**Supplementary Table 1. Hospital clinical scenarios.**

|  |  |  |  |
| --- | --- | --- | --- |
| scenario  | SIMULATION TIME | ESTIMATED DEBRIEFNG TIME | CASE SUMMARY |
| STROKE CASE: Patient with severe impairment of the level of consciousness | 20 minutes | 40 minutes | The patient was found in a coma, so they have to make a differential diagnosis and apply the appropriate treatment |
| ASTHMA CASE: Patient with resting dyspnea and low level of consciousness | 20 minutes | 30 minutes | A 25-year-old woman who attends the emergency room brought by the family due to basal dyspnea and decreased level of consciousness. The asthma began when she was walking down the street. |
| UNSTABLE ATRIAL FIBRILATION CASE: Patient with atrial fibrillation with instability | 20 minutes | 30 minutes | 65-year-old woman with ATA who comes for palpitations and "dizziness" lasting 2 h |
| CASE DIGIOTALIC INTOXICATION: Patient with bradycardia due to digitalis intoxication | 20 minutes | 30 minutes | A 77-year-old patient with a history of hypertension and ischemic heart disease in dilated phase, with heart failure. He has had hyporexia and epigastralgia for two months. He goes to the Emergency Department to increase his basal dyspnea until he becomes rested. Anorexia and prostration. |
| ACUTE LUNG EDEMA CASE | 20 minutes | 30 minutes | A 75-year-old woman with moderate aortic insufficiency who comes for resting dyspnea with rapidly progressive orthopnea for 6 hours. |
| ACUTE CORONARY SYNDROME WITH VENTIRUCLAR FIBRILATION | 20 minutes | 40 minutes | A 55-year-old male who arrives at the emergency room with chest pain with progressive irruption lasting 1 hour that does not cease with changes in posture and radiates towards the neck and jaw. In addition, he has had a cough for 24 h. Covid positive? Symptomatic, with fever 38.4°C. |
| BRADYCARDIA. COMPLETE ATRIOVENTRICULAR BLOCK (3RD DEGREE) | 20 minutes | 30 minutes | A 60-year-old male attending the emergency room for repeat syncope during the last 2 hours. At admission the patient presents vagal courtship with sweating and nausea. |
| RESPIRATORY FAILURE (LARYNGEAL CROUP) | 20 minutes | 30 minutes | A 12-months child with shortness of breath, cough, and fever of two days of evolution with episodes of vomiting and general decay.  |
| HYPOVOLEMIC SHOCK IN PEDIATRICS | 20 minutes | 30 minutes | A 2-year-old girl with continued diarrhea and vomiting (5 times in the last hour) goes to the emergency department.  |

**Supplementary Table 2. Out-of-hospital clinical scenarios.**

|  |  |  |  |
| --- | --- | --- | --- |
| Scenarios  | SIMULATION TIME | ESTIMATED DEBRIEFNG TIME | CASE SUMMARY |
| CHEST TRAUMA | 30 minutes | 40 minutes | A 25-year-old male who is released by the fire department with tachypnea, sweating and pallor. We find an out-of-hospital team who can care for the patient. Head-on collision between two cars at 60 km/ and 45 km/h respectively. |
| SEVERE HEAD TRAUMA | 20 minutes | 30 minutes | Male. 43 years old who suffers motorcycle accident at 80 km / h and suffers collision with safety fence on the road, slid for about 20 m, on arrival of the out-of-hospital team the patient is in lateral decubitus and agitated with confusing and inappropriate language. |
| ABDOMINAL TRAUMA AND UNSTABLE PELVIS | 30 minutes | 30 minutes | 30-year-old woman who suffers a 10 m high ceiling fall on her, leaving her trapped. Upon arrival of the out-of-hospital team, firefighters have removed the debris from her; they found her pale, sweaty, with tachypnea and conscious but slightly confused with repetitive language.  |
| PEDIATRIC CARDIAC ARREST DUE TO ACUTE OBSTRUCTION OF THE AIRWAY BY FOREIGN BODY | 20 minutes | 25 minutes | 4-year-old child who has difficulty breathing, ineffective cough upon arrival. Accompanied by the mother. Weight 15 kg. NO ALLERGIES  |
| SEIZURES IN PEDIATRICS | 20 minutes | 30 minutes | A 5-year-old child who presents convulsions, tonic-clonic seizures every 10 min, without recovery with verbal communication between them. |
| DRUG INTOXICATION AS AN AUTOLYTIC ATTEMPT | 30 minutes | 30 minutes | A 55-year-old male, who is at home with snoring seizures and unresponsive. Depression, mental health follow-up.  |