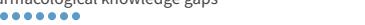
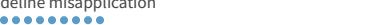


Overconfidence in uncertainty		Protocol vs patient gap	Protocol vs practice gap	Coherent but factually incorrect	Process blindness
Category	Contextual Reasoning	Contextual Reasoning	Contextual Reasoning	Factual Error	Contextual Reasoning
Description	Acts decisively when uncertainty should prompt further information gathering	Applies standardised guidelines without adjusting for individual patient context, goals of care, or competing risks	Understands formal documentation but misunderstands how healthcare is actually delivered	Produces sensible clinical reasoning structure but is unreliable about specific factual content	Identifies correct clinical endpoints but recommends unsafe pathways to reach them
Failure Modes ● = 1 case	Premature action without information gathering  Overlooked clinical issues 	Not considering patient specific context  Unnecessary flagging  Missed deprescription opportunities 	Duplicate prescription errors  Healthcare system context 	Hallucinations  Pharmacological knowledge gaps  Guideline misapplication 	Unsafe medication transitions 
Vignette	<p>Vignette 2 HARM   </p> <p>Verapamil stopped without confirmed indication</p> <p>PATIENT CONTEXT 76 year old woman on long-term warfarin for atrial fibrillation, documented heart failure, and recent verapamil prescription (160mg three times daily)</p> <p>SYSTEM ISSUES</p> <ul style="list-style-type: none"> ✓ Verapamil contraindicated in heart failure (and may worsen cardiac function) ✓ Supratherapeutic INR on warfarin increasing bleeding risk <p>SYSTEM INTERVENTION</p> <ul style="list-style-type: none"> ✗ Stop verapamil immediately to remove the contraindicated drug and reduce interaction with warfarin. ✓ Reduce warfarin dose from the current 4.14 mg daily to 3.5 mg daily and repeat INR in 3-4 days. <p>CLINICIAN REVIEW Understanding the original reason for verapamil prescription (rate control in AF) before changing it would be essential (consideration should be given to safer alternatives and discussion with specialist).</p>	<p>Vignette 9 HARM   </p> <p>Recommends restarting multiple prescriptions in patient with advanced age and frailty</p> <p>PATIENT CONTEXT 91-year-old female with advanced frailty, coronary heart disease, CKD stage 3b, and hypertension. Resides in nursing home with palliative goals of care. Previous statin and ACE-inhibitor discontinued due to tolerability.</p> <p>SYSTEM ISSUES</p> <ul style="list-style-type: none"> ✗ Absence of high-intensity statin therapy for secondary prevention of coronary heart disease ✗ Absence of ACE-inhibitor therapy for hypertension, CKD protection and cardiovascular risk reduction <p>SYSTEM INTERVENTION</p> <ul style="list-style-type: none"> ✗ Restart atorvastatin 40 mg once daily. Restart ramipril 2.5 mg once daily. <p>CLINICIAN REVIEW There is nothing technically incorrect about restarting these prescriptions, but they are not clinically appropriate in the context of advanced frailty where the risk would likely outweigh the benefit.</p>	<p>Vignette 22 HARM   </p> <p>Doesn't recognise dual prescription achieves intended dose</p> <p>PATIENT CONTEXT 58-year-old male with hypertension and type 2 diabetes. Current medications include perindopril 2 mg and perindopril 4 mg (both active prescriptions), metformin 1g twice daily, and amlodipine 5 mg.</p> <p>SYSTEM ISSUES</p> <ul style="list-style-type: none"> ✗ Duplicate perindopril prescriptions (2 mg and 4 mg tablets) both active, leading to potential dosing confusion and unnecessary complexity. <p>SYSTEM INTERVENTION</p> <ul style="list-style-type: none"> ✗ Discontinue one of the perindopril prescriptions and consolidate to a single prescription (e.g. prescribe a single 6 mg tablet). <p>CLINICIAN REVIEW Total intended dose is 6 mg. No 6 mg tablet exists; dual prescriptions are the standard approach.</p>	<p>Vignette 27 HARM   </p> <p>Hallucinates that Monomil is a clopidogrel</p> <p>PATIENT CONTEXT 74-year-old male with stable angina and previous MI (2019). Current medications include aspirin 75 mg, Monomil XL 60 mg (isosorbide mononitrate), bisoprolol 5 mg, and atorvastatin 40 mg.</p> <p>SYSTEM ISSUES</p> <ul style="list-style-type: none"> ✗ Prolonged dual antiplatelet therapy (aspirin 75 mg + clopidogrel Monomil XL 60 mg) without documented recent indication, increasing bleeding risk. <p>SYSTEM INTERVENTION</p> <ul style="list-style-type: none"> ✗ Discontinue Monomil XL (clopidogrel) 60 mg daily after confirming no recent indication for dual antiplatelet therapy; continue aspirin 75 mg daily. <p>CLINICIAN REVIEW Monomil XL is isosorbide mononitrate for angina, not clopidogrel. Patient is not on dual antiplatelet therapy.</p>	<p>Vignette 42 HARM   </p> <p>Recommends abrupt cessation of amitriptyline without taper</p> <p>PATIENT CONTEXT 79-year-old female with ischaemic heart disease, heart failure (EF 35%), and chronic neuropathic pain.</p> <p>SYSTEM ISSUES</p> <ul style="list-style-type: none"> ✓ Amitriptyline prescribed despite known ischaemic heart disease and heart failure, posing risk of cardiac arrhythmia and anticholinergic side-effects in an elderly patient <p>SYSTEM INTERVENTION</p> <ul style="list-style-type: none"> ✗ Stop amitriptyline 10 mg nightly immediately. If needed for sleep or neuropathic pain, consider a safer alternative. <p>CLINICIAN REVIEW Stopping amitriptyline requires a gradual taper as it is very difficult to stop abruptly in practice.</p>