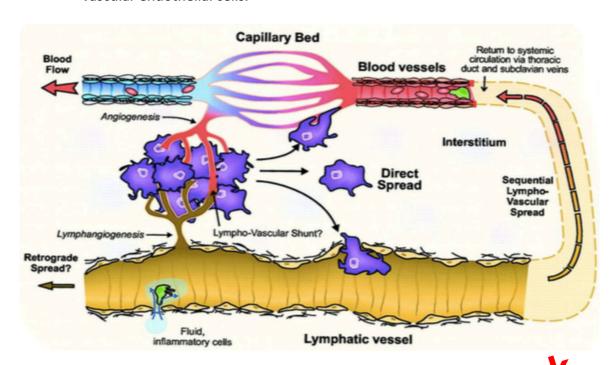
Lymphatic endothelial cells respond to different angiogenic factors than blood vascular endothelial cells.



12. **Overall:** both the lymphatics and blood vessel vasculature as bound to aid metastasise.

NoteS

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Step 1: tumours release soluble factors that activate endothelial cells to start sprouting.

- 1. Pro-angiogenic factors include VEGF (A-E), which is the first to be characterised and most talked about in cancer.
- 2. As the cancer progresses, it acquires alternate ways to promote angiogenesis, such as VEGF-D, growth factors, TGF-beta, which all help to facilitate angiogenesis.
- 3. The tumours become better at inducing and maintaining angiogenesis as the it progresses.
- 4. These factors bind to receptors on endothelial cells to activate them, and in turn, the endothelial cells upregulate the expression of the receptors.
- 5. Platelet derived growth factor (PDGF) is made by endothelial cells and is a key player in pericyte recruitment. This is the final step in angiogenesis because these cells function to stabilise the blood vasculature.