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OVERVIEW OF CLINICAL PHARMACIST ROLES IN SURGERY AND PERIOPERATIVE MEDICINE

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DISCLOSURE

In relation to this presentation, I declare the following, real or perceived conflicts of interest:

Nil

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LEARNING OBJECTIVES

Outline the pharmacist role in surgery and perioperative medicine

PHARMACIST COMPETENCY STANDARDS

Pharmacist competency standards* addressed include: • 3.1.2 Assess medication management practices and needs

"National competency standards framework for pharmacists in Australia, 2016

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SURGERY

"Surgery comprises surgical or operating room procedures including patients under the care of the Trauma unit" SHPA Standards of Practice in surgery and perioperative medicine for pharmacy services 2021

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SURGICAL PHARMACIST ROLES

- Embedded within the relevant surgical team
- Documentation of best possible medicines history (BPMH)
- Medication reconciliation
- Regular clinical pharmaceutical review
- Optimise medicines regimes
- Develop perioperative medicine management plans
 - Consider potential for altered PK/PD

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PERIOPERATIVE MEDICINE PHARMACIST ROLES

- · Various roles and settings such as:
 - Preadmission assessment clinics
 - Document BPMH

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- Optimise medicine regimes
- Develop medicine management plans before surgery
- Operating theatre environment
 - Clinical support to medical and nursing staff
 - Medication safety
 - Cost-effective medication utilisationPost Anaesthetic Care Unit order review
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SURGICAL PHARMACIST ROLES CONTINUED..

- Adverse drug reaction monitoring and reporting
- Active participation on surgical ward rounds
- Discharge medicine reconciliation & medicines management plan for discharge
- Facilitate safe medicines administration on discharge
- Provide relevant medicines information to patients and carers

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PERIOPERATIVE MEDICINE PHARMACIST ROLES CONT'D...

- Timely medicine supply
- Drug interactions relevant to anaesthesia
- Controlled substance governance and surveillance
- · Provision of drug information and education
- · Financial reporting
- Drug shortage risk mitigation

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EMERGING ROLES

- · Pre-habilitation
- Smoking cessation intervention and NRT
- Partnered Pharmacist Medication Charting
- Involvement in surgical outpatient clinics
- · Pharmacist-led TDM (e.g., antibiotics)
- · Perioperative allergy testing
- · Vaccination e.g., influenza vaccine, splenectomy, COVD-19
- Pharmacogenomic testing and counselling
- Pharmacist-led analgesic de-escalation

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QUALITY IMPROVEMENT ROLES

- Multidisciplinary education
- Policy, procedures and guidelines
- · Surgical and perioperative medicine committee involvement
- · Input into medicines formulary decisions
- · Delivery of patient education
- · Quality improvement and research
- Promote safe use of medicines

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NECESSARY KNOWLEDGE & SKILLS

- Knowledge of pathophysiology, diagnostics and therapeutics in surgical area
- Ability to identify medicines that need modification perioperatively
- · Deliver medicines education tailored to the patient
- Clinical reasoning
- · Understand risk factors for medicine non-adherence
- Able to retrieve and synthesize evidence

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SUMMARY

- Surgery and perioperative medicine pharmacists work across a diverse range of clinical settings
- Key focus improve medicines management and minimise medicine-related harm
- · Integration into relevant surgical/anaesthetic teams crucial
- Essential and emerging roles which demonstrate improvement to patient outcomes
- Necessary knowledge and skills to work effectively within surgery and perioperative medicine

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