**SUPPLEMENTARY MATERIAL**

**Efficacy of a topical gabapentin gel in a cisplatin paradigm of chemotherapy-induced peripheral neuropathy**

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**Running head:** Topical gabapentin for chemotherapy-induced neuropathy

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**Table S1:** Effect of *per se* treated topical gabapentin 10% gel (GBP-10%), topical control gel (CG) and systemic gabapentin at 75 mg/kg (GBP-75, i.p.) during the expression of cisplatin-induced static allodynia [diminished von Frey filament threshold pressure (paw withdrawal threshold; PWT in g)] in hind paws after weekly intraperitoneal injection of cisplatin at 3.0 mg/kg (Cis-3) for four consecutive weeks in rats

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| --- | --- | --- | --- |
| **Days/Groups** | **GBP-10%** | **GBP-75** | **CG** |
| **Day 0** | 13.93 ± 0.36 | 14.68 ± 0.16 | 14.55 ± 0.24 |
| **Day 7** | 14.26 ± 0.26 | 14.33 ± 0.23 | 14.58 ± 0.29 |
| **Day 14** | 14.21 ± 0.28 | 14.61 ± 0.22 | 14.21 ± 0.31 |
| **Day 21** | 14.65 ± 0.26 | 14.36 ± 0.41 | 14.53 ± 0.31 |
| **Day 28** | 14.36 ± 0.31 | 14.26 ± 0.25 | 14.21 ± 0.31 |

Each symbol represents the mean PWT in g ± SEM, *n* = 6 rats per group.

**Table S2:** Effect of *per se* treated topical gabapentin 10% gel (GBP-10%), topical control gel (CG) and systemic gabapentin at 75 mg/kg (GBP-75, i.p.) during the expression of cisplatin-induced heat hypoalgesia [increased nociceptive response latency to heat stimulus in the hot-plate paradigm (paw withdrawal latency; PWL in s)] in bilateral hind paws after weekly intraperitoneal injection of cisplatin at 3.0 mg/kg (Cis-3) for four consecutive weeks in rats

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| --- | --- | --- | --- |
| **Days/Groups** | **GBP-10%** | **GBP-75** | **CG** |
| **Day 0** | 16.50 ± 0.76 | 16.66 ± 0.49 | 16.50 ± 0.67 |
| **Day 7** | 15.83 ± 0.91 | 19.66 ± 0.84 | 16.83 ± 0.61 |
| **Day 14** | 16.16 ± 0.47 | 19.66 ± 1.21 | 16.66 ± 0.76 |
| **Day 21** | 17.00 ± 0.85 | 20.83 ± 1.01 | 16.33 ± 0.76 |
| **Day 28** | 17.50 ± 0.42 | 20.66 ± 1.08 | 17.66 ± 0.84 |

Each symbol represents the mean PWL in s ± SEM, *n* = 6 rats per group.

**Table S3:** Effect of *per se* treated topical gabapentin 10% gel (GBP-10%), topical control gel (CG) and systemic gabapentin at 75 mg/kg (GBP-75, i.p.) on rotarod performance during neuropathic nociception induced after weekly intraperitoneal injection of cisplatin (Cis) at 3.0 mg/kg (Cis-3) for four consecutive weeks in rats

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| --- | --- | --- | --- |
| **Days/Groups** | **GBP-10%** | **GBP-75** | **CG** |
| **Day 0** | 198.000 ± 5.961 | 202.166 ± 3.876 | 199.000 ± 4.802 |
| **Day 7** | 200.833 ± 6.257 | 106.500 ± 13.55 | 197.500 ± 4.978 |
| **Day 14** | 198.833 ± 4.657 | 109.500 ± 8.345 | 194.500 ± 6.443 |
| **Day 21** | 203.833 ± 6.031 | 104.166 ± 13.22 | 199.500 ± 6.576 |
| **Day 28** | 199.333 ± 5.959 | 106.666 ± 11.91 | 197.166 ± 4.061 |

Each symbol represents the mean endurance latency in s ± SEM, *n* = 6 rats per group.

**Table S4:** Effect of *per se* treated topical gabapentin 10% gel (GBP-10%), topical control gel (CG) and systemic gabapentin at 75 mg/kg (GBP-75, i.p.) on footprint pattern analysis during neuropathic nociception induced after weekly intraperitoneal injection of cisplatin (Cis) at 3.0 mg/kg (Cis-3) for four consecutive weeks in rats. The measured parameter was expressed as the overlap distance between the forepaw and hind paw placements, 1 h post treatment.

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| --- | --- | --- | --- |
| **Days/Groups** | **GBP-10%** | **GBP-75** | **CG** |
| **Day 0** | 0.959 ± 0.022 | 0.961 ± 0.027 | 0.968 ± 0.029 |
| **Day 7** | 0.953 ± 0.028 | 1.413 ± 0.075 | 0.973 ± 0.029 |
| **Day 14** | 0.972 ± 0.028 | 1.394 ± 0.067 | 0.951 ± 0.027 |
| **Day 21** | 0.961 ± 0.031 | 1.417 ± 0.071 | 0.972 ± 0.021 |
| **Day 28** | 0.961 ± 0.024 | 1.425 ± 0.049 | 0.975 ± 0.029 |

Each symbol represents the mean paw overlap in cm ± SEM, *n* = 6 rats per group.