New trends in diagnosis and management of gastroenteropancreatic neuroendocrinal tumors (GEP-NETs)

An Essay

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بسم الله الرحمن الرحيم

قالوا

سبحانك لا علم لنا
إلا ما علمتنا إنك أنت
العليم الحكيم

صدق الله العظيم

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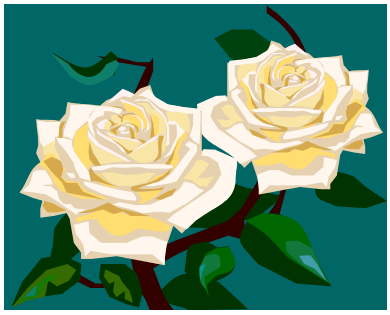

DR.Islam Mohammad Hegazy

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List of abbreviations

5FU	5flurouracil
5-HT	5-hydroxytryptophan,
5-HIAA	5-hydroxyindoleacetic acid
AADC	Aromatic acid decarboxylase
ACTH	Adrenocorticothropine releasing hormone
AJCC	American Joint Cancer Committee-
APC	Adenomatous polyposis coli
BAO	Basal acid out- put
bFGF	Basic fibroblast growth factor
bHLH	Basic helix-loop-helix
CAG	Chronic atrophic gastritis
CCK	Cholecystokinin
CgA	Chromogranin A
CgB	Chromogranin B
CHD	Carcinoid heart disease
CK	Cytokeratin
CNC	Carney complex
CRH	Corticotrophic releasing hormone
CT	Computed tomography
DAT	Dopamine transporter
DEB-TACE	Drug-eluting beads transarterial chemoembolization
DMSA	Dimercaptosuccinic acid
DNES	Diffuse neuroendocrine system
DOPA	Di-hydroxy-phenylalanine
DSA	Digital subtraction angiography
DTPA	Diethylene triamine-pentaacetic acid
EC	Enterochromaffin cells
ECL	Enterochromaffin like cells
EGFR	Epidermal growth factor receptor
ENETS	Europian NeuroEndocrine Tumors Society
EUS	Endoscopic ultrasonography
FDG	Fluor-2-deoxy-d-glucose
FNA	Fine-needle aspiration
FSG	Fasting serum gastrin
GEP-NETs	Gastroentero-pancreatic neuroendocrine tumors
GH	Growth hormone
GIP	Gastric inhibitory peptide
GLP	Glucagon-like peptide
GRF	Growth hormone releasing factor
GRP	Gastrin-releasing peptide

HPF	High power field
HPT	Hyperparathyroidism
IBS	Inflammatory bowel syndrome
ICC	Immunocytochemistry
IFN	Interferon
IGF1	Insulin-like growth factor 1
IHC	Immunohistochemistry
IOUS	Intraoperative ultrasound
LAR	Long-acting repeatable
LAT	Large amino acid transporter system
LDCV	Large dense-core vesicles
MANEC	Mixed adenoneuroendocrine carcinomas
MCT	Medullary carcinoma of the thyroid
MDCT	Multidetector CT
MDR-1	Multi-drug resistance gene 1
MEEC	Mixed exocrine–endocrine carcinoma
MEN I	Multiple endocrine neoplasia type I
MIBG	Metaiodobenzylguanidine
MRI	Magnetic resonance imaging
mTOR	Mammalian target of rapamycin
NECs	Neuroendocrine carcinomas
NENs	Neuroendocrine neoplasia
NETs	Neuroendocrine tumors
NF-I	Neurofibromatosis type I
NF-PNETs	Nonfunctional Pancreatic NETs
NGN	Neurogenin
NKA	Neurokinin A
NSE	Neuron Specific Enolase
NSF	N-ethylmaleimide-sensitive fusion protein
PACAP	Pituitary adenylate cyclase activating peptide
PAX	Paired box gene
PDECs	Poorly differentiated endocrine carcinomas
PDGF	Platelet-derived growth factor
PET	Positron emission tomography
PP	Pancreatic polypeptide
PPIs	Proton pump inhibitors
PRRT	Peptide receptor radionuclide therapy
PTEN	Phosphatase and tensin homolog
PTH	Parathyroid hormone
PTH-rP	Parathyroid hormone related peptide
PUD	Peptic ulcer disease
PVA	Polyvinyl alcohol

RFA	Radiofrequency ablation
SLMVs	Synaptic-like microvesicles
SNAP-25	Synaptosome-associated protein
SNARE	Synaptosomal-associated protein receptor
SpDP	Spleen-preserving distal pancreatectomy
SPECT	Single photon emission computed tomography
SRS	Somatostatin receptor scintigraphy
SSTRs	Somatostatin receptors
SSV	Small synaptic-like vesicles
STZ	Streptozotocin
TACE	Transarterial chemoembolization
TAE	Transarterial bland embolization
TCF	T cell factor
TK	Tyrosine kinase
TKIs	Tyrosine kinase inhibitors
TLL	Tumour-like lesions
TSC	Tuberous sclerosis
t-SNAREs	Target membranes synaptosomal-associated protein receptor
u5-HIAA	Urinary 5-hydroxyindoleacetic acid
UGI	Upper gastrointestinal
UICC	Union Internationale Contre le Cancer
VAMP	Vesicle-associated membrane protein
VCE	Videocapsule endoscopy
VEGF	Vascular endothelial growth factor
VHL	von Hippel-Lindau syndrome
VIP	Vasoactive intestinal polypeptide
VMAT	Vesicular monoamine transporter
v-SNAREs	Vesicle membrane synaptosomal-associated protein receptor
WCE	Wireless capsule endoscopy
WDET	Well-differentiated endocrine tumour
WDHA	Watery Diarrhea, Hypokalemia, and Achlorhydria
WDNEC	Well differentiated neuroendocrine carcinoma
ZES	Zollinger-Ellison Syndrome

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Aim of the work