

Table S1: Individual replicates and median concentrations of afabacin desphosphono in cortical bone, cancellous bone, bone marrow and soft tissue collected at time of resection.

Subject	Compartment	Aliquot	Concentration (ng/g)		Median concentration (ng/g)
			Replicate 1	Replicate 2	
01	Cortical bone	1a	201	239	224
		1b	314	346	
		2	178	208	
01	Cancellous bone	1a	478	577	497
		1b	468	545	
		2	515	295	
01	Bone marrow	1a	401	472	363
		1b	345	365	
		2	361	307	
01	Soft tissue	1a	445	364	473
		1b	540	500	
		2	505	420	
02	Cortical bone	1a	472	471	472
		1b	478	491	
		2	419	471	
02	Cancellous bone	1a	822	848	739
		1b	497	446	
		2	740	737	
02	Bone marrow	1a	527	563	515
		1b	502	483	
		2	566	500	
02	Soft tissue	1a	625	674	617
		1b	699	571	
		2	573	609	
03	Cortical bone	1a	504	422	458
		1b	518	493	
		2	270	178	
03	Cancellous bone	1a	477	596	590
		1b	349	692	
		2	713	583	
03	Bone marrow	1a	745	637	609
		1b	594	623	
		2	588	347	
03	Soft tissue	1a	498	436	467
		1b	639	673	
		2	398	353	
04	Cortical bone	1	730	635	683
04	Cancellous bone	1	1060	1240	1020
		2	984	892	
04	Bone marrow	1	612	825	825
		2	932	- ^a	
04	Soft tissue	1	477	436	457
05	Cortical bone	1	590	571	581
05	Cancellous bone	1	953	1080	1020

Subject	Compartment	Aliquot	Concentration (ng/g)		Median concentration (ng/g)
			Replicate 1	Replicate 2	
05	Bone marrow	1	875	853	864
05	Soft tissue	1	640	670	655
06	Cortical bone	1	176	183	180
06	Cancellous bone	1a	601	264	599
		1b	623	597	
06	Bone marrow	1	236	299	268
06	Soft tissue	1	296	370	333
07	Cortical bone	1	191	196	283
		2	370	378	
07	Cancellous bone	1	434	435	435
07	Bone marrow	1	319	309	314
07	Soft tissue	1	455	416	436
08	Cortical bone	NA			NA
08	Cancellous bone	NA			NA
08	Bone marrow	NA			NA
08	Soft tissue	NA			NA
09	Cortical bone	1	333	413	373
09	Cancellous bone	1a	368	3530	505
		1b	442	567	
09	Bone marrow	1	485	484	485
09	Soft tissue	1	357	376	367
10	Cortical bone	1	348	327	338
		2	NA	NA	
10	Cancellous bone	1a	1620	743	913
		1b	964	862	
10	Bone marrow	1	778	751	765
10	Soft tissue	1	724	814	769
11	Cortical bone	1	197	193	195
		2	198	190	
11	Cancellous bone	1	462	444	453
11	Bone marrow	1	500	497	499
11	Soft tissue	1	410	540	475
		1b	_{-a}	_{-a}	
12	Cortical bone	1	533	543	538
12	Cancellous bone	1	867	899	883
12	Bone marrow	1	845	858	852
12	Soft tissue	1	913	930	922
13	Cortical bone	NA			NA
13	Cancellous bone	NA			NA

Subject	Compartment	Aliquot	Concentration (ng/g)		Median concentration (ng/g)
			Replicate 1	Replicate 2	
13	Bone marrow	1	1180	- ^a	1180
13	Soft tissue	1	1060	1040	1050
14	Cortical bone	1	152	143	148
14	Cancellous bone	1	516	466	468
		2	430	469	
14	Bone marrow	1	359	383	363
		2	367	344	
14	Soft tissue	1	343	278	303
		2	274	328	

NA: no sample available; 1a and 1b: same aliquot (1) analysed in separate batches; ^aNo sufficient tissue for two replicates for reassay.

Following analysis of replicates for the two aliquots of the first patients, the differences between some of the replicates was higher than 25% in some cases. Consequently, aliquot 1 was analysed in duplicates for all patients in one run; if the difference between the duplicates ($100 \cdot [\text{Replicate 1} - \text{Replicate 2} / \text{mean}]$) was higher than 25%, a reanalysis was conducted in duplicates. In addition, if the mean of the two replicates was higher than 50% of the median value of all tissues, reanalysis of the aliquot 1 and analysis of aliquot 2 were performed in duplicates. These repeat analyses were done to increase the accuracy of tissue concentration data.

The median of all the replicates is reported as recommended by the Global Bioanalysis Consortium Harmonization Team [1].

Reference

1 Fluhler E, Vazvaei F, Singhal P, Vinck P, Li W, Bhatt J, de Boer T, Chaudhary A, Tangiuchi M, Rezende V, Zhong D. 2014. Repeat Analysis and Incurred Sample Reanalysis: Recommendation for Best Practices and Harmonization from the Global Bioanalysis Consortium Harmonization Team. AAPS J. 16(6):1167-1174.