



POSTERIOR PITUITARY GLAND

(low ADH)



polyurea, polydipsia, dehydration

inability of kidneys to reabsorb fluids

head trauma

genetic: mutation in arginine

Diabetes Insipidus (DI)

(high ADH)



blood volume remains normal

paraneoplastic syndrome in lung

oligourea, hyponatremia,

cerebral edema, brain dysfunction

SIADH

CRANIOPHARYNGIOMA

Rathke pouch

hypopituitarism

Bimodal age

squamous cells

no keratin

no cyst

no calcification

Papillary CPH

adults

keratin

cyst

calcification

Adamantinoma is a rare bone cancer

“machine oil”

children

DIABETIC KETOACIDOSIS

fruity odor, loss of consciousness, coma
metabolic acidosis
osmotic diuresis and dehydration

Severe hyperglycemia

May in 2 DM but severe

type-1 DM

ZOLLINGER-ELLISON SYNDROME

MEN-1 syndrome

peptic ulcer, jejunal ulcer

50% malignant

Maturity-onset diabetes of the young (MODY)

MUTATION glucokinase (GCK) genes

mutation is insulin-receptor synthesis

Resemble DM-2

PANCREAS

hypoglycemic episodes
single tumor, benign
giant islets, contain amyloid
newborns of diabetic mothers

INSULINOMA

DM-2 No ketons
dehydration coma
**HYPEROSMOLAR
HYPERGLYCEMIC**

deficiency in insulin

children and adolescents

HLA-DR3, DR-4, DQ8

Autoimmune destruction of pancreatic β -cells

pancreatitis, pancreatic carcinoma

TYPE-1 DIABETES

resistance to insulin

obese, adults, insidious onset

Genetic factors : 90% twins, 10x relatives

Inadequate response by β -cells

Amyloid deposition, Hyperglycemia, Excess free fatty acids, Genetic
pregnant, steroids, β -agonists, phenytoin, thiazide **Down, Turner syndrome**

TYPE-2 DIABETES



