

Other Instructions

About the Khoo Teck Puat – National University Children's Medical Institute (KTP-NUCMI)

The KTP-NUCMI is the paediatric arm of the National University Hospital and comprises the Departments of Paediatrics, Paediatric Surgery and Neonatology. We provide comprehensive and specialised medical and surgical services for newborns, children and adolescents. NUH is the only hospital in Singapore that offers paediatric kidney and liver transplant programmes. Through a generous gift from the Estate of Khoo Teck Puat, we have set up an integrated outpatient facility with medical, diagnostic and rehabilitation services.

For more information about us, visit www.nuh.com.sg/ktp-nucmi.

Contact Us

24-hour Children's Emergency

Location: NUH Main Building, Zone F, Level 1
General Enquiry: +65 6772 5000

KTP-NUCMI

Location: NUH Main Building, Zone E, Level 2
(Accessible via Kent Ridge Wing, Zone C, Level 2, Lift Lobby C)
Operating Hours: 8.30am – 5.30pm (Mon to Fri), 8.30am – 12.30pm (Sat)
General Enquiry: +65 6772 5736 Appointment Line: +65 6908 2222
Email: ktpnucmi_appt@nuhs.edu.sg

9a Viva-University Children's Cancer Centre

Location: NUH Medical Centre, Zone B, Level 9
Operating Hours: 8am – 5.30pm (Mon to Fri)
Appointment Line: +65 6772 5030 Fax: +65 6872 4314
Email: cbccappt@nuhs.edu.sg

NUH Children's Urgent Care Clinic @ Bukit Panjang

Location: Junction 10, 1 Woodlands Road, #01-22, Singapore 677899
Operating Hours: 9am – 11pm daily (including public holidays)
General Enquiry: +65 6219 1538 Email: childrenucc@nuhs.edu.sg
Website: www.nuh.com.sg/ucc

NUH Child Development Unit @ JMC

Location: Jurong Medical Centre,
60 Jurong West Central 3, Level 2, Singapore 648346
Operating Hours: 8.30am – 5.30pm (Mon to Fri)
Appointment Line: +65 6665 2530/2531 Fax: +65 6665 0158
Email: cdu@nuhs.edu.sg Website: www.nuh.com.sg/cdu

NUH Child Development Unit @ Keat Hong

Location: Keat Hong Community Club,
2 Choa Chu Kang Loop, #03-01, Singapore 689687
Operating Hours: 8.30am – 5.30pm (Mon to Fri)
Appointment Line: +65 6769 4537/4637 Fax: +65 6665 0158
Email: cdu@nuhs.edu.sg Website: www.nuh.com.sg/cdu

National University Hospital

Location: 5 Lower Kent Ridge Road, Singapore 119074
Tel: +65 6908 2222 Email: contactus@nuhs.edu.sg
Website: www.nuh.com.sg



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Information is correct at the time of printing (February 2023) and subject to revision without prior notice.

Micturating Cystourethrogram



Khoo Teck Puat – National University
Children's Medical Institute

The information provided in this publication is meant purely for educational purposes and may not be used as a substitute for medical diagnosis or treatment. You should seek the advice of your doctor or a qualified healthcare provider before starting any treatment or if you have any questions related to your health, physical fitness or medical condition.

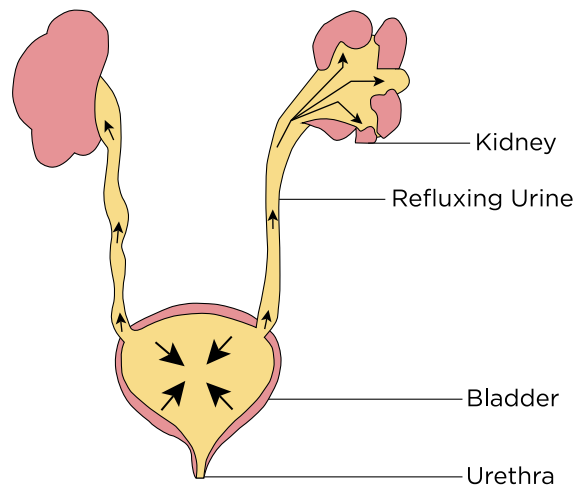
What is a Micturating Cystourethrogram?

A micturating cystourethrogram (MCU) is a procedure that involves having a special X-ray to scan your child's bladder as it fills and empties. The procedure lasts approximately 30 minutes.

Why does my child need a MCU?

It is done to detect the following problems:

- Urinary reflux, also known as vesicoureteric reflux (VUR), which refers to backflow of urine from the bladder to the kidneys
- Abnormalities of the bladder or urethra



How is MCU done?

Before the procedure:

The doctor will use lubricating gel to insert a clean plastic tube, also known as a catheter, into your child's bladder through the urethra. This may cause some discomfort. The urinary catheter will then be taped in place.

During the procedure:

Your child's bladder will be filled with fluid contrast or dye through the catheter, which will show the direction of urine flow on a series of X-rays.

As your child passes urine and empties his or her bladder, X-ray images will be taken to look for any abnormalities of the bladder or urethra. If VUR is present, the dye will flow upwards from the bladder into the ureters towards the kidneys as the bladder becomes full.

Caregivers are encouraged to stay with their child while the X-rays are being taken.

At the end of the procedure, the catheter will be removed.

Will MCU hurt my child?

MCU is generally a safe procedure. The amount of radiation used to perform the X-ray is low.

However, there are minor risks associated with the procedure. These include:

- The occurrence of urinary tract infections despite taking preventive antibiotics.
- Allergic reactions to the dye. This is, however, very rare.
- Local injury to the urethra leading to minor bleeding.
- Reluctance to pass urine after the procedure due to bladder or urethra irritation.

How do I prepare for MCU?

Your child will not be sedated for this test, so he or she can eat and drink before the procedure.

Ensure that the antibiotic has been given as prescribed by the doctor.

Bring an extra set of clothing in case your child's clothes are soiled during the procedure.

If you are or may be pregnant, you will not be allowed to stay with your child in the room when the X-rays are being taken. You may arrange for someone else to accompany your child during the procedure.

What should I do after the procedure?

- Ensure that your child completes the course of antibiotics prescribed to minimise the minor risk of infection.
- Your child may feel a stinging sensation when urinating the first few times after the procedure. Drinking extra fluids may help ease the discomfort.
- If your child is afraid of passing urine because of the discomfort, allow him or her to sit in a warm bath and urinate while submerged.
- Although rare, you may notice some blood in your child's urine. However, this should clear up in 1-2 days. Otherwise, please inform your doctor.

What happens after the procedure?

A follow-up appointment will be arranged for your doctor to review and explain the findings to you and advise if any further action is needed.