TIME Trial - Case Report Form (CRF)
(In Bold necessary items to fill)

Hospital characteristics

- Teaching or non-teaching setting
- I or II level Emergency Department (ED)
- Volume of abdominal emergency surgery per year (< 30, between 30 and 50, > 50, >100)
- 24 h radiologist or on call radiologist
- 24 h surgical team or on call surgical team
- 24h OR in ED

Patients' background

- **Gender (M/F)**
- **Age (at admission)**
- **BMI**
- **ASA score**
- Past abdominal surgery (yes/not)
- **Comorbidities** (cardiovascular, metabolic, respiratory, neurologic, renal, diabetes, cancer, immunosuppression)
- **Charlson Comorbidity Index (CCI)**
- Corticosteroid therapy (yes/not)

Patient management in ED

- **Admission date and time;**
- Priority code at admission;
- NEDOCS Index
- Time of imaging request (x-Ray and CT-scan)
- Time of imaging report validation (x-Ray and CT-scan)
- Time of patient evaluation by surgeon on call;
- **Preoperative resuscitation procedures (Y/N, type, start time);**
- Total fluid administered prior surgery
- Administration of vasopressor (and/or inotropic) drug prior surgery
- Time of administration of antibiotic therapy
- **Presence of Sepsis** (infection documented or suspected + SOFA >=2) at admission or during patient stay in ED – **SOFA score**,
- **Presence of septic shock** (sepsis + persistent hypotension needing vasopressors to maintain a Mean Arterial Pressure (MAP) of 65 mmHg; serum values of lactates > 18 mg/dL (or 2 mmol/L) with an adequate volume resuscitation measures) at admission or during patient stay in ED;
- **Emergency Surgery Score (ESS);**
- **ACS NSQIP® Surgical Risk score.**

Radiologic findings

- CT-scan findings and timing
- subdiaphragmatic free gas,
- free peritoneal fluid,
- bowel wall discontinuity,
- extraluminal contrast (oral contrast)
- abdominal collections,
- fat stranding,
- extraluminal abscess and fluid
- portal venous gas,
- wall bowel thickening,
- pneumatosis,
- mucosal hyperenhancement

Surgery

- **Time of skin incision**
- **Type of surgery**
  - Resection (yes/not)
  - Anastomosis (yes/not)
  - Only laparoscopic/open abdominal exploration (yes/not)
  - Ostomy (yes/not)
  - Abdominal lavage and drainage (yes/not)
  - Appendectomy (yes/not)
  - Simple suture/repair (yes/not)
- Duration of surgery (min)
- Damage control surgery (yes/not)
- Open abdomen technique (yes/not)
- Surgical approach (laparoscopic, open, converted, causes of conversion)
- **Site** of gastrointestinal perforation:
  - Oesophagus (only abdominal),
  - Stomach (cardia, fundus, body, lesser or greater curvature, antrum),
  - Duodenum (I, II, III or IV portion),
  - Jejunum (specify distance from Treitz ligament),
  - Ileum (specify distance from ileocaecal valve),
  - Appendix,
  - Colon (caecum, right colon, left colon, tranverse, hepatic or splenic flexure, sigmoid) or rectum (only intraperitoneal).
- **Mannheim Peritonitis Index** [15]

  Age > 50, Female sex, organ failure, malignancy, origin of sepsis not colonic, diffuse generalized peritonitis, preoperative duration of peritonitis > 24 h, intraoperative exudates (Clear, cloudy or purulent, fecal)
- Free abdominal fluid
  - Amount: absent, minimum, modest, abundant
  - Quality: clear, enteric, biliary, fecaloid, purulent, ascites, hematic
- **Peritonitis**
  - localized

    - diffuse
- **Cause** of perforation (neoplastic occlusion, adherence occlusion, diverticulitis, appendicitis, ischemia, trauma, peptic ulcer, other – specify-)
- **Intraoperative resuscitation procedures**
    - Total fluid administered
    - Need for vasopressor (and/or inotropic) drug

<u>Postoperative course</u>

- **In-hospital mortality (Y/N)**
- **date of death (for calculating 30d and 90d mortality)**
- **date of hospital discharge**
- **Length of Stay (LoS) in Intensive Care Unit (ICU) (days)**
- **Duration of Mechanical Ventilation (days)**
- Postoperative surgical complications and their treatment
- Postoperative non-surgical complications
- **Clavien-Dindo Score**
- Re-intervention rate (number and type of reinterventions)
- **30-d readmission rate**