

**Supplementary Material 1: data collection tool.**

<b>Collaborating Center ID</b>						
<b>Name, location</b>						
<b>Date, time</b>						
<b>1) Patient's characteristics</b>						
<b>Gender</b>						
<b>Age (in years; months if &lt; 1-year-old)</b>						
<b>Nationality</b>						
<b>Pregnancy (Y/N)</b>			If YES: Gestation week _____			
Anamnestic risk factors: cardiovascular; neurological; metabolic; other (specify)*						
<b>2) CO intoxication modality</b>						
Source of Intoxication (one among these items)						
Solid fuel (charcoal; wood; pellets; other)						
Liquid/gas fuel (gasoline; diesel; kerosene; methane; propane; other)						
Fire						
Other						
Exposure modality (one among these items)						
Accidental (Home; Work-related exposure; other); Intentional						
Length of exposure: Minutes ____ OR Unknown						
Single exposure OR Repeated exposure						
<b>3) Emergency Medical Service and Emergency Department</b>						
ED Presentation Modality: Self-referral; EMS; referral by a healthcare provider*						
Oxygen before HBOT*						
Oxygen with mask: during EMS retrieval; at the ED; during ED to chamber transfer.*						
Intubation (and where)*						
Level of consciousness at presentation (to EMS or at ED)						
One among: Alert; Depressed level of consciousness; intubated						
GCS (Total and split in Eye-Verbal-Motor)*						
Symptoms at presentation (one or more) (to EMS or at ED)*						
Neurological (e.g., transitory ischemic attack, seizures)						
Cardiovascular (e.g., chest pain, peripheral ischemia)						
Other (specify)						
Triage Registration Time						
First Arterial Blood Gas Analysis (complete)						
Time*	pH*	BE*	Lactic acid*	Hb*	Met-Hb*	CO-Hb
<b>4) Hyperbaric Facility</b>						
Location of the referring site and distance (km)						
Time of Transfer = [arrival at chamber time – departure from referring site time]						
Time To Chamber (TTC) = [arrival at chamber time – first contact with the patient] *						
HBOT protocol						
Arterial Blood Gas Analysis before the first HBOT (complete)						

Time*	pH*	BE*	Lactic acid	Hb*	Met-Hb*	CO-Hb
<b>5) Outcomes</b>						
Arterial Blood Gas Analysis after the first HBOT (complete)						
Time*	pH*	BE*	Lactic acid	Hb*	Met-Hb*	CO-Hb
Deceased during HBOT (Y/N)						
Deceased after the first session of HBOT (Y/N)						
Conditions after the first session of HBOT *						
GCS (Total and split in Eye-Verbal-Motor)*						
Symptoms: asymptomatic; improved; unchanged.*						
Total number of HBOT performed_____						
Troponin values (timing and type of troponin dosed)*						
Acute complications						
Cardiac; Vascular; Neurologic; Pulmonary; Other (specify).						
Chronic complications: Delayed neurologic sequelae; myocardial injuries (Y/N/unknown)*						

ED: Emergency Department; EMS: Emergency Medical Service; HBOT: hyperbaric oxygen treatment; GCS: Glasgow Coma Scale; BE: base excess; Hb: hemoglobin; Met-Hb: methemoglobin; CO-Hb: carboxyhemoglobin; TTC: Time To Chamber.

\*These items were not present in the tool developed for the retrospective study but were implemented afterward, to provide further information and more comprehensive analysis in future prospective studies.