

Steps	Process	Person specific issues to address
<b>1. Aims</b> What matters to the individual about their condition(s)?	<b>Review diagnoses and consider:</b> <ul style="list-style-type: none"> <li>Therapeutic objectives of drug therapy</li> <li>Management of existing health problems</li> <li>Prevention of future health issues, including lifestyle advice</li> </ul>	<ul style="list-style-type: none"> <li>Patient is concerned about his kidney condition and diabetes control.</li> <li>Treatment objectives:               <ul style="list-style-type: none"> <li>Stabilise CKD</li> <li>Improve diabetes control</li> </ul> </li> <li>Improve blood pressure</li> </ul>
<b>2. Need</b> Identify essential drug therapy	<b>Identify essential drugs (not to be stopped without specialist advice*)</b> <ul style="list-style-type: none"> <li>Drugs that have essential replacement functions</li> <li>Drugs to prevent rapid symptomatic decline</li> </ul> <i>*from healthcare professional with specialist interest</i>	<ul style="list-style-type: none"> <li>Although not considered essential, there is a valid indication for all medication</li> </ul>
<b>3.</b> Does the patient take unnecessary drug therapy?	<b>Identify and review the continued need for drugs</b> <ul style="list-style-type: none"> <li>what is medication for?</li> <li>with temporary indications</li> <li>with higher than usual maintenance doses</li> <li>with limited benefit/evidence for use</li> <li>with limited benefit in the person under review (see Drug efficacy &amp; applicability (NNT) table)</li> </ul>	<ul style="list-style-type: none"> <li>None considered unnecessary</li> </ul>
<b>4. Effectiveness</b> Are therapeutic objectives being achieved?	<b>Identify the need for adding/intensifying drug therapy to achieve therapeutic objectives</b> <ul style="list-style-type: none"> <li>to achieve symptom control</li> <li>to achieve biochemical/clinical targets</li> <li>to prevent disease progression/exacerbation</li> <li>is there a more appropriate medication to achieve goals</li> </ul>	<ul style="list-style-type: none"> <li>To achieve symptom control               <ul style="list-style-type: none"> <li>CKD management: initiate SGLT-2i* to delay the progression of CKD</li> </ul> </li> <li>BP control: BP slightly above target               <ul style="list-style-type: none"> <li>Already on ramipril 10mg daily</li> <li>Check BP after initiation of SGLT-2i</li> </ul> </li> <li>HbA1c is above target and BMI is 32               <ul style="list-style-type: none"> <li>Check adherence</li> <li>Add in 3rd line hypoglycaemic agent (GLP-1RA). NB: SGLT-2i don't exert their glucose-lowering effects in eGFR&lt;45ml/min</li> </ul> </li> </ul>
<b>5. Safety</b> Does the individual have or is at risk of ADR/ side effects?  Does the patient know what to do if they're ill?	<b>Identify individual safety risks by checking for</b> <ul style="list-style-type: none"> <li>appropriate individual targets?</li> <li>drug-disease interactions</li> <li>drug-drug interactions (see ADR table)</li> <li>monitoring mechanisms for high-risk drugs</li> <li>risk of accidental overdosing</li> </ul> <b>Identify adverse drug effects by checking for</b> <ul style="list-style-type: none"> <li>specific symptoms/laboratory markers</li> <li>cumulative adverse drug effects (see ADR table)</li> <li>drugs used to treat side effects caused by other drugs</li> </ul> <b>Medication Sick Day guidance</b>	<ul style="list-style-type: none"> <li>SGLT-2i:               <ul style="list-style-type: none"> <li>DKA symptoms*; check awareness</li> <li>Raise awareness of thrush/UTI</li> </ul> </li> <li>GLP-1RA: raise awareness of GI ADRs and symptoms of pancreatitis</li> <li>To monitor blood glucose and if below &lt;4.0mmol/l, to stop gliclazide</li> </ul> <b>Sick Day guidance</b> <ul style="list-style-type: none"> <li>Risk of acute kidney injury (ramipril, metformin and CKD)</li> </ul>
<b>6. Sustainability</b> Is drug therapy cost-effective and environmentally sustainable?	<b>Identify unnecessarily costly drug therapy by</b> <ul style="list-style-type: none"> <li>Considering more cost-effective alternatives, safety, convenience</li> </ul> <b>Consider the environmental impact of</b> <ul style="list-style-type: none"> <li>Inhaler use</li> <li>Single use plastics</li> <li>Medicines waste</li> <li>Water pollution</li> </ul>	<ul style="list-style-type: none"> <li>None - prescribing in keeping with current formulary recommendations</li> <li>Patient advised to dispose of medicines through community pharmacy</li> <li>Advised patient to only order what is needed, do not stockpile medicines</li> </ul>
<b>7. Patient centeredness</b> Is the patient willing and able to take drug therapy as intended?	<b>Does the patient understand the outcomes of the review?</b> <ul style="list-style-type: none"> <li>Consider Teach back</li> </ul> <b>Ensure drug therapy changes are tailored to individual preferences. Consider</b> <ul style="list-style-type: none"> <li>Is the medication in a form the patient can take?</li> <li>Is the dosing schedule convenient?</li> <li>What assistance is needed?</li> <li>Are they able to take medicines as intended?</li> </ul> <b>Agree and communicate plan</b> <ul style="list-style-type: none"> <li>Discuss and agree with the individual/carer/welfare proxy therapeutic objectives and treatment priorities</li> <li>Include lifestyle and holistic management goals</li> <li>Inform relevant health and social care providers of changes in treatments across the transitions of care</li> </ul>	<ul style="list-style-type: none"> <li>Delay progression of CKD:               <ul style="list-style-type: none"> <li>Discuss that the addition of an SGLT-2i* will delay CKD progression and may have beneficial effect on BP control</li> <li>eGFR to be monitored at least 6 monthly</li> <li>Follow up patient 1-2 weeks post SGLT-2i initiation to check adherence, ADRs and BP</li> </ul> </li> <li>BP control:               <ul style="list-style-type: none"> <li>Discuss if BP still above target after initiation of SGLT-2i, then additional antihypertensive treatment will be added</li> </ul> </li> <li>Diabetes management:               <ul style="list-style-type: none"> <li>Once patient is stabilised on the SGLT-2i (1-2 weeks post initiation), initiate GLP-1RA</li> <li>Check patient understands how to inject GLP-1RA pen correctly and dosing frequency</li> <li>Follow up patient post initiation at week 1 months 3 and 6. And then every 3-6 months thereafter</li> </ul> </li> <li>Non medication intervention: refer patient to a dietician. With patient's permission, wife is to attend also</li> </ul>
<b>Key concepts in this case</b> Prescribing for people with co-morbidities: CKD <ul style="list-style-type: none"> <li>management of CKD in type 2 diabetes</li> <li>tight blood pressure control</li> <li>tight glycaemic control</li> </ul>		