "increase of 100 and >200"	PHONE but after 11pm email and leave for the next day.
		Δ100 and <200			Within the last 7 days	EMAIL

30/07/24 Page **3** of **6**



CRITICAL RESULTS and CONDITIONS							
TEST	When to phone 24/7 Day			CONDITIONS	ACTIONS		
	LOW	HIGH	LOW	HIGH			
DIGOXIN		2.5			2.5 – 3.0 (K, MG and Ca results taken in to consideration)	ADD K, MG and CA unless specimen taken within 8 hrs of dose. PHONE Dig 2.5 – 3.0, if K or Ca or Mg are abnormal	
		>3.0				PHONE	
FT4			<5	>50	TSH is taken into account before being actioned.	Email only: FT4 <5 and TSH >50 or FT4 >50 and TSH <0.01 If no email number, no action required. DO NOT EMAIL if there is an Attention Validator message.	
	<u><</u> 2.5					If UNS refer to BIO- CON-F009 . Check date on specimen	
						PHONE if spun within 3 hours	
GLUCOSE		≥15			If glucose >15 and age < 17yrs and not previously diagnosed as a diabetic	Phone if not known diabetic	
		≥25			HCO3 taken into consideration	Add HCO, Crea, K PHONE if HCO3 is less than <15 Email if HCO3 is greater than >15	
		>35				Add HCO, Crea and K PHONE the glucose without waiting for other results.	
НСО₃	15	40			PHON	E first time only.	
НВА1С		>120			and follow diabetic request,	is first time, then add on glucose of the glucose criteria. If known patient, or commercial email is sufficient, do not add If no email, no action required.	

30/07/24 Page **4** of **6**



CRITICAL RESULTS and CONDITIONS							
TEST	When to phone 24/7 Day LOW HIGH LOW HIGH		ay	CONDITIONS	ACTIONS		
IRON		70			Age <17 or >17 years	PHONE <17 years EMAIL>17 years	
LIPASE		>250			>250 first time (in 7	PHONE	
LITHIUM		1.99		1.5	eGFR	ADD CRE at 1.5 unless specimen taken within 8 hrs of dose. PHONE ≥ 1.5 24/7 if eGFR is < 65 PHONE ≥ 1.99 regardless of eGFR result	
MAGNESIUM	0.3					ADD K and CA PHONE (first time only)	
PHENYTOIN				100		PHONE	
PHOSPHATE			0.3			PHONE	
POTASSIUM	<2.5	≥6.5			CKD≥ 6.5 Pre dialysis ≥7.0 (requestor: Diaverum Toto Ora Dialysis Clinic)	Note-Criteria of >7.0 applies to pre-dialysis clinic only, NOT home dialysis, peritoneal dialysis, haemodialysis where >6.5 applies	
		Δ0.3				PHONE if previous K <2.5 or >6.5 and has deteriorated by more than 0.3.	
PROTEIN/CREATININE RATIO		30			Gestation >13 weeks	Check form PHONE if >13 weeks gestation or if not stated	
	125	155				PHONE	
SODIUM		Δ3.0				PHONE if previous sodium <125 or >155 has deteriorated by more than 3	

30/07/24 Page **5** of **6**



CRITICAL RESULTS and CONDITIONS								
		When to	phone					
TEST	24/7		Day		CONDITIONS	ACTIONS		
	LOW	HIGH	LOW	HIGH				
		>150			1 day old			
TOTAL		>200			2 day old	PHONE		
BILIRUBIN		>250			3 day old			
		>300			≥4 day old			
Direct Bilirubin (NBI)				>25	Age <1 year old and	PHONE Note: if after 530 pm, DBIL can		
(112.)					TBIL >60	be phoned the following day.		
Troponin T		≥15				PHONE first time raised. PHONE when clinical details suggest acute situation, for example, chest pain and shortness of breath. PHONE when the requestor wants us to phone the result regardless as per the registration form. If history of cardiomyopathy, that is being monitored, do not phone. If in doubt always, contact the pathologist. NOTE: Check Testsafe for recent elevation.		
TRIGLYCERIDE				50		First time phone only. Second time, email and if no email, no action required.		
UREA				40	Not CKD	DO NOT PHONE IF CHRONIC KIDNEY DISEASE PATIENT		
VALPROATE				800		EMAIL		
				999		PHONE		

30/07/24 Page **6** of **6**