

- **Quality of care and patient safety**

- Triage
 - *What is the predictive value of vital signs in triage for different diseases?*
- Quality of care
 - *What is the degree of compliance with the SEUP quality indicators in the different emergency departments (EDs)?*
 - *In children who seek further care within 72 h of discharge and require admission, what are the most frequent diagnoses?*
- Missed opportunities for improving diagnosis (MOID)
 - *In children <5 years of age, what percentage of invasive bacterial infection (IBI) cases are diagnosed during a second ED visit?*
 - *What are the most frequent MOIDs in Spanish EDs?*
- Simulation training
 - *What is the impact of simulation training on real-world clinical practice?*
 - *What are the areas for improvement most frequently detected in critical patient care simulation training?*
- Patient safety
 - *What is the impact of different strategies on treatment-related safety?*
 - *Which drugs most frequently associated with dosing/administration errors in the ED?*

- **Critical patient**

- Shock
 - *In children with hypovolemic shock, is volumen administration with saline as effective and safe as volumen administration with balanced crystalloids?*
 - *In children with shock, is the administration of fluid therapy at 10 ml/kg more effective than 20 ml/kg in reversing the shock situation?*
 - *In children with shock, is early infusión of inotropic drugs more effective than later administration in reversing the shock situation?*

- **Infectious diseases**

- Febrile infant
 - *Does the 22-28-day-old febrile infant have a different prevalence of IBI than infants ≤ 21 days old or infants > 28 days old?*
 - *In febrile infants 3-24 months of age, what is the most appropriate temperatura cut-off point above which to recommend blood tests to detect occult bacteremia?*
 - *In febrile infants 3-24 months of age, are there clinical low risk factors for IBI other than laboratory biomarkers?*
 - *In febrile infants < 90 days of age, do patients with a positive Enterovirus/Parechovirus polymerase chain reaction (PCR) in blood or cerebrospinal fluid have a different prevalence of IBI than infants with a negative result?*
- Sepsis / septic shock

- *In children with fever, is any clinical decision support tool better than others to identify in the ED patients who are going to develop sepsis?*
 - *In children with sepsis, is any clinical or analytical scale superior to others to identify those patients with a worse outcome?*
 - Meningitis, encephalitis
 - *In children with suspected meningitis or encephalitis, does the use of PCR techniques improve management compared to classical diagnostic methods (Gram, culture)?*
 - *In children with suspected acute encephalitis, should acyclovir be administered empirically in all patients?*
 - Urinary tract infection (UTI)
 - *In children > 90 days of age with UTI, are short-course (5-day) oral antibiotics as effective as 10-day therapy in preventing the risk of kidney scarring and re-infection?*
 - *In infants < 90 days of age with urinary tract infection, is oral antibiotic treatment as effective as IV in reducing the risk of kidney scarring?*
 - *In children with urinary tract infection treated with oral antibiotics, what are the predictors of persistence of fever 48 h after the initiation of therapy?*
 - Bone/joint infection
 - *In children with osteoarticular infections, are clinical or laboratory factors associated with a low risk of complications?*
 - Fever in the immunocompromised child
 - *In immunocompromised children with fever, are there any clinical or laboratory factors associated with a low risk of IBI?*
- **Respiratory**
 - Bronchiolitis
 - *In children with bronchiolitis, are there any predictive factors for failure of high-flow oxygen therapy?*
- **Trauma**
 - Head trauma
 - *In infants < 90 days of age with scalp haematoma and Glasgow Coma Scale of 15, which factors are associated with a low risk of traumatic brain injury (TBI)?*
 - *In children with head trauma, are there any biomarkers of TBI?*
- **Psychiatry**
 - Suicide
 - *What are the characteristics of children with an attempted suicide in Spanish emergency departments?*
 - *In children with an attempted suicide by drug ingestion, is it necessary to determine paracetamol blood levels routinely?*
- **Neurological**
 - Stroke
 - *What are the characteristics of children < 16 years of age in whom a stroke code is activated in Spanish EDs?*