

SECTION F ANAEMIA

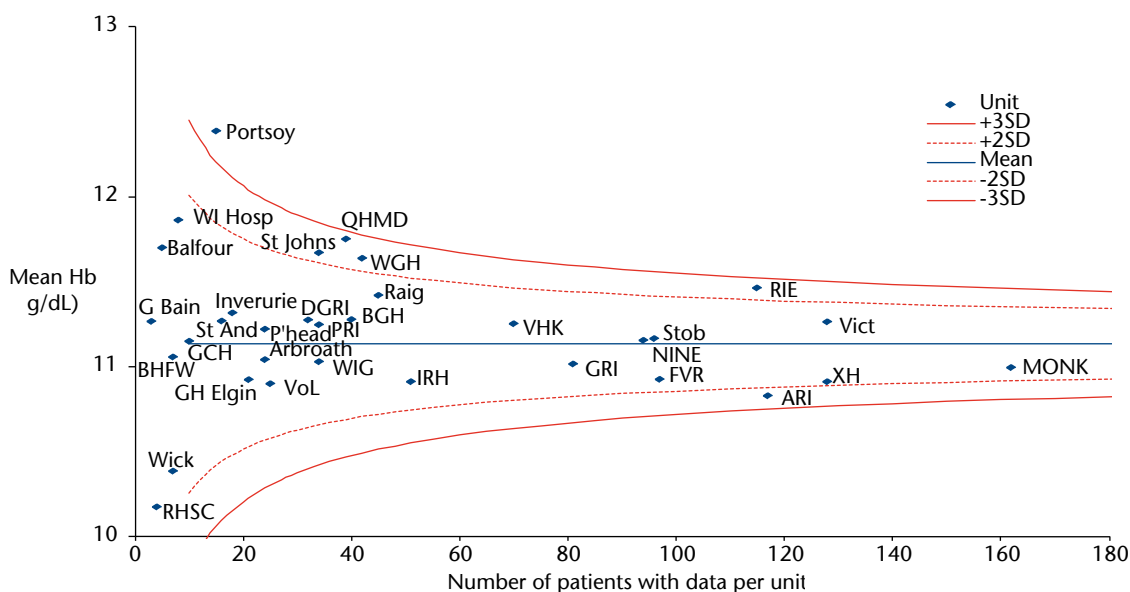
The anaemia audit was performed in May 2012; all patients in Scotland receiving hospital or home haemodialysis on 02 May 2012 were included in the audit. We excluded results where patients had a recent blood transfusion. There were 1832 results from 1873 patients (98%).

Haemoglobin concentration (Hb) was measured in a predialysis blood sample after the first short interdialytic gap of the audit week, or as soon as possible thereafter. Auditing after the short (2 day) gap is done in order to minimise the potential effect of dilution due to fluid overload.

The target for achieved haemoglobin in individual patients remains unclear. NHS Quality Improvement Scotland (NHS QIS) suggests a unit specific target of Hb ≥ 10 g/dL in $\geq 85\%$ of patients after 3 months of RRT. The UK Renal Association updated their guidelines in 2010 and in version 5, there is now a recommended target Hb of 10-12g/dL, but only for those CKD patients receiving ESA therapy.

In light of the changing guidelines and uncertainty over target Hb we have revised the levels in our audit to look at % patients in each unit with Hb ≥ 10 g/dl, Hb 10-12g/dl and Hb >12 g/dl.

F1 Mean Hb of HD patients in each dialysis unit May 2012



Patients with Hb >12.0 g/dL and confirmed as not receiving ESA therapy (90 patients) are excluded from the funnel plot analysis. Portsoy is the only outlier, not falling within 3 SD of the population mean, with a mean Hb 12.4g/dL.

F2 Number of HD patients, median Hb and achievement of audit standards by renal unit May 2012											
	ARI	XH	DGRI	GLAS	MONK	NINE	RAIG	RHSC*	RIE	VHK	Scotland
Number of patients	219	150	50	590	181	181	84	5	266	147	1873
Missing data or recently transfused	7	4	1	9	3	2	3	1	8	3	41
% patients with Hb data	97	97	98	98	98	99	96	80	97	98	96
% total patients with Hb \geq 10g/dL	76	79	94	80	78	90	81	60	85	82	81
% total patients with Hb 10.0-12.0 g/dL	50	54	69	50	54	64	49	50	50	42	52
% total patients with Hb > 12.0g/dL	28	26	26	31	25	27	33	20	36	40	31
Upper quartile	12.1	12.0	12.1	12.2	12.0	12.1	12.1	11.3	12.4	12.4	12.2
Median Hb g/dL	11.2	10.9	11.4	11.3	11.2	11.3	11.5	10.6	11.7	11.7	11.3
Lower quartile	10.1	10.2	10.9	10.2	10.3	10.6	10.4	9.5	10.7	10.6	10.4
Range g/dL	6.8 - 14.6	7.6 - 14.7	8.7 - 13.9	6.2 - 15.3	7.3 - 14.9	7.3 - 18	7.1 - 15	7.6 - 12	6.7 - 14.8	5.4 - 15.7	5.4 - 18

* The standards set for adults are not applicable to children.

Three units, DGRI, NINE and RIE, achieved the NHS QIS standard of 85% of patients with Hb \geq 10g/dL.

The denominator includes those patients for whom data was not available.

81% of patients in Scotland had Hb \geq 10g/dL and 52% achieved a Hb 10.0-12.0g/dL. 312 (17%) patients had a Hb >12.5g/dL of whom 62 were confirmed as not receiving ESA therapy.