

UKHCDO: Maintenance Dose table for Emicizumab (Hemlibra®) for Haemophilia A in patients without an inhibitor

Last updated: August 2019

The following **maintenance** dose table is **advisory**. Some of the recommended doses represent a divergence from the [licensed dose schedule](#). Dose-rounding has been applied at a margin of -/+ 10% of the calculated dose, which is felt to reflect better prescribing in practice.

The following presentations of Hemlibra® (Roche) are available:

Vial Quantity (mg)	30	60	105	150
Vial Volume (ml)	1.00	0.40	0.70	1.00
Vial Concentration (mg/ml)	30	150	150	150

- The maximum permitted volume per single injection is 2.0ml. Doses which require a greater volume must be administered in separate injections each with a maximum volume of 2.0ml and must be injected at different sites.
- It is important to note that there is very limited data on the PK and PD in the very young and close monitoring is important.

Loading dose -

The loading dose is 3.0 mg/Kg weekly for 4 weeks (week 1-4) - see www.medicines.org.uk

Maintenance dosing

The following maintenance dose table has been devised with multiple aims:

- Risk minimisation through a preferential selection of less complex regimens
- Increased patient convenience by minimising the number of injections for each dose
- Two weekly regimens are the default recommendation for maintenance doses as these currently provide the best balance between patient safety, convenience and waste-minimisation but once-weekly regimens may be appropriate in the older group if they do not incur any additional wastage
- If only a partial quantity is required from any vial then this should be withdrawn from the vial with the smallest overall quantity with any remaining product being discarded
- It is good practice to avoid drawing up vials of different concentration into one syringe- 2 injections are required
- The dosing table will be updated periodically to reflect emerging evidence to support other regimens which offer additional or comparable patient convenience, safety and waste-minimisation and when there is more clinical experience or evidence emerges for doses >150mg weekly (or equivalent)

Additional Factor VIII:

- Patients will require a small supply of factor VIII to administer should a bleed occur
- A small quantity of a recombinant factor VIII with a low acquisition cost should be supplied to the patient

Table 1: **Maintenance** Dose Table for Emicizumab for Haemophilia A in patients without an inhibitor

	Patient Weight (Kg)	Calculated Maintenance Regimen (mg/Kg)		Recommended Maintenance Regimen		Waste per dose (mg)
		1.5mg ONCE weekly	3.0mg once every TWO weeks	Dose (mg)	Frequency (days)	
Children 12 to 22 Kg: Calculate dose for every TWO weeks & prescribe a 60mg vial	12	18.0	36	36	14	24
	13	19.5	39	39	14	21
	14	21.0	42	42	14	18
	15	22.5	45	45	14	15
	16	24.0	48	48	14	12
	17	25.5	51	51	14	9
	18	27.0	54	54	14	6
	19	28.5	57	60	14	0
	20	30.0	60	60	14	0
	21	31.5	63	60	14	0
22	33	66	60	14	0	
Children 23 to 33 Kg: Calculate dose for every TWO weeks & prescribe a 30mg + 60mg vial	23	34.5	69	69	14	21
	24	36.0	72	72	14	18
	25	37.5	75	75	14	15
	26	39.0	78	78	14	12
	27	40.5	81	81	14	9
	28	42.0	84	90	14	0
	29	43.5	87	90	14	0
	30	45.0	90	90	14	0
	31	46.5	93	90	14	0
	32	48.0	96	90	14	0
	33	49.5	99	90	14	0
Patients 34 to 38 Kg: Calculate dose for every TWO weeks & prescribe a 105mg dose (whole vial)	34	51.0	102	105	14	0
	35	52.5	105	105	14	0
	36	54.0	108	105	14	0
	37	55.5	111	105	14	0
	38	57.0	114	105	14	0
Patients 39 to 44 Kg: Calculate dose for every TWO weeks & prescribe a 120mg dose (two whole 60mg vials)	39	58.5	117	120	14	0
	40	60.0	120	120	14	0
	41	61.5	123	120	14	0
	42	63.0	126	120	14	0
	43	64.5	129	120	14	0
	44	66.0	132	120	14	0

	Patient Weight (Kg)	Calculated Maintenance Regimen (mg/Kg)		Recommended Maintenance Regimen		Waste per dose (mg)
		1.5mg ONCE weekly	3.0mg Once every TWO weeks	Dose (mg)	Frequency (days)	
Patients 45 to 47 Kg: Calculate dose for every TWO weeks & prescribe a 30mg + 105mg vial	45	67.5	135	135	14	0
	46	69.0	138	135	14	0
	47	70.5	141	135	14	0
Patients 48 to 55 Kg: Calculate dose for every TWO weeks & prescribe a 150mg vial	48	72.0	144	150	14	0
	49	73.5	147	150	14	0
	50	75.0	150	150	14	0
	51	76.5	153	150	14	0
	52	78.0	156	150	14	0
	53	79.5	159	150	14	0
	54	81.0	162	150	14	0
Patients 56 to 59 kg: Calculate dose for every TWO weeks & prescribe a 60mg + 105mg vial	55	82.5	165	150	14	0
	56	84.0	168	165	14	0
	57	85.5	171	165	14	0
	58	87.0	174	165	14	0
Patients 60 to 66 Kg: Calculate dose for every TWO weeks & prescribe a 180mg dose (three whole 60mg vials)	59	88.5	177	165	14	0
	60	90.0	180	180	14	0
	61	91.5	183	180	14	0
	62	93.0	186	180	14	0
	63	94.5	189	180	14	0
	64	96.0	192	180	14	0
	65	97.5	195	180	14	0
Patients 67 to 77 Kg: Calculate dose for every TWO weeks & prescribe a 210mg dose (two whole 105mg vials)	66	99.0	198	180	14	0
	67	100.5	201	210	14	0
	68	102.0	204	210	14	0
	69	103.5	207	210	14	0
	70	105.0	210	210	14	0
	71	106.5	213	210	14	0
	72	108.0	216	210	14	0
	73	109.5	219	210	14	0
	74	111.0	222	210	14	0
	75	112.5	225	210	14	0
	76	114.0	228	210	14	0
77	115.5	231	210	14	0	

	Patient Weight (Kg)	Calculated Maintenance Regimen (mg/Kg)		Recommended Maintenance Regimen		Waste per dose (mg)
		1.5mg ONCE weekly	3.0mg Once every TWO weeks	Dose (mg)	Frequency (days)	
Patients 78 to 88 Kg: Calculate dose for every TWO weeks & prescribe a 240mg dose (four whole 60mg vials)	78	117.0	234	240	14	0
	79	118.5	237	240	14	0
	80	120.0	240	240	14	0
	81	121.5	243	240	14	0
	82	123.0	246	240	14	0
	83	124.5	249	240	14	0
	84	126.0	252	240	14	0
	85	127.5	255	240	14	0
	86	129.0	258	240	14	0
	87	130.5	261	240	14	0
	88	132.0	264	240	14	0
Patients 89 to 98 Kg: Calculate dose for every TWO weeks & prescribe a 270mg dose (two whole 105mg vials and one whole 60mg vial)	89	133.5	267	270	14	0
	90	135.0	270	270	14	0
	91	136.5	273	270	14	0
	92	138.0	276	270	14	0
	93	139.5	279	270	14	0
	94	141.0	282	270	14	0
	95	142.5	285	270	14	0
	96	144.0	288	270	14	0
	97	145.5	291	270	14	0
	98	147.0	294	270	14	0
Patients 99 Kg or more: Calculate dose for every TWO weeks & prescribe a 300mg dose (two whole 150mg vials)	99+	150.0	300	300	14	0

Table 2: Regimen details

Total (mg) Prescribed Regimen	Prescribed Regimen (vials (mg))	30mg Vials	60mg Vials	105mg Vials	150mg Vials	Total Vials	Total dose volume (ml)	Number of Injections
30	30	1	0	0	0	1	1.0	1
60	60	0	1	0	0	1	0.4	1
90	30 + 60	1	1	0	0	2	1.4	2
105	105	0	0	1	0	1	0.7	1
120	2 x 60	0	2	0	0	2	0.8	1
135	30 + 105	1	0	1	0	2	1.7	2
150	150	0	0	0	1	1	1.0	1
165	60 + 105	0	1	1	0	2	1.1	1
180	3 x 60	0	3	0	0	3	1.2	1
210	2 x 105	0	0	2	0	2	1.4	1
240	4 x 60	0	4	0	0	4	1.6	1
270	60 + (2 x 105)	0	1	2	0	3	1.8	1
300	2 x 150	0	0	0	2	2	2.0	1

Red cells indicate regimen with vials of different concentrations which may require separate injections.

END.