

# Global Pharmacy Developing the Pharmacists of Tomorrow

#### **Anisha Kaur Sandhu**

Monash University Malaysia,
International Pharmaceutical Federation (FIP)

#### **Presentation Outline**

#### 1. Introduction to pharmacy

History of pharmacy

#### 2. Pharmacy education focus

- Collaborative care
  - Example: Interprofessional education (IPE) at Monash Malaysia

#### 3. A career in pharmacy

Career pathways

#### 4. Global trends in pharmacy



# How did it all begin?

#### A history of pharmacy

- Pharmaceuticals are among the most researched fields in the academic industry
- History indicates that prescriptions recording pharmacological knowledge predates to 15<sup>th</sup> BC in the Mesopotamian era
- European apothecaries began to appear in the 12<sup>th</sup> century
- Industrialization of the pharmaceutical world began in the 1800s
  - Purification of organic compounds
  - Organic chemical synthesis

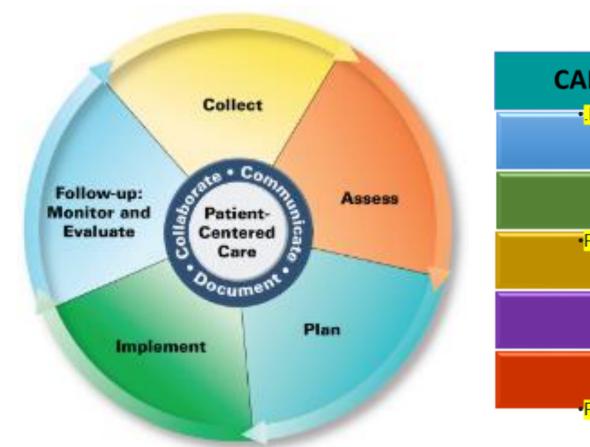
# Where do pharmacists work?

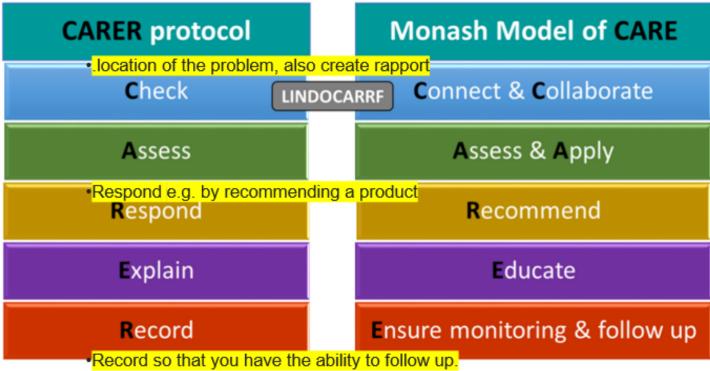
Healthcare settings

- Community pharmacy
- Hospital
- Universities
- Pharmaceutical companies
- Ministries of health

#### What do pharmacists do now?

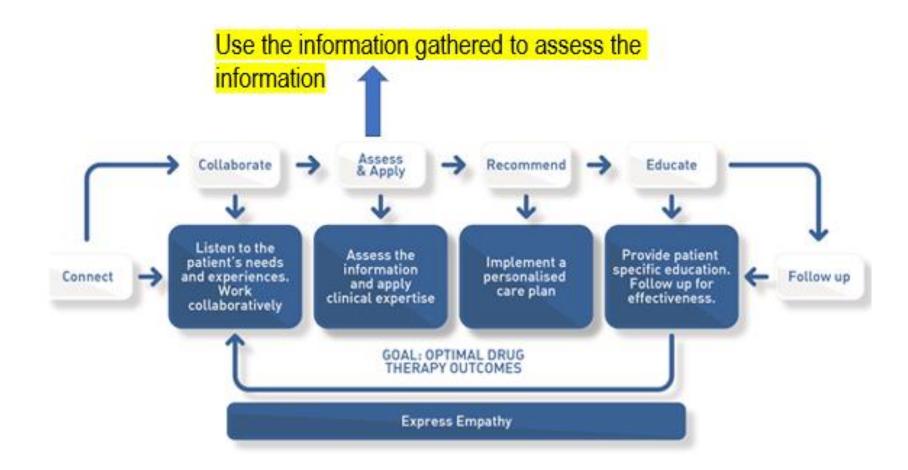
Evolving to provide patient-centered care





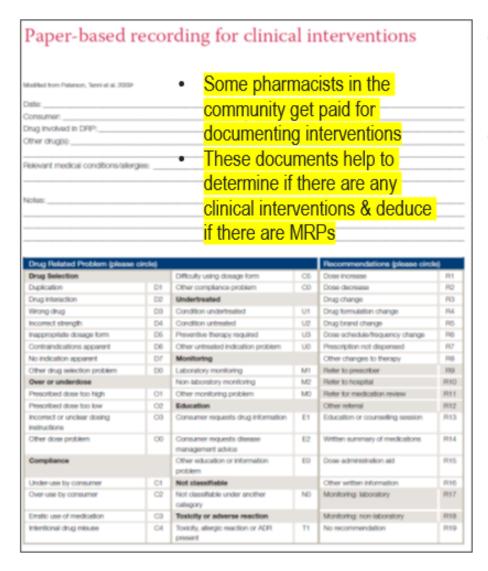
#### What is the Monash Model of CARE?

From patient presentation to patient education – the full CARE process



#### Pharmacist Interventions

Preventing medication-related problems (MRPs)



- Patients often present to hospital due to medication-related problems (MRPs)
- As a pharmacist, we play a large role in:
  - Identifying MRPs
  - Reducing MRPs
  - Reducing hospitalization rates
  - Improving a patient's QOL

# How do we identify MRPs?

#### The NESA-U method

- Is this medication necessary for my patient?
- Is this medication **effective** for my patient?
- Is this medication safe for my patient?
- Does my patient have any adherence issues with this medication?
- Does my patient have any **unmet needs?** (e.g. referral to a healthcare professional, non-drug measures)

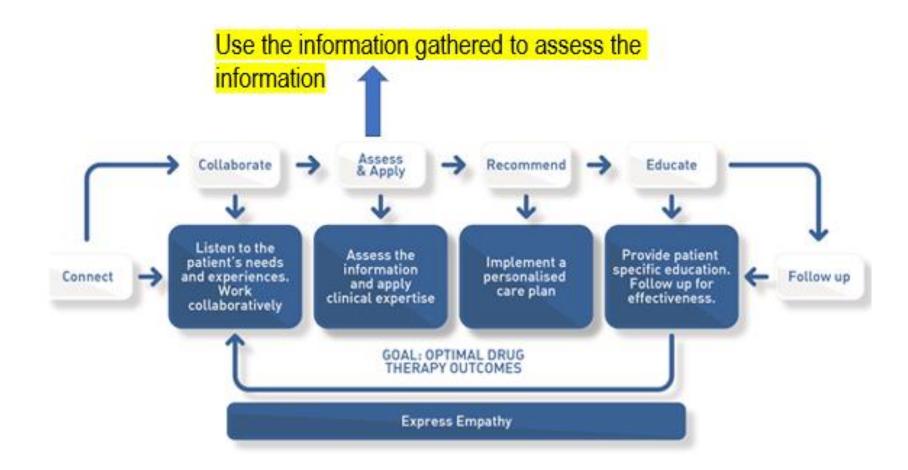
# How do we identify MRPs?

#### The NESA-U method

- Is this medication necessary for my patient?
- Is this medication **effective** for my patient?
- Is this medication safe for my patient?
- Does my patient have any adherence issues with this medication?
- Does my patient have any **unmet needs?** (e.g. referral to a healthcare professional, non-drug measures)

#### What is the Monash Model of CARE?

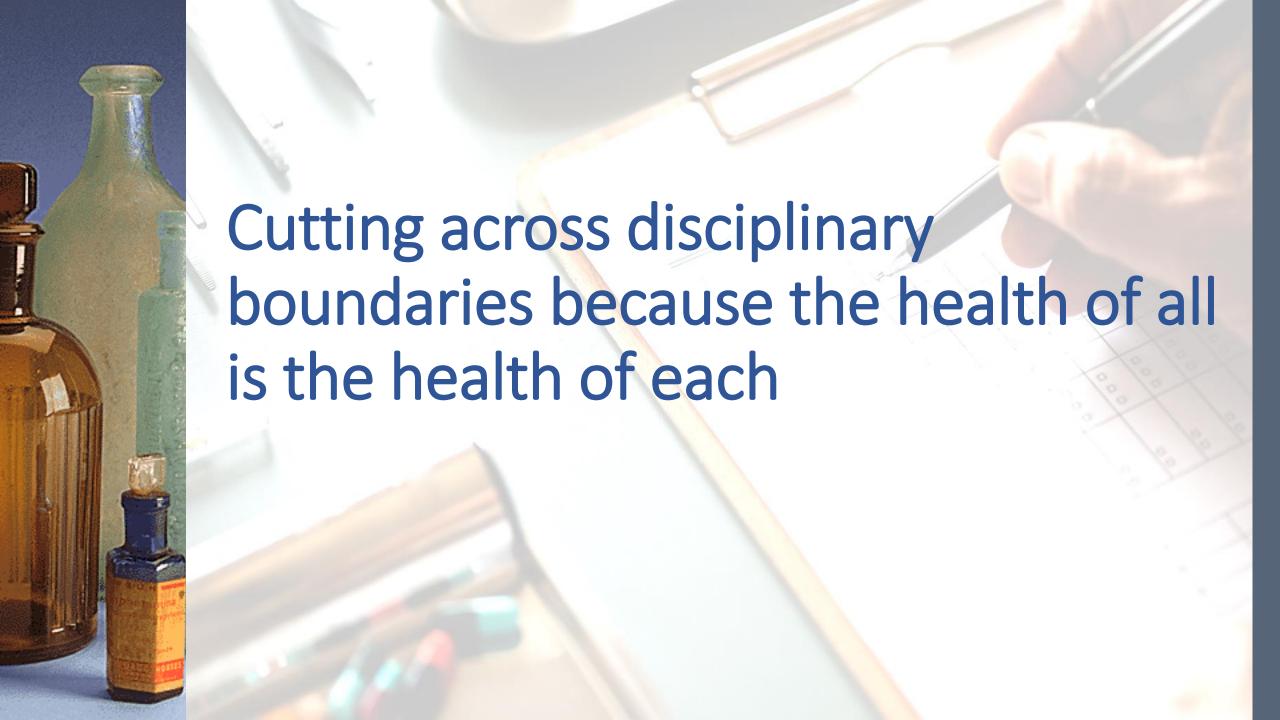
From patient presentation to patient education – the full CARE process



#### Pharmacists are essential frontliners

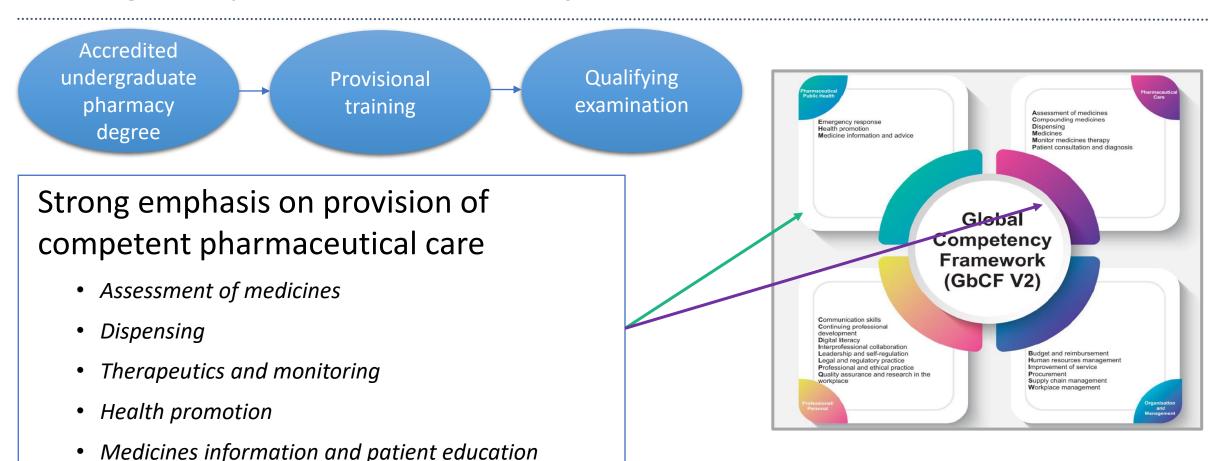
Pharmacy contribution during the pandemic

- Pharmacists and pharmaceutical scientists contributed in:
  - Adapting to digital health technologies
  - Ensuring continuity of care of their communities
  - Advocating health literacy
  - Supporting health promotion
  - Research & development of vaccines and medicines
  - Workforce development & education



# Guiding principles from FIP frameworks

Creating a competent and resilient workforce



# Guiding principles from FIP frameworks

Global vision for education and workforce





- 4.1 Developing appropriate communication skills
- 4.2 Identifying learning and development needs, evaluating progress and recognizing limitations, reflective practice
- 4.4 Interprofessional collaboration
- 4.5 Self-regulation/ resilience
- 4.7 Recognizing professional limitations, responsibilities and practicing social accountability



### Addressing gaps in workforce readiness

Holistic development in education and early career pharmacy

Interprofessional Career Resilience Skills coaching education development training

- Encourage collaborative learning and practice
- Provide insight and manage expectations on future career pathways
- Develop reflective practitioners

PHARMACY

- Develop core skills in problem-solving, oral & written communication, empathy, reflective practice, teamwork, integrity and inquiry
- Create a flexible, adaptive future workforce

# Breaking down silos in healthcare

Treating patients holistically & preventatively

- Silos in healthcare are detrimental to patient outcomes:
  - Communication between healthcare professionals is limited
  - Patients dealt with episodically vs holistically
  - Patients are not included in medical care planning

- Provider-centric focus is being replaced by patient-partnered approach
  - Patient should be at the centre with healthcare team sharing information & working together to ensure optimal health outcomes

# Patient-partnered care via interprofessional collaboration

Hitting the reset button!

- Switching from reactive healthcare to become:
  - Proactive
  - Preventative
  - Collaborative
- Interprofessional collaboration is necessary
- Positive effects include:
  - Better continuity of care
  - Shared decision-making in achieving patient therapeutic goals
  - Patient satisfaction

### Championing collaborative care

Approaches to interprofessional collaboration post-pandemic

#### "One FIP" goals

We can have no pharmaceutical care without a pharmaceutical workforce, and we can have no pharmaceutical care without a scientific foundation for the next decade.



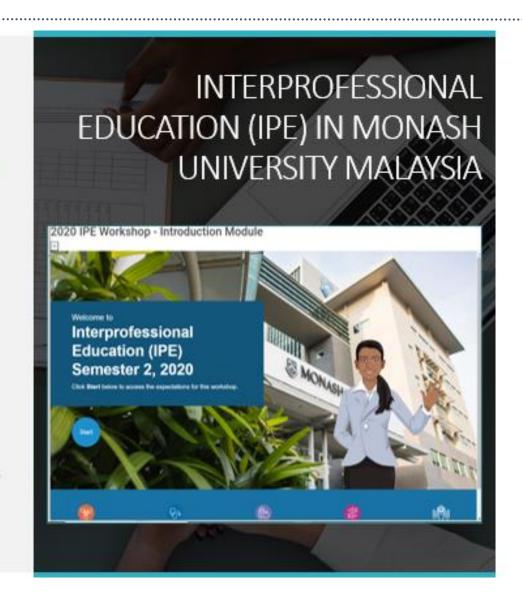
#### Starting from the grassroots

Interprofessional education in classrooms -1



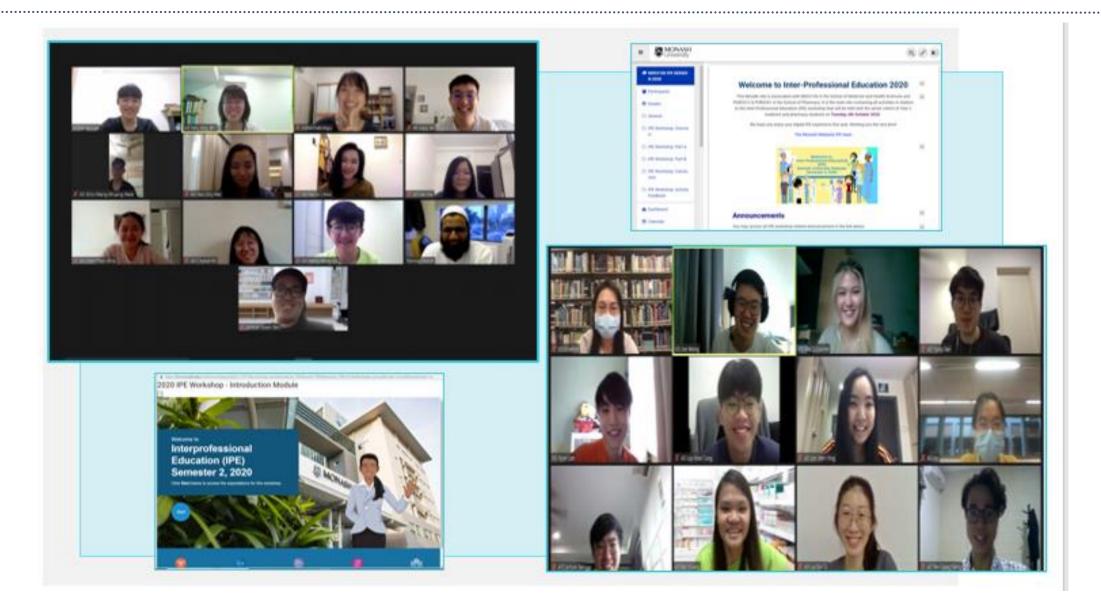
Encourages students to learn with, from and about each other<sup>1,2</sup>

- Monash University established the Collaborative Care Curriculum framework<sup>1,3</sup> encompassing four key learning themes:
  - Person-centered care
  - Role understanding
  - Interprofessional communication
  - Collaboration across themes
- Monash University Malaysia (MUM) has been carrying out IPE among medicine and pharmacy students since 2017



# Starting from the grassroots

Interprofessional education in classrooms -2





A career in pharmacy is to serve society impactfully



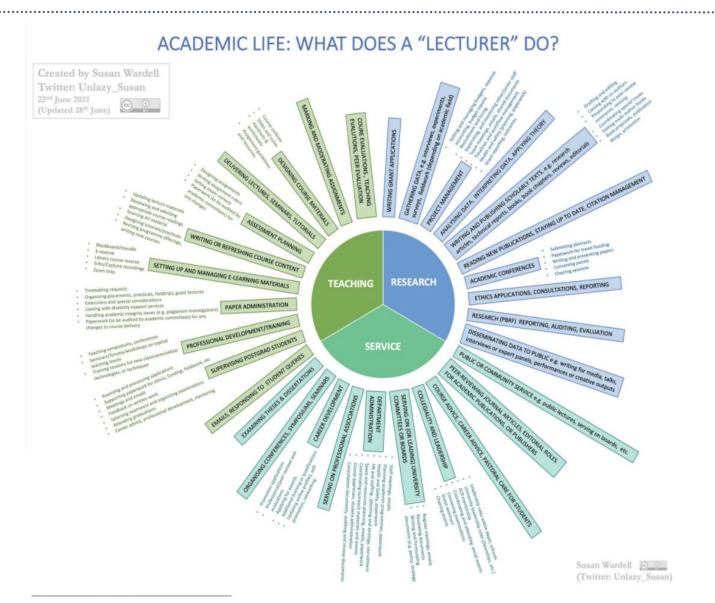
# Career paths in pharmacy

Serving society impactfully

- Hospital pharmacy
- Community pharmacy
- Academia
- Industry
- Regulatory & policy
- New & specialized fields are emerging e.g. astropharmacy

# At a glance... Academic Pharmacy

Did you know how much work your lecturer does "behind the scenes"?



- Teaching
- Research
- Service/ Engagement

Infographic Reference:
Dr. Susan Wardell, University of Otago
An academic's role within the University environment.
Creative Commons License – Copyright, Susan Wardall
– Source Twitter: Unlazy Susan.



# Wellbeing & resilience is key!

Highlighting the importance of mental health

- Greater emphasis on mental health support and personal wellness
- Importance of building communication and rapport with long-term clients & increasing the pharmacist profile within communities
- Redesigning existing curriculums to emphasize personal wellness in degree programs
- Online academic-led program e.g. Monash PIES, to improve student engagement by prioritising communication, wellbeing and social support

# Increasing the scope of pharmacy practice

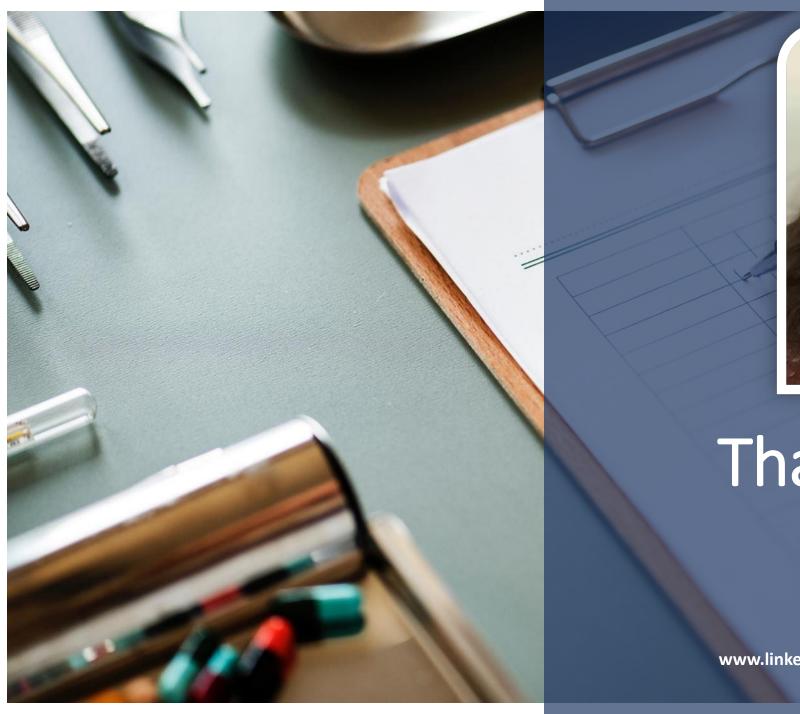
A valued member of the healthcare team

- Utilizing pharmacists effectively in the healthcare team to optimize health outcomes in the communities by:
  - Providing funding for services such as
    - Disease prevention
    - Risk assessment
    - Screening
    - Referral
    - Disease management
    - Medicines optimization

### Digital health

#### The future is digital

- Novel digital health solutions:
  - Aimed at improving clinical documentation
  - Increasing efficiency of clinical services
  - Improving patient health literacy
  - Improving drug development processes





# Thank You

Anisha Kaur Sandhu

+60 3 5514 6000 ext 44959

Anisha.Kaur@monash.edu

www.linkedin.com/in/anishasandhu/



**PHARMACY** 

Always trusted for your health

