

## Section F ANAEMIA

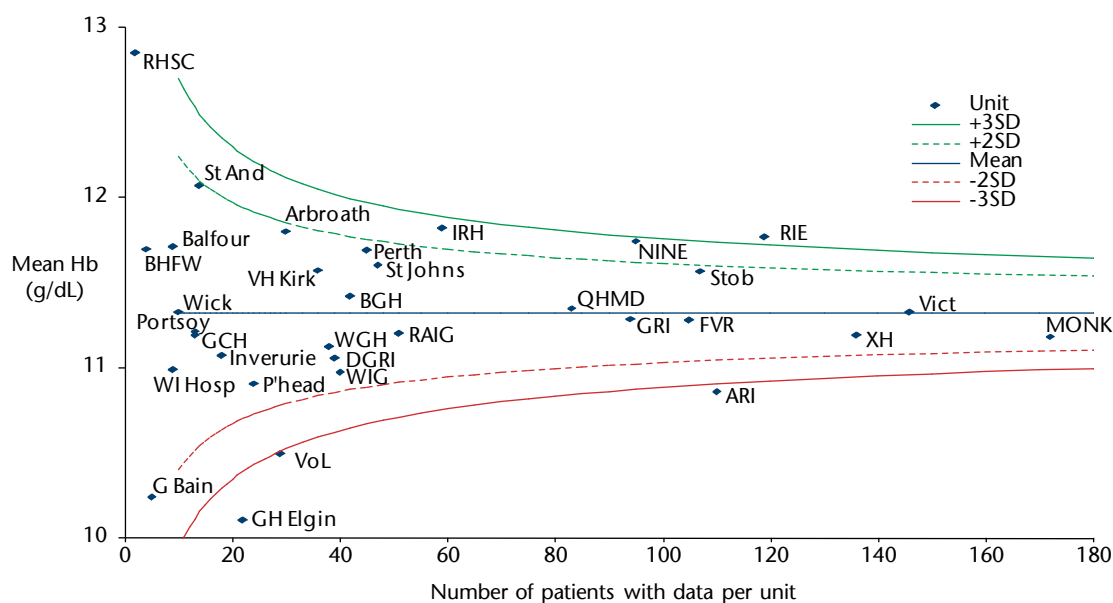
The anaemia audit was performed in May 2011; all patients in Scotland receiving hospital or home haemodialysis (HD) on 02 May 2011 were included. Data were available for 1822 of the 1877 prevalent HD patients (97.1%).

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

The target for achieved haemoglobin in individual patients remains unclear. Healthcare Improvement Scotland, formally known as NHS Quality Improvement Scotland, specify a target of Hb  $\geq 10$  g/dL in  $\geq 85\%$  of patients after 3 months of RRT. The UK Renal Association guideline (version 5) updated in 2010, recommends target Hb of 10-12g/dL 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 with Hb  $\geq 10$ g/dL, Hb 10-12g/dL and Hb  $>12$ g/dL.

### F1 Mean Hb of HD patients in each dialysis unit May 2011



Mean Hb is reported according to unit (parent or satellite) providing HD in the May 2011 census week. Most of the adult units, and the paediatric unit, lie within 2 standard deviations of the mean (11.3 g/dL) for the whole HD population.

There are 4 outliers who are not within 3 SD of the population mean, GH Elgin with a mean Hb 10.1 g/dL, VoL with a mean Hb 10.5 g/dL, ARI with a mean Hb 10.9 g/dL and RIE with mean Hb 11.8 g/dL.

**F2 Number of HD patients, median Hb and achievement of audit standards by renal unit May 2011**

	ARI	XH	DGRI	GLAS	MONK	NINE	QMHD	RAIG	RHSC*	RIE	Scotland
Number of patients	212	148	52	624	175	178	139	81	2	266	1877
Number of patients with missing data	6	4	0	22	2	6	6	6	0	3	55
% patients with Hb data	97.2	97.3	100.0	96.5	98.9	96.6	95.7	92.6	100.0	98.9	97.1
% total patients with Hb ≥10 g/dL	73.6	74.3	88.5	78.7	82.9	88.2	84.2	81.5	100.0	83.1	80.5
% total patients with Hb 10-12 g/dL	57.8	42.4	69.2	45.5	56.6	41.9	49.6	65.3	50.0	39.2	48.2
% total patients with Hb >12 g/dL	17.5	33.1	19.2	34.8	26.9	47.8	36.7	21.0	50.0	44.4	33.7
Upper quartile	11.7	12.3	11.5	12.4	12.1	12.6	12.4	11.9	13.7	12.7	12.3
Median Hb g/dL	11.0	11.4	11.1	10.3	11.2	11.9	11.6	11.3	12.9	11.7	11.4
Lower quartile	10.0	10.0	10.5	10.3	10.4	10.8	10.8	10.5	12.0	10.7	10.4
Range g/dL	7.0 - 15.3	6.4 - 14.7	8.8 - 14.3	6.5 - 15.4	7.0 - 15.6	5.1 - 15.4	7.6 - 14.0	8.3 - 14.0	11.2 - 14.5	7.1 - 15.4	5.1 - 15.6

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

Two of the adult units achieved the NHS QIS standard of 85% of patients with Hb ≥10 g/dL. The denominator includes those patients for whom data was not available.

80.5% of patients in Scotland had Hb ≥10g/dL and 48.2% achieved Hb 10.0-12.0 g/dL and 33.7% had Hb >12.0g/dL.