Data Summary Document

The following data points will be recorded within the HIPPO Study REDCap Database:

Pre-operative Data Fields	Required data (definition / comment)
1. Patient age	**Years (months if < 1y)**
2. Patient sex	**Male / Female**
3. Height	**(cm)**
4. Weight	**(kg)**
5. Gestational age Branching logic if the patient is a child (<16y)	**(weeks)**
6. Patient ASA grade	**Grade I / Grade II / Grade III / Grade IV / Grade V**
7. Smoking status	**Never smoked / Current smoker or Ex-smoker (<6 weeks ago) / Ex-smoker (>6 weeks ago)**
8. Clinical Frailty scale*	**1 / 2 / 3 / 4 / 5 / 6 / 7 / 8 / 9**
9. Co-morbidities	**Ischemic heart disease / Congestive heart failure / Cerebrovascular disease / Chronic kidney disease / Diabetes Mellitus** (NIDDM / IDDM)
10. Did the patient have a test for SARS-CoV-2 in the 72h before surgery?	**Yes** (PCR / Lateral flow) / **No**
11. Did the patient have any symptoms related to inguinal hernia before surgery?	**Yes** (e.g., pain, heaviness, dull discomfort, dragging sensation) **/ No**
12. Time of first symptoms Branching logic if the patient had symptoms	**mm**
13. Date of diagnosis	**Dd/ mm / yyyy / At birth (neonate 28d) / Infant (up to 1 year)**
14. Date of decision for surgery	**Dd / mm / yyyy**
15. Date of operation	**Dd/ mm / yyyy**
16. Was the patient able to do daily activities while waiting for surgery (work, school, or family duties)?	**Yes (completely) / Some, but not all / No, not at all**
17. Site of hernia	**Left / Right / Bilateral**
18. Size of inguinal hernia *Referring to the biggest one if bilateral*	**Limited to inguinal region / Limited to scrotum / Extend to mid-thigh / Extend to knee or beyond**
19. Indication for surgery	**Symptomatic / Incarcerated / Obstruction / Strangulated**

Intra-operative Data Fields	Required data (definition / comment)
1. Urgency of surgery	**Elective / Emergency** *If emergency: Was the patient already on the elective waiting list for surgery?* (Yes / No)
2. Mode of Anaesthesia *This refers to the main anaesthetic used during the operation and not as induction agents*	**Local / Regional** (spine-related / regional nerve block) **/ Sedation** (e.g., midazolam) **/ General Inhaled** (sevoflurane / halothane / desflurane / N_20 / isoflurane) **/ TIVA**
3. Was the anaesthesia given by the professional who repaired the hernia?	**Yes** (e.g., surgeon) **/ No** (anaesthetist / anaesthetic nurse / technician)
4. Was the WHO checklist used?	**Yes / No**
5. Prophylactic antibiotic	**Yes / No**
6. Primary Operator	**Senior surgeon** (Consultant or Attending) / **Trainee surgeon** / **Non-surgeon** (medical practitioners / non-surgeon / non-medical practitioners) *If selected any:* *- - How many inguinal hernias were performed prior to this? (0-50 / 51-100 / 101-200 / ≥201) -What was the speciality? (general surgeon / urology / paediatric surgeon / other) -What was the speciality? (general surgeon / urology / paediatric surgeon / other)*

7. Operative approach	**Open** (performed exclusively using instruments inserted in to the abdomen through a surgical incision in the groin area). **Laparoscopic** (performed exclusively using instruments inserted in to the abdomen through ports) **Laparoscopic converted to open** (surgery planned to be performed laparoscopically but for unforeseen reasons the decision was made to change to an open approach). **Robotic** (robot-assisted surgery with no conversion to either laparoscopic or open approaches). **Robotic converted to open** (surgery planned to be performed robotically but for unforeseen reasons the decision was made to change to an open approach).
8. Size of inguinal hernia	**Up to 1.5cm / Up to 3cm / >3cm / Not known**
9. Bowel resection	**Yes / No**
10. Type of hernia repair	**Primary herniotomy / Mesh** (Lichenstein / Transinguinal pre-peritoneal (TIPP) / Trans rectal pre-peritoneal (TREPP) / plug and patch / PHS (bilayer) / other) **/ Non-mesh** (Desarda / Bassini / Shouldice, other) **/ MIS** (TAPP / TEP / SILS)
11. **Mesh used**	**Yes / No** *If mesh used:* *- Country of manufacture: (Longlist, unknown)* *- Type: Permanent synthetic / Absorbable synthetic / Biological / Composite* *- Was the excess mesh re-sterilised and re-used? Yes /No* *- Suture used to fix the mesh to inguinal ligament: absorbable / non-absorbable / not fixed - / glue (fibrin / histo-acryl) / tackers*
12. Operative contamination	**Clean** (Gastrointestinal (GI) and genitourinary (GU) tract not entered). **Clean-Contaminated** (GI or GU tracts entered but no gross contamination). **Contaminated** (GI or GU tracts entered with gross spillage or major break in sterile technique). **Dirty** (There is already contamination prior to operation, e.g. faeces or bile).
13. Were reusable gowns used in this procedure?	**Yes** (All scrubbed staff/ some scrubbed staff) **/ No**
14. Were reusable drapes used in this procedure?	**Yes / No**
15. Was recycling of waste performed?	**Yes, paper / Yes plastic / Yes glass / No**

Post-operative Data Fields	**Required data (definition / comment)**
1. 30-day follow-up	**Yes** (Telephone / In-person) **/ No**
2. 30-day surgical site infection	**Yes** (No readmission within 30-days / readmission within 30-days) / **No**
3. 30-day Reoperation	**Yes** (early recurrence, bleeding, injury to the vas deferens, other**) / No**
4. Post-operative length of stay	**Same day discharge** **Admitted** (If admitted, **Number** of days inpatient, considering day after surgery as day 1 to day of discharge. If the patient has not been discharged prior to the end of 30-day follow-up, enter '31').)
5. Overall Clavien-Dindo complication	**None / Grade I / Grade II / Grade IIIa / Grade IIIb / Grade IVa / Grade IVb / Grade V**