Questionnaire for WES solo and WGS solo



Test ordered ☐ Whole Exome Sequencing (WES)-Solo ☐ Whole Genome Sequencing (WGS)-Solo						
	nt Information Patient ancestry					
	☐ Arabs	☐ Ashkenazi Jewish] [
	☐ Asian	☐ Black/African-American				
	☐ French Canadian	☐ Hispanic ☐ Native American		Patient sticker		
	☐ Mediterranean			i defente ottolici		
	☐ Pacific Islander	☐ Sephardic Jewish				
	☐ White/Caucasian	☐ Others (please specify)	L			
 2. Patient's primary indication(s) Please specify: 3. Age of onset: 4. Are there any suspected genes related to the patient's condition? 						
5.	5. Patient has a current or history of a hematological malignancy ☐ No ☐ Yes, please specify: ○ Active/current ○ History					
6.	 (***If active, we are unable to accept the specimen, please do not order) 6. Patient had a blood transfusion less than four weeks prior to specimen collection (blood and saliva) □ No □ Yes (please specify date of last transfusion)					
7. Patient who have had an allogenic bone marrow or stem cell transplant \[\sum_{\text{No.}} \sum_{\text{Ves.}} \text{ (*** If ves. we are unable to accept the specimen, please do not order)} \]						

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8. Patient's sign(s) or clinical symptom(s)

Please check all that apply to the patient (current or previous history of) and specify in the space provided. Accurate clinical information is critical for exome/genome analysis and interpretation. Clinical information indicated below follow HPO nomenclature.

Pre	/Perinatal History	Crar	niofacial/Dysmorphism
	Cystic hygroma		Abnormal facial shape (Dysmorphic features) (Specify):
	Congenital diaphragmatic hernia		
	Encephalocele		Brachycephaly
	Growth delay		Cleft lip
	Increased nuchal translucency		Coarse facial features
	Intrauterine Growth Retardation		Craniosynostosis
	Nonimmune hydrops fetalis		Macrocephaly
	Oligohydramnios		Microcephaly
	Omphalocele		Short neck
	Polyhydramnios		Synophrys
	Prolonged neonatal jaundice		
		Dev	elopmental/Behavioral Findings
Car	diac Findings		Absent speech
	Abnormal heart morphology		Aggressive behavior
	Amyloidosis		Anxiety
	aortic root aneurysm		Autistic Behavior
	Arrhythmia		Cognitive impairment
	Atrial septal defect		Delayed speech & language development
	Bicuspid aortic valve		Developmental regression
	Bradycardia		Dysarthria
	Coarctation of aorta		Gait disturbance
	Dilated cardiomyopathy		Global developmental delay
	Heterotaxy		Hyperactivity
	Hypertension		Incoordination
	Hypertrophic cardiomyopathy		Intellectual disability
	Mitral valve prolapse		Specific learning disability
	Noncompaction cardiomyopathy		Memory impairment
	Patent ductus arteriosis		Sleep disturbance
	Patent foramen ovale		Stereotypy
	Prolonged QTc interval		
	Sudden death		
	Tetralogy of Fallot		
	Ventricular septal defect		
	Ventricular tachycardia		

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Endo	crine Findings	Genit	ourinary Findings
	Delayed puberty		Ambiguous genitalia
	Diabetes Insipidus		Cryptorchidism
	Diabetes Mellitus		Cystic renal dysplasia
	Hyperthyroidism		Horseshoe kidney
	Hypophosphatemia		Hydronephrosis
	Hypothyroidism		Hypospadias
	Maturity-onset diabetes of the young		Inguinal hernia
	Rickets		Micropenis
_	THOREES	_	······································
Eye [Defects/ Vision	Heari	ng Impairment
	Abnormality of Vision		Conductive hearing impairment
	Anophthalmia		Sensorineural hearing impairment
	Cataracts		
	Coloboma	Hema	atologic or Immunologic Findings
	Corneal opacity		Allergic rhinitis
	Ectopia lentis		Anemia
	External ophthalmoplegia		Immunodeficiency
	Microphthalmia		Neutropenia
	Myopia		Pancytopenia
	Nystagmus		Recurrent infections
	Optic atrophy		Thrombocytopenia
	Optic neuropathy	_	
	Ptosis	Meta	bolic Findings
	Retinal detachment		Abnormal activity of mitochondrial respiratory
	Retinitis pigmentosa inversa		Abnormality of mitochondrial metabolism
	Strabismus		Elevated CPK
	Strabismus		Elevated hepatic transaminase
Gasti	rointestinal Findings		Hyperammonemia
	Constipation		• •
_	•		Hyperglycemia
	Diarrhea Diadonal stanceis/streeis		Hypoammonemia
	Duodenal stenosis/atresia		Hypoglycemia
	Exocrine pancreatic insufficiency		Increased serum pyruvate
	Failure to thrive		Lactic acidosis
	Feeding difficulties		
	Gastroesophageal reflux		uloskeletal Findings
	Hepatomegaly		Abnormal form of the vertebral bodies
	Inflammatory bowel disease		Abnormality of the ribs
	Intrahepatic biliary atresia		Arachnodactyly
	Laryngomalacia		Arthralgia
	Nausea		Arthrogryposis syndrome
	Pancreatitis		Bruising susceptibility
	Pyloric stenosis		Clinodactyly
	Splenomegaly		Decreased muscle mass
	Tracheoesophageal fistula		Ectrodactyly
	Vomiting		Exercise intolerance
			Fatigue

Mus	culoskeletal Findings (cont.)	Res	piratory Findings
	Hemihypertrophy		Asthma
	Hypertonia		Bronchiectasis
	Hypotonia		Hyperventilation
	Joint hypermobility		Hypoventilation
	Muscle weakness		Pneumothorax
	Myalgia		Pulmonary fibrosis
	Myopathic facies		Respiratory insufficiency
	Myopathy		
	Osteoarthritis	Stru	ictural Brain Abnormalities
	Osteopenia		Abnormal myelination
	Pain		Abnormality of brain morphology
	Pectus carinatum		Aplasia/hypoplasia of cerebellum
	Pectus excavatum		Arnold Chiari malformation
	Polydactyly		Cerebellar atrophy
	Recurrent fractures		Heterotopia (Periventricular nodular heterotopia)
	Rhabdomyolysis		Holoprosencephaly
	Scoliosis		Hydrocephalus
	Short stature		Leukodystrophy
	Skeletal dysplasia		Lissencephaly
	Syndactyly		Pachygyria
	Tall stature		Polymicrogyria
			Ventriculomegaly
			0 /
Neu	rological Findings		
Neu □	rological Findings Abnormality of central nervous system		
	-	Skin	n/Hair Findings
	Abnormality of central nervous system	Skin	n/Hair Findings Abnormal blistering of the skin
	Abnormality of central nervous system electrophysiology		•
	Abnormality of central nervous system electrophysiology Ataxia		Abnormal blistering of the skin
	Abnormality of central nervous system electrophysiology Ataxia Cerebral palsy		Abnormal blistering of the skin Abnormality of nail color
	Abnormality of central nervous system electrophysiology Ataxia Cerebral palsy Chorea		Abnormal blistering of the skin Abnormality of nail color Alopecia
	Abnormality of central nervous system electrophysiology Ataxia Cerebral palsy Chorea Dementia		Abnormal blistering of the skin Abnormality of nail color Alopecia Anhidrosis
	Abnormality of central nervous system electrophysiology Ataxia Cerebral palsy Chorea Dementia Dysarthria		Abnormal blistering of the skin Abnormality of nail color Alopecia Anhidrosis Café-Au-Lait Macules
	Abnormality of central nervous system electrophysiology Ataxia Cerebral palsy Chorea Dementia Dysarthria Dyskinesia		Abnormal blistering of the skin Abnormality of nail color Alopecia Anhidrosis Café-Au-Lait Macules Coarse hair
	Abnormality of central nervous system electrophysiology Ataxia Cerebral palsy Chorea Dementia Dysarthria Dyskinesia Dysphasia		Abnormal blistering of the skin Abnormality of nail color Alopecia Anhidrosis Café-Au-Lait Macules Coarse hair Cutis Laxa
	Abnormality of central nervous system electrophysiology Ataxia Cerebral palsy Chorea Dementia Dysarthria Dyskinesia Dysphasia Dystonia		Abnormal blistering of the skin Abnormality of nail color Alopecia Anhidrosis Café-Au-Lait Macules Coarse hair Cutis Laxa Eczema
	Abnormality of central nervous system electrophysiology Ataxia Cerebral palsy Chorea Dementia Dysarthria Dyskinesia Dysphasia Dystonia Encephalopathy		Abnormal blistering of the skin Abnormality of nail color Alopecia Anhidrosis Café-Au-Lait Macules Coarse hair Cutis Laxa Eczema Hemangioma
	Abnormality of central nervous system electrophysiology Ataxia Cerebral palsy Chorea Dementia Dysarthria Dyskinesia Dysphasia Dystonia Encephalopathy Headaches		Abnormal blistering of the skin Abnormality of nail color Alopecia Anhidrosis Café-Au-Lait Macules Coarse hair Cutis Laxa Eczema Hemangioma Hyperextensible skin
	Abnormality of central nervous system electrophysiology Ataxia Cerebral palsy Chorea Dementia Dysarthria Dyskinesia Dysphasia Dystonia Encephalopathy Headaches Hemiplegia		Abnormal blistering of the skin Abnormality of nail color Alopecia Anhidrosis Café-Au-Lait Macules Coarse hair Cutis Laxa Eczema Hemangioma Hyperextensible skin Hyperpigmentation of the skin
	Abnormality of central nervous system electrophysiology Ataxia Cerebral palsy Chorea Dementia Dysarthria Dyskinesia Dysphasia Dystonia Encephalopathy Headaches Hemiplegia Infantile Spasms		Abnormal blistering of the skin Abnormality of nail color Alopecia Anhidrosis Café-Au-Lait Macules Coarse hair Cutis Laxa Eczema Hemangioma Hyperextensible skin Hyperpigmentation of the skin Hypohidrosis
	Abnormality of central nervous system electrophysiology Ataxia Cerebral palsy Chorea Dementia Dysarthria Dyskinesia Dysphasia Dystonia Encephalopathy Headaches Hemiplegia Infantile Spasms Migraines		Abnormal blistering of the skin Abnormality of nail color Alopecia Anhidrosis Café-Au-Lait Macules Coarse hair Cutis Laxa Eczema Hemangioma Hyperextensible skin Hyperpigmentation of the skin Hypopigmentation of the skin
	Abnormality of central nervous system electrophysiology Ataxia Cerebral palsy Chorea Dementia Dysarthria Dysarthria Dyskinesia Dysphasia Dystonia Encephalopathy Headaches Hemiplegia Infantile Spasms Migraines Myoclonus Parkinsonism		Abnormal blistering of the skin Abnormality of nail color Alopecia Anhidrosis Café-Au-Lait Macules Coarse hair Cutis Laxa Eczema Hemangioma Hyperextensible skin Hyperpigmentation of the skin Hypopidrosis Hypopigmentation of the skin Ichthyosis
	Abnormality of central nervous system electrophysiology Ataxia Cerebral palsy Chorea Dementia Dysarthria Dyskinesia Dysphasia Dystonia Encephalopathy Headaches Hemiplegia Infantile Spasms Migraines Myoclonus		Abnormal blistering of the skin Abnormality of nail color Alopecia Anhidrosis Café-Au-Lait Macules Coarse hair Cutis Laxa Eczema Hemangioma Hyperextensible skin Hyperpigmentation of the skin Hypohidrosis Hypopigmentation of the skin Ichthyosis Skin rash Sparse hair
	Abnormality of central nervous system electrophysiology Ataxia Cerebral palsy Chorea Dementia Dysarthria Dysarthria Dyskinesia Dysphasia Dystonia Encephalopathy Headaches Hemiplegia Infantile Spasms Migraines Myoclonus Parkinsonism Peripheral neuropathy Seizure		Abnormal blistering of the skin Abnormality of nail color Alopecia Anhidrosis Café-Au-Lait Macules Coarse hair Cutis Laxa Eczema Hemangioma Hyperextensible skin Hyperpigmentation of the skin Hypopigmentation of the skin Ichthyosis Skin rash
	Abnormality of central nervous system electrophysiology Ataxia Cerebral palsy Chorea Dementia Dysarthria Dyskinesia Dysphasia Dystonia Encephalopathy Headaches Hemiplegia Infantile Spasms Migraines Myoclonus Parkinsonism Peripheral neuropathy	00000000000000000	Abnormal blistering of the skin Abnormality of nail color Alopecia Anhidrosis Café-Au-Lait Macules Coarse hair Cutis Laxa Eczema Hemangioma Hyperextensible skin Hyperpigmentation of the skin Hypohidrosis Hypopigmentation of the skin Ichthyosis Skin rash Sparse hair Telangiectasia Vascular skin abnormality
	Abnormality of central nervous system electrophysiology Ataxia Cerebral palsy Chorea Dementia Dysarthria Dysarthria Dyskinesia Dysphasia Dystonia Encephalopathy Headaches Hemiplegia Infantile Spasms Migraines Myoclonus Parkinsonism Peripheral neuropathy Seizure Sensory neuropathy Spasticity	000000000000000000	Abnormal blistering of the skin Abnormality of nail color Alopecia Anhidrosis Café-Au-Lait Macules Coarse hair Cutis Laxa Eczema Hemangioma Hyperextensible skin Hyperpigmentation of the skin Hypohidrosis Hypopigmentation of the skin Ichthyosis Skin rash Sparse hair Telangiectasia
	Abnormality of central nervous system electrophysiology Ataxia Cerebral palsy Chorea Dementia Dysarthria Dysarthria Dyskinesia Dysphasia Dystonia Encephalopathy Headaches Hemiplegia Infantile Spasms Migraines Myoclonus Parkinsonism Peripheral neuropathy Seizure Sensory neuropathy	000000000000000000	Abnormal blistering of the skin Abnormality of nail color Alopecia Anhidrosis Café-Au-Lait Macules Coarse hair Cutis Laxa Eczema Hemangioma Hyperextensible skin Hyperpigmentation of the skin Hypohidrosis Hypopigmentation of the skin Ichthyosis Skin rash Sparse hair Telangiectasia Vascular skin abnormality

9.	Patient is add ☐ No ☐ Yes	opted						
	пио п тез							
10.	O. Patient has previous genetic result related to the disease(s)/symptom(s)?							
	□ No □Yes (please specify mutation result)							
11.	1. Patient has previous WES or WGS result from Bumrungrad hospital							
	□ No □ Yes (please specify mutation result)							
12.	Patient's fam	ily has previous WE	S or WGS result from Bumrung	grad hospital				
	□ No □ Yes	(please specify muta	ition result)		•••••			
13.			ing 1 st and 2 nd degree relatives	s) related to the				
	disease(s)/sy	mptom(s)?						
	☐ Unknown ☐ No							
	**	e complete section 1	•					
	10.1		d					
		Mother LI Affected	d	☐ Unaffected	⊔ Unknown			
		Additional family r	member 1 relationship					
			☐ Affected					
			☐ Unaffected					
			☐ Unknown					
Additional family member 2 relationship								
			☐ Affected					
			☐ Unaffected					
			☐ Unknown					
Additional family member 3 relationship								
			☐ Affected					
			☐ Unaffected					
			□ Unknown					

14. Pedigree*		Pedigre	e Nomenclature
	Race/Ethnicity: Paternal Ancestry: Maternal Ancestry: Consanguinity: Yes No	0	Male Female
			Proband (consulted)
		□Ю	Mating
		뫊	Parents and children (in order of birth)
		6	Dizygotic twins
			Monozygotic twins
		4 3	Number of children
			Affected individuals
			Heterozygote's for autosomal recessive
		•	Carrier of sex linked recessive
		Ø	Deceased
		\triangle	Spontaneous abortion
		₽	Consanguious marriage
		\Diamond	Sex unknown
*Please complete at least three-generation pedigree of t	the proband's family for family history assessment		Adopted