

**Supplementary Information for:**

**A time-course analysis of changes in cerebral metal levels following a controlled cortical impact**

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**Table 1:** Iron concentration data ( $\mu\text{g g}^{-1}$ ). IPS = ipsilateral (injury) side; Contra = contralateral (control) side.

<i>Time point</i>	<i>ROI1</i>		<i>ROI2</i>		<i>ROI3</i>		<i>Entire hemisphere</i>	
	IPS	Contra	IPS	Contra	IPS	Contra	IPS	Contra
<i>24 hours</i>	7.547	6.651	5.975	5.625	5.901	5.767	6.055	5.527
	4.802	4.636	4.968	4.641	5.072	4.489	4.956	4.564
	13.998	10.768	9.311	9.618	4.202	4.510	9.893	9.603
	4.453	4.768	4.385	4.367	4.547	4.485	4.461	4.476
	9.221	5.016	3.968	4.804	-	-	5.853	4.664
<i>72 hours</i>	18.560	7.250	20.206	4.962	6.741	5.971	12.957	5.919
	24.265	5.416	6.091	5.021	4.947	4.88	9.871	4.874
	26.155	4.896	4.546	3.950	4.072	3.506	10.024	3.872
	11.530	6.235	7.843	6.121	6.742	6.662	7.968	6.370
<i>7 days</i>	9.474	5.010	10.836	4.098	6.458	5.745	8.640	6.547
	12.385	4.989	7.585	4.72	6.485	5.207	8.153	6.276
	10.673	5.938	8.519	4.756	6.853	5.312	8.190	7.051
	20.719	7.309	18.581	5.523	9.578	5.602	15.874	10.148
<i>14 days</i>	8.465	4.960	4.916	4.353	4.572	4.497	5.629	4.480
	44.263	6.394	11.311	5.485	7.530	5.372	14.45	5.427
	12.224	5.498	9.046	4.952	8.562	5.654	9.841	5.398
	8.866	5.045	8.261	5.718	7.948	6.845	8.271	6.080
	5.794	6.055	3.866	5.301	4.446	4.057	4.607	4.698
<i>28 days</i>	45.612	6.903	27.152	5.507	7.320	5.600	21.596	5.837
	12.801	6.887	12.878	4.981	7.958	5.115	11.772	5.176
	7.752	8.110	6.055	6.475	6.838	6.954	6.758	6.919
	36.617	13.281	9.737	8.507	7.298	7.685	13.326	8.329

**Table 2:** Copper concentration data ( $\mu\text{g g}^{-1}$ ). IPS = ipsilateral (injury) side; Contra = contralateral (control) side.

<i>Time point</i>	<i>ROI1</i>		<i>ROI2</i>		<i>ROI3</i>		<i>Entire hemisphere</i>	
	IPS	Contra	IPS	Contra	IPS	Contra	IPS	Contra
<i>24 hours</i>	1.497	1.692	1.639	1.709	1.423	1.325	1.716	1.721
	0.831	1.128	1.058	1.176	1.748	1.718	1.104	1.141
	1.328	1.621	1.593	1.575	2.120	2.247	1.458	1.539
	1.679	2.447	1.801	2.040	-	-	1.923	2.165
	0.888	1.831	1.074	1.840	-	-	1.184	1.843
<i>72 hours</i>	1.344	1.929	1.441	1.843	1.885	1.819	1.647	1.870
	1.111	1.359	1.295	1.39	1.501	1.875	1.372	1.407
	0.885	1.811	1.491	1.746	2.004	1.936	1.489	1.701
	1.396	1.690	1.464	1.554	2.518	2.765	1.488	1.668
<i>7 days</i>	1.194	1.284	1.26	1.18	1.584	1.629	1.180	1.204
	1.612	1.543	1.684	1.758	1.939	1.901	1.626	1.573
	1.437	1.846	1.620	1.751	1.826	1.870	1.575	1.742
	1.168	1.619	1.245	1.424	1.643	1.892	1.354	1.444
	-	-	-	-	3.368	2.85	-	-
<i>14 days</i>	1.292	1.127	1.303	1.185	1.785	1.871	1.287	1.246
	1.718	1.428	1.902	1.467	3.343	3.057	1.758	1.613
	1.871	1.768	1.775	1.746	2.479	2.056	1.870	1.773
	1.886	2.044	1.961	2.186	2.381	1.968	3.533	2.288
	-	2.605	-	2.588	-	3.197	2.131	2.45
<i>28 days</i>	2.229	1.961	2.553	1.946	2.173	2.072	2.434	2.039
	2.678	1.776	1.729	1.547	1.667	1.501	1.897	1.457
	2.488	2.625	2.073	2.103	1.895	1.918	2.180	2.182
	3.443	2.913	3.162	2.568	2.382	2.253	3.047	2.666
	-	-	-	-	1.974	2.445	-	-

**Table 3:** Zinc concentration data ( $\mu\text{g g}^{-1}$ ). IPS = ipsilateral (injury) side; Contra = contralateral (control) side.

<i>Time point</i>	<i>ROI1</i>		<i>ROI2</i>		<i>ROI3</i>		<i>Entire hemisphere</i>	
	IPS	Contra	IPS	Contra	IPS	Contra	IPS	Contra
<i>24 hours</i>	4.820	3.681	4.671	3.561	3.838	3.454	4.155	3.220
	3.981	3.886	3.960	3.870	3.131	2.868	3.614	3.468
	7.013	7.100	6.949	6.226	5.942	5.646	6.417	5.946
	4.038	4.033	4.181	4.138	3.559	3.897	3.867	3.991
	2.369	3.881	2.767	4.019	3.125	3.671	2.755	3.763
<i>72 hours</i>	5.014	3.994	4.212	3.892	3.773	3.52	4.182	3.781
	5.736	3.531	3.650	3.754	3.362	3.262	3.996	3.360
	3.229	4.249	3.412	3.934	3.661	3.691	3.431	3.832
	4.960	4.422	4.805	4.245	4.594	4.252	4.759	4.257
<i>7 days</i>	4.406	4.116	4.193	3.492	3.618	3.158	3.97	3.362
	5.661	3.759	5.266	4.116	4.268	3.917	1.904	3.914
	4.932	4.249	4.155	4.119	3.641	3.263	4.094	3.741
	5.485	3.810	4.908	3.628	3.950	3.712	4.510	3.654
<i>14 days</i>	4.630	3.835	3.631	3.408	2.779	3.154	3.346	3.297
	5.651	4.680	4.020	3.626	3.835	3.861	4.240	3.774
	5.706	4.325	4.409	4.162	3.717	3.572	4.439	3.945
	5.106	6.590	5.256	4.785	5.494	5.009	5.246	5.126
	5.297	6.616	4.283	5.283	4.808	4.186	4.713	4.854
<i>28 days</i>	6.596	4.207	5.437	1.946	4.561	3.714	4.988	3.841
	5.245	4.180	4.206	1.547	3.760	3.825	3.989	3.801
	5.722	6.267	4.991	2.103	4.648	4.977	4.888	5.369
	8.304	8.719	6.196	2.568	5.429	6.351	6.410	6.682