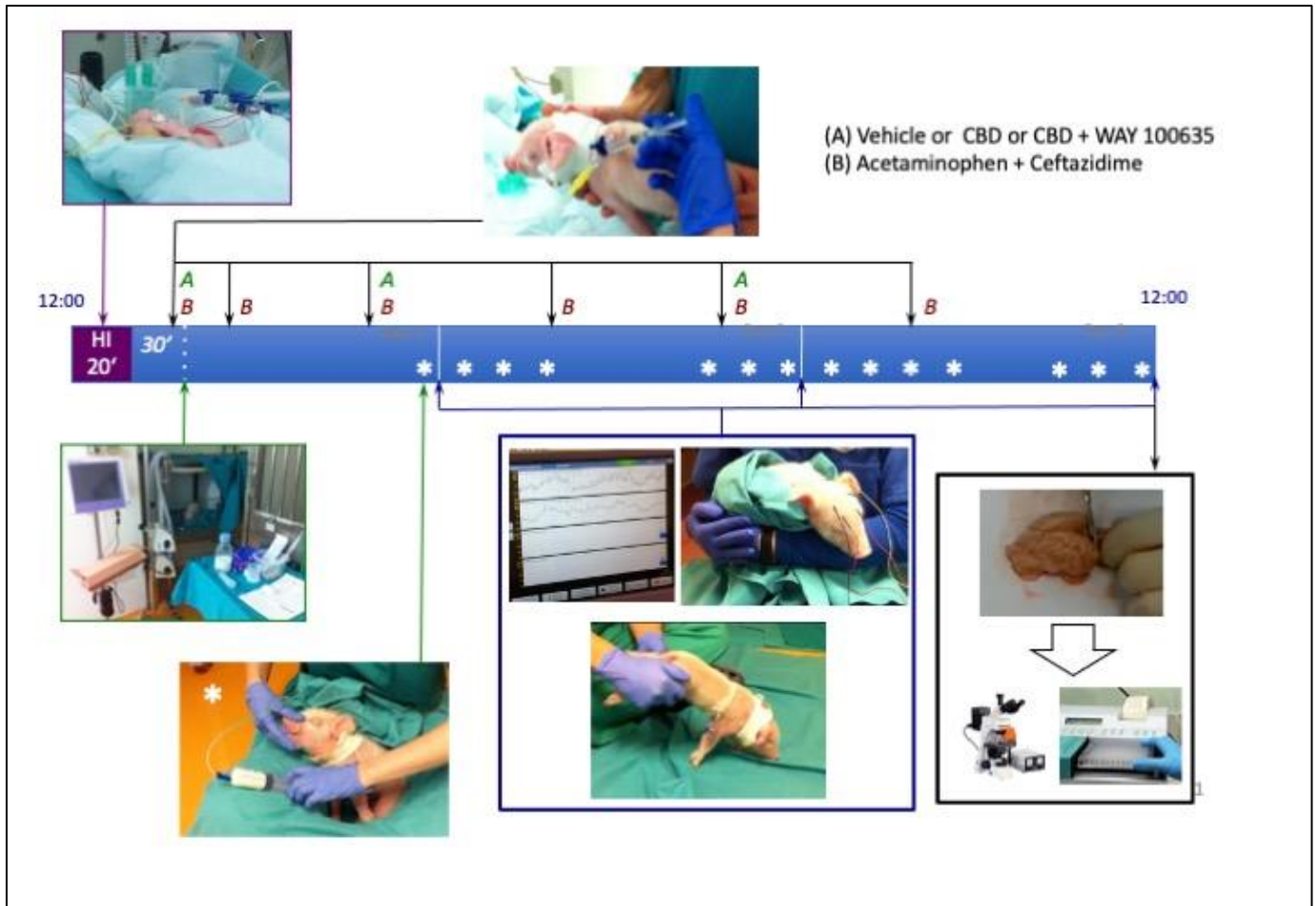


1 SUPPLEMENTARY MATERIAL

2 METHODS



3 **Fig.1S. Scheme of the experimental protocol.** After the 20 min-long hypoxic-ischemic (HI) insult,
 4 piglets were allowed to recover. Thirty min after the end of HI piglets received i.v. (A) vehicle,
 5 cannabidiol 1 mg/kg (CBD) or CBD and WAY 100635 1 mg/kg; drug administration was repeated 24
 6 and 48 h after the HI episode. In addition, piglets received (B) ceftazidime 15 mg/kg i.v. every 12 h to
 7 prevent infections and acetaminophen 15 mg/kg i.v. every 8 h for pain control. After the HI insult
 8 piglets were housed in stainless steel cages and periodically fed with artificial pig formula (asterisk).
 9 Each morning from 8 to 10 am a neurobehavioral test was carried out in the room where its cage was
 10 placed. After the neurobehavioral assessment, piglets were wrapped up with a blanket and held by an
 11 examiner sat in front of the aEEG device, to assess cerebral activity over 10 min. Seventy-two hours
 12 after the HI insult piglets were sacrificed by KCl infusion. Then the brains were harvested and sectioned.
 13 Brain slices from the left hemisphere were placed into 4% paraformaldehyde for histologic analysis
 14 whereas those from the right hemisphere were snap frozen in isopentane and stored at -80°C for
 15 spectroscopy studies.