Solutions

2.1

- Probability and severity – common heads the list; killers stay on it ✓.

2.2

- $9 \times 1/9 \to 9{:}9 = 1{:}1 \to$ probability 50 % ✓.

2.3

- Ask "what else?" – generate the alternative before settling ✓.

3.1

- Rank: failure (highest prior), infection (common), clot (must-not-miss), anaemia ✓.
- Orthopnoea raises failure ✓.
- Clear X-ray with desaturation raises the clot ✓.
- Clinging despite disproof = anchoring; antidote: require an alternative ✓.

3.2

- One test updates odds; alone it rarely rewrites – the PPV arithmetic explains why ✓.
- Premature closure (antidote: what else?); confirmation (seek the disproof) ✓.
- Working diagnosis: current best, held until disconfirmed; residue safely followed ✓.