REGULATION OF INSULIN RELEASE! The B cell has insulin receptors present in it, the Insulini can also regulate its own release through an autovine regulatory mechanism. Glucose exerts a principle stimulus for insulin release from the pancreatic B cells respectively. Glucose is transported to the B-cell surface by a specific gineose transporter (GUT-2) on the cell surface. The glucokinase phosphosylates glucose and leads to generation of acetyl COA and ATP by glycolysis and kerbs ye This leads to inhibition and closure of ATP-sensive kt channels reducing the efflux of kt. This results in membroams depolant -ation, opening of voltage dependent ca2+ channel and increased Ca2+ of infune This increase of extracellulars Ca2+ and mobilization of Cart from intracellular store leads to the fusion of insulti-contr ming servetory granules with the plasma membrame and rela Preview from Sum ATPA ADP DEPOLARIZATIO NOULIN SECRETION