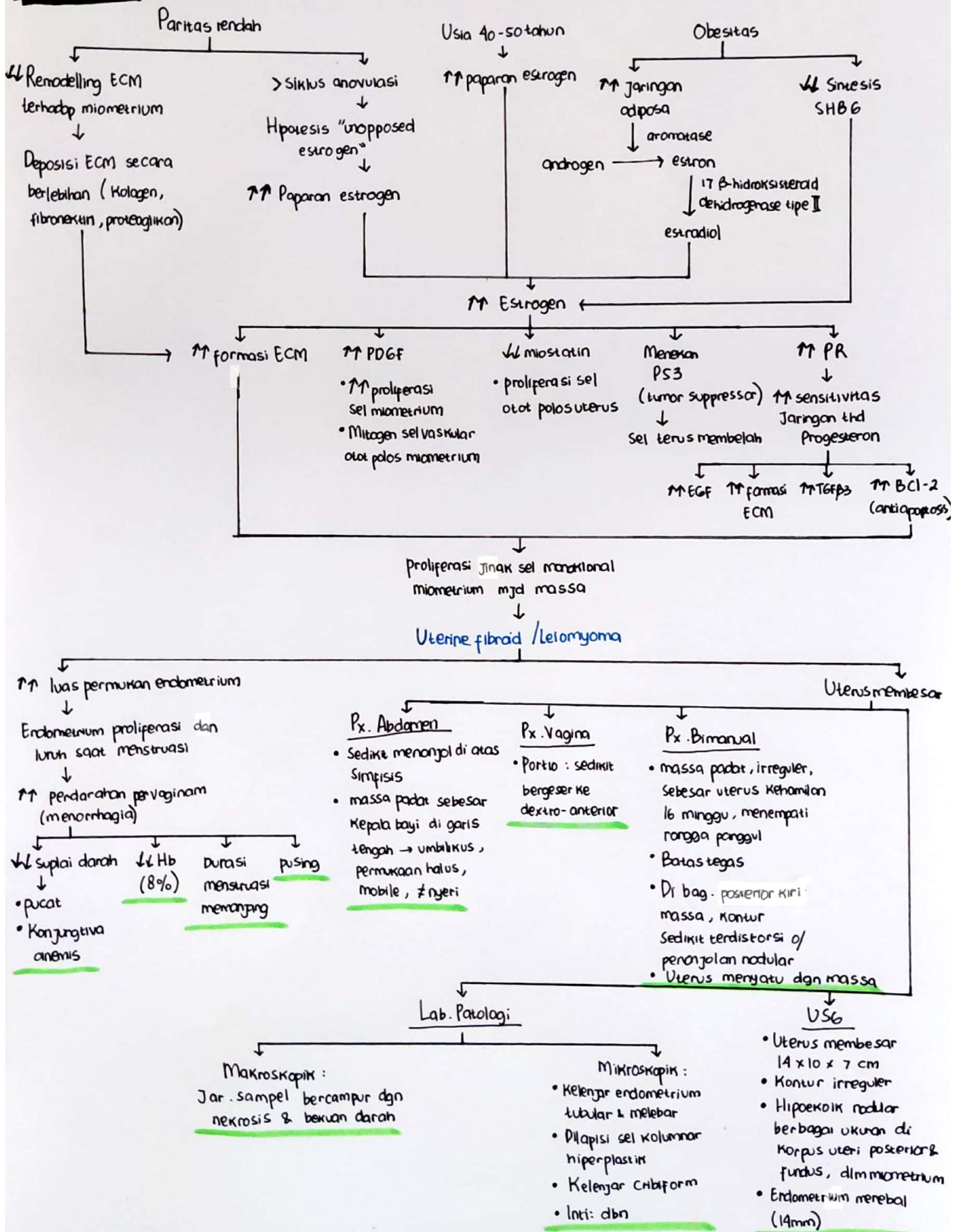


Patofisiologi

Case 7



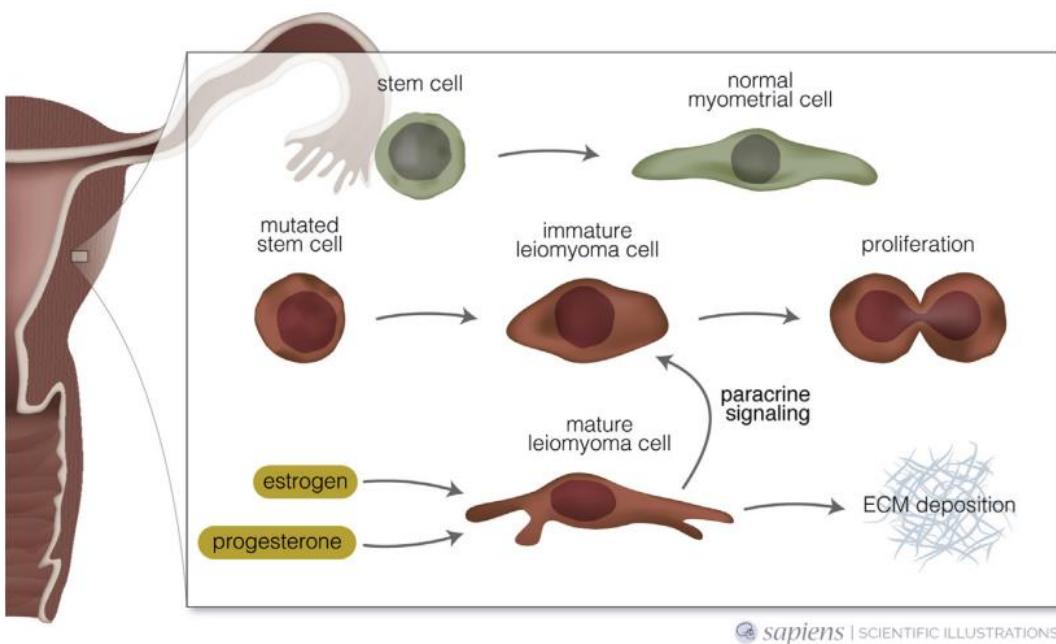


Fig. 1. Diagrammatic representation of the roles of estrogen and progesterone in the pathogenesis of uterine fibroids. ECM: extracellular matrix.

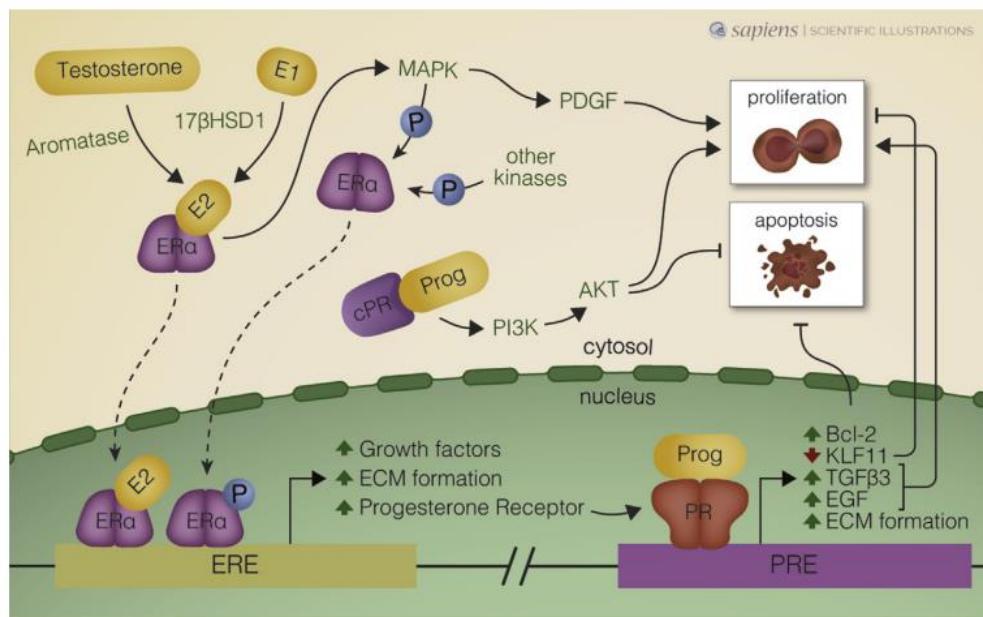


Fig. 2. Schematic illustration of autocrine and paracrine mechanisms activated by estrogen receptor alpha (ER α) and progesterone receptors (PRs) in uterine leiomyoma cells. Estradiol (E_2) arrives with blood supply (endocrine) but is also synthesized within the cell (autocrine) from precursors such as testosterone and estrone (E_1). ER α may be phosphorylated (P) by kinases and interact with estrogen response element (ERE) in the nucleus. 17 β HSD1: 17 β -hydroxysteroid dehydrogenase type 1; MAPK: mitogen-activated protein kinase; PDGF: platelet-derived growth factor; PI3K: phosphatidylinositol-3-kinase; AKT: serine/threonine protein kinase B; Bcl-2: B-cell leukemia/lymphoma-2 protein; KLF11: Kruppel-like transcription factor 11; TGF- β 3: transforming growth factor β 3; EGF: epidermal growth factor; ECM: extracellular matrix; Prog: progesterone; cPR: progesterone receptor in the cytosol; and PRE: progesterone-responsive element.