

# WORLD SMART MEDICATION DAY

An initiative of the IUPHAR to foster **CLINICAL PHARMACOLOGY**  
development

**2025 theme: “Sex/Gender differences in Clinical Pharmacology”**





# 2025 IUPHAR INTERNATIONAL STUDENTS' POSTER COMPETITION. MAY 8th

- All entries had to illustrate and reflect the 2025 thematic issue **“Sex/gender differences in Clinical Pharmacology”**
- Two poster entries:
  - **General posters:** open to all medical, pharmacy or pharmacology **pregraduate students.**
  - **Research posters:** open to all medical, pharmacy or pharmacology **pre- and post-graduate students.**
- **4 prizes** awarded by IUPHAR clinical and translational section

# General poster prize winners 2024



Lee Min ci

IMU



BRITISH  
PHARMACOLOGICAL  
SOCIETY





# General poster prize winners 2024



**Venessa Andrea Nugara**

Faculty of Medicine,  
University of Colombo,  
Sri Lanka



## Why NOT the Same Pill for Adults & Kids ?

Children are NOT "mini" Adults

Because of the differences in.....

**'PAEDIATRIC LABEL' vs. 'OFF LABEL USE'**  
Think twice before prescribing

<b>P</b>	<b>Pharmacokinetics</b>	- Immature blood brain barrier, liver, renal systems	
<b>A</b>	<b>Adverse Drug Reactions (ADRs)</b>	- Different spectrum of ADRs Eg: aspirin causing Reye's syndrome	Correct dose
<b>E</b>	<b>Effects on growing tissues</b>	- Eg: tetracycline staining enamel, steroids reducing height velocity, anti-epileptic medicines impairing cognitive function	
<b>D</b>	<b>Dynamics of Pharmacology</b>	- Limited information. Yet, the differences may influence drug action & toxicity. Eg: augmented response to warfarin	
<b>I</b>	<b>Indication</b>	- Different type, severity and spectrum of diseases	Suitable drug formulation & Route of administration
<b>A</b>	<b>Acceptance &amp; Palatability</b>	- Difficulty in administration, unfavorable routes of administration & lower palatability leads to poor compliance	
<b>T</b>	<b>Toxicity</b>	- Difficulty in dosing; Poor storage leading to accidental poisoning; Substance misuse in adolescents	Adequate duration
<b>R</b>	<b>Risks</b>	- Children are more susceptible to medication errors and their harmful effects	
<b>I</b>	<b>Inability to express problems</b>	- Newborns, infants, toddlers are unable to properly express their symptoms or unpleasant effects of medication.	
<b>C</b>	<b>Compliance</b>	- Especially in younger children, mostly drugs are administered at home by their caregivers.	Correct Drug Dosage Regimen

Together let's ensure 'Medication Safety' in all our children

Correct selection of the drug → Selection of the suitable drug regimen → Errorless Prescription & Dispensing



## Micheael Sponfeldner (Germany)

Institute of Experimental and Clinical Pharmacology and Toxicology, Chair of Clinical Pharmacology and Clinical Toxicology, Friedrich-Alexander-Universität Erlangen-Nürnberg, Erlangen, Germany

Pseudo-worsening of kidney function due to inhibition of transporter-mediated renal secretion of creatinine: A threat to medication safety in the elderly



## Jie En Valerie Sia (China)

Drug Clinical Trial Center, Peking University Third Hospital, Beijing, China

Frailty phenotype as a sensitive indicator of aging-related CYP3A functional changes: application of dose optimization recommendations for ticagrelor in frail older population



DGKliPha



**SAVE THE DATE**  
**WORLD SMART MEDICATION DAY 2025**  
**MAY 8th**

