



Food or Drug Challenge

WHAT IS A FOOD OR DRUG CHALLENGE?



A food or drug challenge is a safe in-hospital procedure performed to exclude or to confirm a food or drug allergy. It is one of the established methods for diagnosing food or drug allergies.

It is performed in cases where skin or blood tests:

- Do not conclusively suggest a true allergy.
- Suggest that the allergy may be outgrown or that the likelihood of allergy is low.

+ On the day of the challenge

- You or your child should be well on this day (e.g. not having cough, fever, runny nose or diarrhoea).
- You or your child should not be taking any cough or runny nose medications such as Chlorpheniramine, Fexofenadine, Diphenhydramine, Loratadine, Desloratadine, Hydroxyzine, Cetirizine and Levocetirizine for at least 3 days prior to the challenge.



- Please bring along the appropriate amount of food item for the challenge as advised by your physician. In the case of a drug challenge, the medication will be prescribed on the day.
- The procedure will last for 4 to 8 hours at the Paediatric Day Therapy at Main Building, Level 4.
- Please bring along reading materials, activity books or toys to keep you or your child occupied.

WHAT CAN I EXPECT?

- Before the start of the food or drug challenge, the doctor
 will make sure that you or your child is well and does not
 have a runny nose, rashes, swelling in any part of the body
 and abnormal breathing sounds in the lungs.
- A parent or legal guardian will need to be present to give informed consent for all patients below 21 years old before the procedure can start.
- You or your child will be given a small amount of food or drug first, with increasing doses administered over a period of time.
- Once the full dose is given, you or your child will need to remain at the hospital for another 1 to 2 hours to ensure that there are no delayed reactions after the challenge.





- Emergency medicine is available if you or your child develops an allergic reaction. These can be given promptly if necessary.
- In the event of an allergic reaction, the challenge will be stopped, and emergency measures will be taken.
- There will be healthcare personnel on standby throughout the challenge.



WHAT SHOULD I BRING FOR THE CHALLENGE?

+ Drug challenge

The medication will be prescribed by our healthcare personnel on the day of the challenge.



+ Food challenge

Please bring along the appropriate amount of food item for the challenge as advised by your physician or as indicated in the table below.

You may wish to bring along other food to consume with the challenged food (it should not contain any allergens that you or your child is allergic to). Physician to tick the boxes to indicate what items patients should bring:

Food Type	What To Bring
Cow's Milk	2 baked milk muffins 300ml fresh or formula cow's milk
Peanuts	1 bottle of smooth peanut butter 100g of peanuts (individually packed)
Nuts	100g of nut indicated by physician (individually packed)
Wheat	Wheat biscuits or 250g cooked wheat noodles

Food Type	What To Bring
	2 baked egg muffins
Eggs	2 hard-boiled eggs
	1 soft-boiled egg
Soy	300mls soy milk
Meat / Fish / Seafood	1 palm size portion of cooked protein 20 pieces cooked prawns or clams
Others	250g of food that caused the allergic reaction

YOU OR YOUR CHILD WILL BE HAVING A CHALLENGE ON

Date:	Time:
*Duration will be advised	by your doctor.
Location: Paediatric Day Therapy, 1	NUH Main Building, Level 4
	KHOO TECK PUAT – NATIONAL UNIVERSITY CHILDREN'S NUHKIDS), (ZONE E), LEVEL 4 FOR REGISTRATION.
For enquiries relating to y Paediatric Allergy Enquir Email: allergy_kids@nuhs	
For rescheduling of appoi Paediatric Day Therapy: (Email: paeds_daytherapy	(65) 6772 7814
Food or drug:	
Food or drug:	
The estimated cost, exclu	ding consultation, other investigations and medications, 100. Please note that these outpatient fees are not claimable
The estimated cost, exclu	ding consultation, other investigations and medications, 100. Please note that these outpatient fees are not claimable
The estimated cost, exclu ranges from \$300 to \$1,0 by Medisave.	

RECIPES

If you or your child are are allergic to any of the items in the ingredient list, kindly discuss with your physician.

BAKED MILK MUFFIN RECIPE One muffin = 40ml of baked milk

Ingredients:

150g self-raising flour (or flour substitute)

80g sugar

2 tsp baking powder

1/4 tsp salt

200ml of cow's milk

30ml canola oil

1/4 mashed banana

By Paediatrics Allergy, Immunology & Rheumatology team

Directions:

- Preheat oven to 180°C.
- •Line the muffin tin with 5 muffin liners.
- •Sift flour and baking powder into a bowl and add the sugar and salt, mix well and set aside.
- •Mix together the wet ingredients (cow's milk, canola oil and mashed bananal and mix it well.
- •Add wet ingredients to the dry ingredients. Stir until combined.
- Divide the batter into the 5 prepared muffin liners. Depending on the size of your muffin tin, you may need to fill the muffin liners all the way to the top.

• Bake for 30 minutes, or until golden brown and firm to touch.

BAKED EGG MUFFIN RECIPE

Ingredients:

1 cup all-purpose flour (or flour substitute)

1/4 tsp salt

2 tbsp cow's milk (or soy milk, rice milk, almond milkl

1 tsp baking powder

1/4 tsp cinnamon

2 eggs

1/2 cup sugar

1/4 cup corn oil

1/2 tsp vanilla

1 cup mashed ripe banana or applesauce

By Jaffe Food Allegry Institute

Directions:

- Preheat oven to 175-180°C.
- •Line a muffin pan with 6 muffin liners.
- Mix together the liquid ingredients: milk or milk substitute, canola oil, vanilla extract, mashed ripe banana or applesauce and eggs. Set aside.
- •In a separate mixing bowl, mix together the dry ingredients: flour or flour substitute, sugar, salt, cinnamon, baking powder.
- Add the liquids ingredients to the dry ingredients. Stir until combined. Some small lumps may remain.
- •Divide the batter into the six prepared muffin liners. Depending on the size of your muffin tin, vou may need to fill the muffin liners all the way to the top. If you make more than 6 muffins, please note how many muffins you made and bring at least two muffins with you on the day of the challenge.
- •Bake for 30 to 35 minutes or until golden brown and firm to the touch.

About the National University Centre for Women and Children

National University Centre for Women and Children (NUWoC) is a national university specialist centre that aims to empower women, children and their families to lead healthier lives. We provide comprehensive medical and surgical services ranging from pre-conception to child and maternal health.

NUWoC comprises the Department of Obstetrics & Gynaecology (0&G) and Khoo Teck Puat - National University Children's Medical Institute (KTP-NUCMI) of National University Hospital. It focuses on the right-siting of appropriate services in the community and builds complementary services in National University Health System's (NUHS) centres of excellence - Ng Teng Fong General Hospital and Alexandra Hospital.

Through a generous gift from the Estate of Khoo Teck Puat, KTP-NUCMI established an integrated outpatient facility with medical, diagnostic and rehabilitation services for children. We are also the only public specialist centre in Singapore that offers paediatric kidney and liver transplant programmes.

For more information about us, visit www.nuh.com.sg/NUWoC

Children's Emergency (24-hr)

Location NUH Main Building, Zone F, Level 1

Contact +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)

8.30am - 5.30pm (Mon to Fri), 8.30am - 12.30pm (Sat) Operating Hours

General Enquiry +65 6772 5736 Appointment Line +65 6908 2222

Email ktpnucmi appt@nuhs.edu.sg

9a Viva-University Children's Cancer Centre

NUH Medical Centre, Zone B. Level 9 Location

Operating Hours 8am - 5.30pm (Mon to Fri)

Appointment Line +65 6772 5030 Email

cbccappt@nuhs.edu.sq

NUH Children's Urgent Care Clinic @ Bukit Paniang

Junction 10. #01-22 Location

Operating Hours 9am - 11pm daily (including public holidays)

General Enquiry +65 6219 1538

Fmail childrenucc@nuhs.edu.sq

NUH Child Development Unit @ JMC

Location Jurong Medical Centre, Level 2 Operating Hours 8.30am - 5.30pm (Mon to Fri) Appointment Line +65 6665 2530 / 2531

cdu@nuhs.edu.sq Email

NUH Child Development Unit @ Keat Hong

Keat Hong Community Club, #03-01 Location Operating Hours 8.30am - 5.30pm (Mon to Fri)

Appointment Line +65 6769 4537/4637 Email cdu@nuhs.edu.sa

Clinic A22 NUWoC Children's Clinic @ NTFGH

Ng Teng Fong General Hospital Location

Tower A - NTFGH Clinics, Level 2 Operating Hours 8.30am - 5.30pm (Mon to Fri)

Appointment Line +65 6908 2222

Fmail appointment@nuhs.edu.sq

Our Patient Care Institutions

National University Hospital
Ng Teng Fong General Hospital &
Jurong Community Hospital
Alexandra Hospital
National University Polyclinics
Jurong Medical Centre
National University Cancer Institute, Singapore
National University Heart Centre, Singapore
National University Centre for Oral Health, Singapore
NUHS Diagnostics
NUHS Pharmacy



OneNUHS General Enquiries: contactus@nuhs.edu.sg OneNUHS Appointments: appointment@nuhs.edu.sg

www.nuhs.edu.sg



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