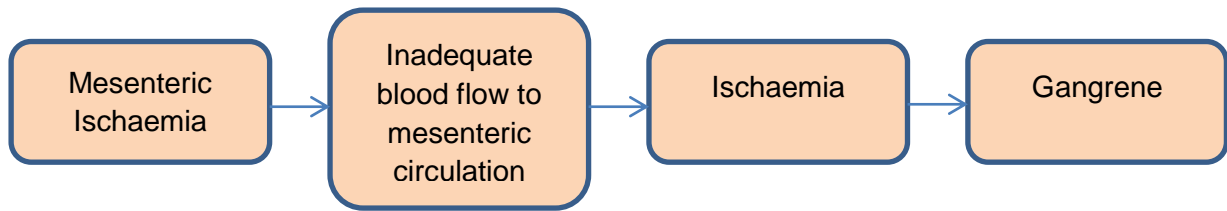


# Mesenteric Ischaemia



| Causes  |  |
|---|--|
| Arterial  | Venous   |
| <ul style="list-style-type: none"> <li>• <b>Embolism</b> – MI, Mitral Stenosis, AF, endocarditis, Prosthetic grafts, Myxoma</li> <li>• <b>Thrombosis</b> – Plaque Rupture</li> <li>• <b>Occlusive</b> – Atherosclerosis, Vasculitis, AI disease</li> <li>• <b>Non-Occlusive</b> – Septic Shock, Hypovolaemia, Vasopressors, Pancreatitis</li> </ul> | <ul style="list-style-type: none"> <li>• Intra-abdominal infection + portal pyemia</li> <li>• Hypercoagulable States</li> <li>• Portal hypertension</li> <li>• Direct Trauma from Surgery</li> <li>• Band adhesions</li> </ul> |

| History   |   |
|---|---|
| Arterial Embolic  | Arterial Occlusive  |
| <ul style="list-style-type: none"> <li>• Abrupt, painful abdomen</li> <li>• Vomiting</li> <li>• Diarrhoea</li> <li>• Recent – AF, MI, Valvular Heart Disease</li> </ul> | <ul style="list-style-type: none"> <li>• Assoc. with eating</li> <li>• Pain out of proportion to physical findings</li> <li>• Unresponsive to opioids</li> <li>• Nausea and vomiting</li> <li>• Distension</li> <li>• GI haemorrhage</li> </ul> |
| Arterial Thrombosis   | Non-Occlusive   |
| <ul style="list-style-type: none"> <li>• Often have history of mesenteric angina</li> <li>• Assoc. with CCF, MI</li> </ul>  | <ul style="list-style-type: none"> <li>• Associated with Multi-Organ Dysfunction</li> </ul>   |
| Venous Thrombosis   |   |
| <ul style="list-style-type: none"> <li>• Symptoms may be present weeks</li> <li>• History of hypercoagulability</li> </ul>  |   |

| Examination   |   |
|---|---|
| <ul style="list-style-type: none"> <li>• Tenderness</li> <li>• Peritonism</li> <li>• Palpable Mass</li> </ul> | <ul style="list-style-type: none"> <li>• Bowel Sounds Absent → Hyperactive</li> <li>• Septicaemia</li> <li>• AF</li> <li>• Heart Murmurs</li> </ul> |

| Investigations  |   |
|---|---|
| <ul style="list-style-type: none"> <li>• Bloods – unreliable</li> <li>• ABG – Metabolic Acidosis</li> <li>• Lactate – Markedly Elevated</li> <li>• X-ray – Thumb Printing, Portal Vein Gas</li> </ul> | <ul style="list-style-type: none"> <li>• CT Angiogram               <ul style="list-style-type: none"> <li>◦ 96% Sensitive 94% Specific</li> </ul> </li> <li>• MRI/MRA</li> </ul> |

| Management   |  |
|--|--|
| <ul style="list-style-type: none"> <li>• IV fluids</li> <li>• Nil by Mouth</li> <li>• Opioid Analgesia</li> <li>• Anti-emetics</li> <li>• Antibiotics</li> </ul> | <ul style="list-style-type: none"> <li>• Surgery</li> <li>• Radiologically guided thrombolytics</li> <li>• Angioplasty</li> <li>• Heparin for venous thrombosis</li> </ul> |