

## SECTION G ANAEMIA

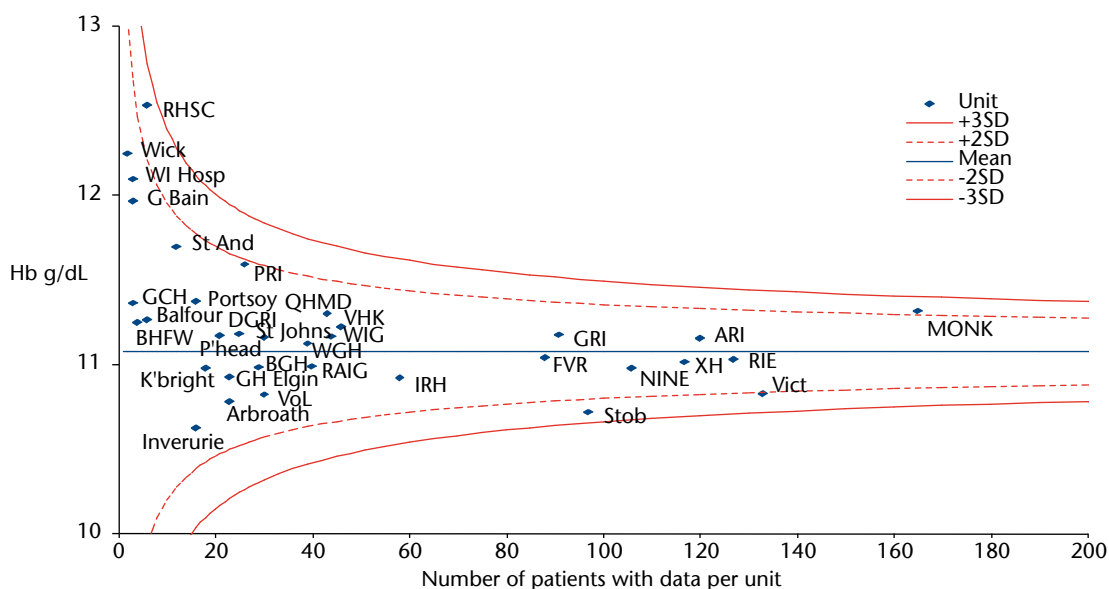
The anaemia audit was performed in May 2013; all patients in Scotland receiving hospital or home haemodialysis on 01 May 2013 were included in the audit. Results were excluded for patients who had received a recent blood transfusion. There were 1803 results from 1885 patients (95.6%)

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  $\geq 10$  g/dL in  $\geq 85\%$  of patients after 3 months of RRT. The UK Renal Association guideline from 2010 recommends target Hb of 10-12g/dL, but only for those patients receiving ESA therapy.

We have reported the mean achieved haemoglobin value by satellite unit and also the percentage of patients, by parent unit, achieving both the NHS QIS and UKRA standards.

### G1 Mean Hb of HD patients in each dialysis unit May 2013



Patients with Hb  $>12.0$  g/dL and confirmed as not receiving ESA therapy (116 patients) are excluded from the funnel plot. All units, including the paediatric unit, lie within 3 standard deviations of the mean (11.2 g/dL) for the whole HD population.

## G2 Number of HD patients, median Hb and achievement of audit standards by renal unit May 2013

	ARI	XH	DGRI	GLAS	MONK	NINE	RAIG	RHSC*	RIE	VHK	Scotland
Number of patients	231	142	51	613	189	176	64	6	270	143	1885
Missing data or transfused	9	7	2	19	9	8	5	0	16	7	82
% patients with Hb data	96	95	96	97	95	95	92	100	94	95	96
% patients Hb $\geq 10$ g/dL**	82	84	80	78	86	86	86	100	81	85	82
% patients with Hb 10.0-12.0 g/dL***	54	60	56	55	55	62	51	33	58	54	56
% patients with Hb $>12.0$ g/dL***	26	27	23	23	30	23	35	67	24	31	26
Upper quartile***	12.1	12.1	12.0	12.0	12.3	12.0	12.3	13.1	11.9	12.2	12.1
Median Hb g/dL***	11.2	11.4	11.3	11.1	11.4	11.0	11.3	12.8	11.3	11.4	11.2
Lower quartile***	10.3	10.5	10.2	10.1	10.5	10.2	10.2	11.9	10.3	10.4	10.3
Range g/dL***	7 - 14.7	6 - 14.1	9.2 - 15.1	6.5 - 15.3	7.6 - 14.5	7.1 - 13.7	6.5 - 16.1	7.3 - 13.4	10.6 - 14.2	6.4 - 17.4	6.5 - 15.3

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

\*\* NHS QIS Standard  $\geq 10.0$  g/dL. 57 patients had no data and 25 had received a recent blood transfusion (n=1803).

\*\*\* UKRA standard. Hb 10.0-12.0 on ESA therapy. Patients were excluded if there were no data, they had recently received a blood transfusion or were not receiving ESA therapy on the census date (n=1454).

Of the 1803 patients with Hb values, 1478 (82.0%) had Hb  $\geq 10.0$  g/dL. Four adult units, MONK, NINE, RAIG and VHK, achieved the NHS QIS standard of 85% of patients with Hb  $\geq 10$  g/dL.

Data on ESA treatment (including patients confirmed as not receiving ESA) were available for 1748 (92.7%) patients.

Using this information we were able to calculate the proportion of patients achieving the UKRA standard (Hb 10.0-12.0 g/dL) receiving ESA therapy on the census date. Of the 1454 patients with data, not recently transfused and who were receiving treatment with ESA, 812 (55.8%) achieved the UKRA standard. Hb was  $<10.0$  g/dL in 267 (18.4%) of patients, Hb was  $>12.0$  g/dL in 375 (25.8%) and 216 (14.9%) had Hb  $>12.5$  g/dL.