

CLINICAL EXCELLENCE

PRECISION AT THE TINIEST SCALE

ROBOTIC PYELOPLASTY IN A BABY JUST 1 MONTH AND 18 DAYS OLD MARKS A SIGNIFICANT MILESTONE IN PEDIATRIC ROBOTIC SURGERY

In pediatric surgery, precision assumes an entirely different meaning. When the patient is barely a few weeks old, the anatomy is exceptionally small, the operative space limited, and every movement demands meticulous control. At **Hindusthan Hospital, Coimbatore**, **Dr. M. Ramalingam** successfully performed a **Robotic Pyeloplasty** on a baby just **1 month and 18 days old** using the **SSi Mantra Surgical Robotic System**.

The procedure involved reconstructing the narrowed or obstructed junction between the kidney and ureter to restore the normal flow of urine. In a patient this young, delicate dissection and reconstruction within a confined operative field presents a distinct surgical challenge.

The procedure was supported by **specialised 5 mm ports and 5 mm robotic instruments developed by SS Innovations for pediatric surgery**. Designed for smaller anatomical spaces, the instruments provided the fine control and manoeuvrability required at this scale. Dr. Ramalingam was particularly pleased with their performance and the precision they offered during the procedure.

The case reflects **Dr. M. Ramalingam's clinical judgement, experience and technical expertise**. Navigating such confined anatomy required meticulous dissection, precise suturing and controlled movements throughout the reconstruction. According to the treating team, the baby is doing well and continuing on the path to recovery.

As robotic platforms are complemented by instruments designed for smaller patients, new possibilities are emerging for intricate procedures in anatomical spaces where **every millimetre matters**. At just **1 month and 18 days old**, this was a remarkably small patient requiring an extraordinary degree of surgical precision.

A milestone shaped by surgical expertise, purpose-built instrumentation and precision at the tiniest scale.



| Dr. M. Ramalingam with the baby and family following the successful robotic pyeloplasty.