

Peri-operative Management

of patients with diabetes





Easy

Omit some orals
Half some insulin
Omit some insulin
Restart when eating

Not my problem

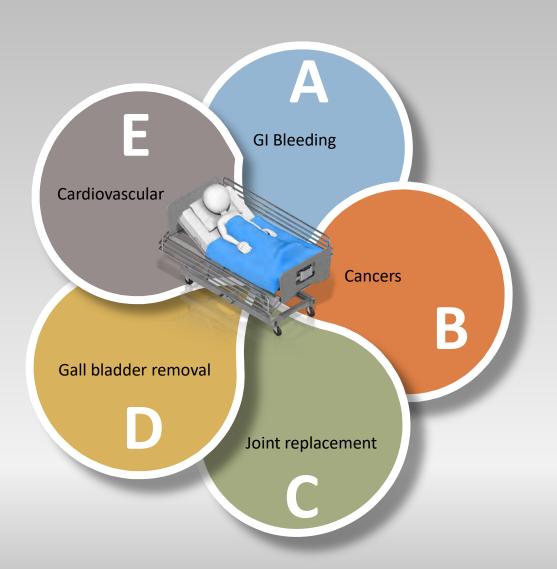
Pre-admission Anaesthetists Surgeon Hospital staff Or whoever



Peri-op instructions

Admission ...changing trends





Hospitalisations

...likelihood

Diabetes & Surgery

More than just medication adjustment



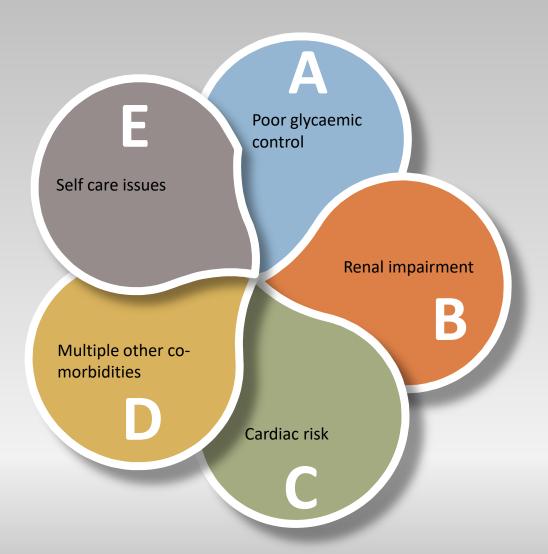


Diabetes & Surgery

Special category





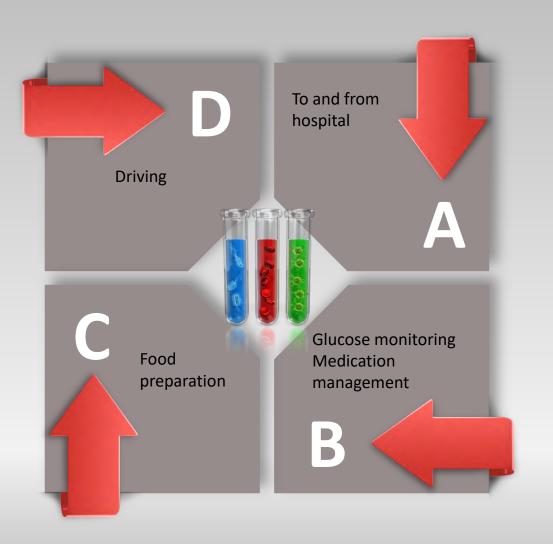


Worse outcomes if...

Vascular events in non-Cardiac surgery patients cohort evaluation (VISION) Trial

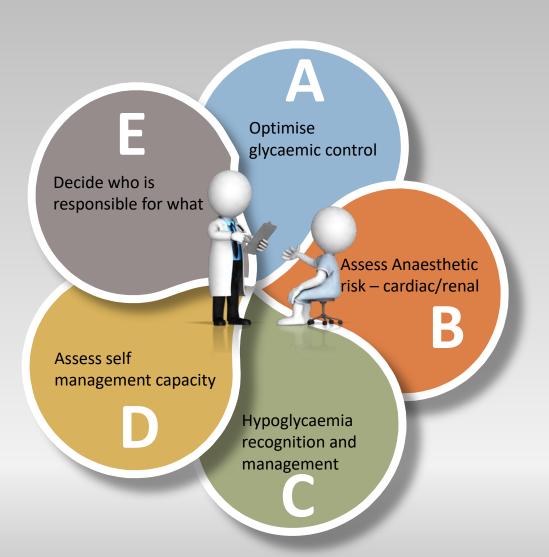
21,000 patients 13 countries, myocardial injury in noncardiac surgery, 30-day mortality The 30-day mortality for the entire patient population was 1.2% (95% CI 1.1%–1.4%)

Troponin Threshold(ng/L)	Patients (%)	Mortality Rate (%)	HR (95% CI)	P
≥20 to <65	18.6	3.0	23.6 (10.3-54.1)	<0.001
≥65 to <1000	5.1	9.1	70.3 (30.6-161.7)	<0.001
<u>≥</u> 1000	0.2	29.6	227.0 (87.4- 589.9)	<0.001



Patient Self Management





Use time between decision for surgery and actual date to:





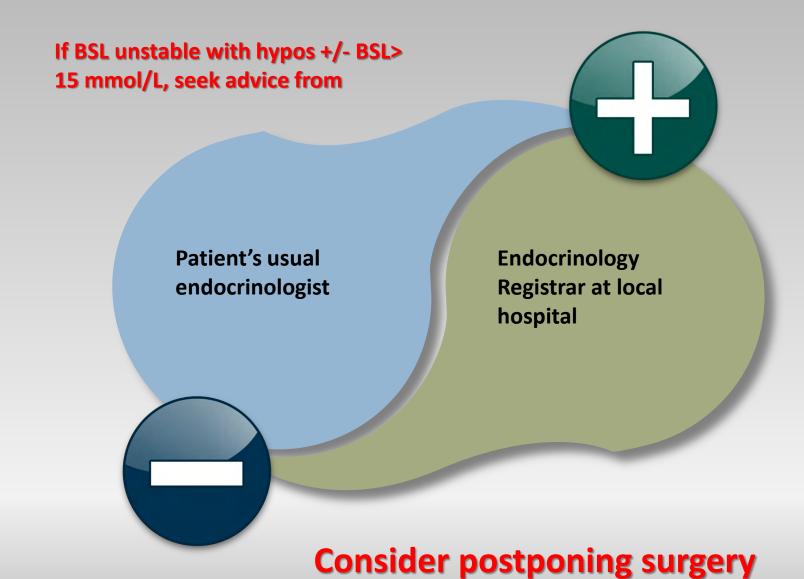
Postpone surgery?

Consider postponing surgery if HbA1c > 9.0%
Consider referral to if unable to improve glycaemic control

Written Instructions

Clear instructions for patient and carer Clear information for anaesthetist and surgeon Ask to review patient earlier





Healthpathways

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	Type 2 Patients on basal insulin +/- oral medications +/-GLP RA Injections Colonoscopy									
Bow		Oral Rx	GLP RA Injections	Basal Insulin	Diet	Testing	Aim*			
2 da	2 day prior to procedure	Usual meds	Usual dose	Continue usual dose	Encourage similar carb intake	Monitor BSL pre and 2 hours after each meal and before bed Titrate insulin or increase carbs if necessary	6-10 mmol/L 6-14 mmol/L if elderly of patients with advanced diabetes			
Day	1 day before procedure	Usual meds No SGLT2 inhibitors Watch for hypos if on SU	Usual dose	Basal only regimen: Usual morning dose (if any) Half evening dose Basal + Bolus regimen: Usual morning dose (if any) Half evening dose No rapid acting insulin	carbohydrate containing fluids every 2-3 hours reduce if BSL trending high	Every 2 hours whole day plus 2 am if possible *4	6-10 mmol/L 6-14 mmol/L if elderly of patients with advanced diabetes			
Day	Day of procedure	No oral medications	Omit	Basal only regimen: Usual morning dose (if any) Basal + Bolus regimen: Usual morning dose of basal (if any) No rapid acting insulin	Fasting	Every 2 hours until meals resume then every 4 hours for rest of the day	6-10 mmol/L 6-14 mmol/L if elderly of patients with advanced diabetes			
	Post op	Usual meds from lunch time except SGLT2 inhibitors - restart 24 hours post op	Usual dose at next full meal	Basal only regimen: Usual evening dose Basal + Bolus regimen: Restart full rapid acting dose at next full meal	Usual diet	Every 2 hours until meals resume then every 4 hours for rest of the day	6-10 mmol/L 6-14 mmol/L if elderly o patients with advanced diabetes			

Give 10% total insulin dose as rapid insulin every 3-4 hours if BSL >10-12 mmol/L

Dear Colleague

This patient suffers from diabetes and is likely to undergo a procedure. As you know, in general, patients with diabetes are at higher risk of peri-operative complications. We should use the time between decision for surgery and surgery date to:

- Optimise glycaemic control
- Screen for complications
- Make adjustments to the medication regimen if necessary
- Assess patient's self-management capacity

Once the decision is made for surgery, please ask the patient to return to the practice for me to develop a **comprehensive peri-operative plan**.

Further information on the peri-operative care for patients with diabetes can be found at:

sws.healthpathways.org.au

The Planned Procedure	Date of procedure:
You have a Colonoscopy planned for the	Day: Date:
Your personal details:	Your contact details
Name	Your home number:
DOB	Your mobile number:
Address	Your next of kin:
Address	Next of kin contact number:
Your Diabetes	Medications you usually take for your diabetes:
Type 1 or Type 2 diabetes (circle one)	Tablets/injections
Duration of diabetes <5y 5-10y >10y (circle one)	Tablets/ injections
Doctor managing your diabetes	Insulin dose
Doctor managing your diabetes	msum dose
Your results	Your kidney function
Date of last blood test	, , , , , , , , , , , , , , , , , , , ,
Usual fasting glucose	Date of last eGFR
Last HbA1c	Last eGFR
Adjustment to your medications	Checking your blood glucose
2 days before procedure (Day:)	
Dietary intake	
Tablets/Injections	
Insulin dose	
1 day before procedure (Day:)	
Dietary intake	
Tablets/Injections	
Insulin dose	
On the day of procedure (Day:	
Dietary intake	
,	
Tablets/injections	
Insulin dose	
Check list	
Who will drive you to hospital?	
Who will drive you home from hospital?	
Are you able to cook for yourself afterwards?	Yes / No
Are you able to check your blood sugar afterwards?	Yes / No
Is anyone able to stay the night with you?	Yes / No





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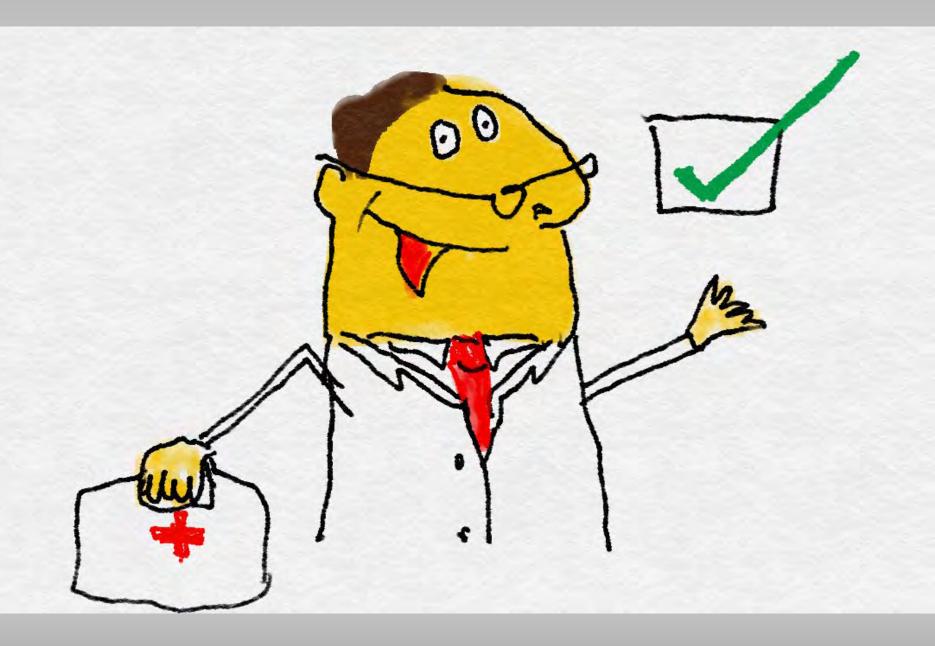
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Peri-op instructions





Thank you

