Table 6: Limb-girdle muscular dystrophy: Autosomal Recessive

<u>Disease</u>	<u>Onset</u>	<u>HyperCKemia</u>	Progression	Skeletal Muscular Findings	Extramuscular findings
LGMD R1	Adolescence	High to very high	Moderate /	Proximal legs / Rectus abdominus /	usually no cognitive
calpain3- related			rapid	Peri-scapular; contractures	involvement
LGMD R2 dysferlin- related	Young adulthood	Very high	Slow	Asymmetric weakness; preference for biceps with spared deltoid;	Respiratory insufficiency with early onset;
LGMD R3 a- sarcoglycan- related	Early childhood	Very high	Rapid	Absent or reduced dysferlin staining on muscle biopsy Quadriceps involvement; calf hypertrophy	Cardiomyopathy
LGMD R4 b- sarcoglycan- related	Early childhood	Very high	Rapid	Tongue hypertrophy; Muscle hypertrophy	Cardiomyopathy
LGMD R5 y- sarcoglycan- related	Early childhood		Moderate / Rapid	Calf hypertrophy; lumbar hyperlordosis;	Respiratory insufficiency; Hearing loss; Cardiomyopathy
				scapular winging; tongue hypertrophy; sparing of quadriceps	later in disease course
		Very high			
LGMD R6 d- sarcoglycan- related	Early childhood	Very high	Rapid	Calf hypertrophy; cramps	Cardiomyopathy
LGMD R7 telethonin- related	Adolescence	High to very high	Slow	Calf hypertrophy or atrophy; normal or weak facial muscles; cramps	Cardiomyopathy
LGMD R8 TRIM32- related	Adulthood	High	Slow	Variable	
LGMD R9	Late child- to	Very high	Variable	Facial involvement	Respiratory failure
FKRP-related LGMD R10 titin-related	adulthood Young adulthood	High	Rapid	later in disease; can be asymmetric; exertional pain / cramps limbs; myoglobinuria Can be asymmetric; late onset distal weakness possible	-30%
LGMD R11 POMT1- related	Childhood	Very high	Slow	Ankle joint contractures – 50%	Some intellectual disability
LGMD R12 anoctamin5- related	Young to late adulthood	Normal to very high	Slow	Asymmetric; legs > arms; can have facial involvement; normal strength in distal arms;	
LGMD R13 Fukutin- related	Early childhood	Very high	Moderate	Legs > arms; mild to moderate facial involvement	Some intellectual disability
LGMD R14 POMT2- related	Early childhood	High	Slow	Calf hypertrophy; scapular winging; spinal lordosis	Some intellectual disability
LGMD R15 POMGnT1- related	Early to late childhood	Mildly elevated	Moderate	Congenital hypotonia	Myopia; glaucoma; juvenile cataracts; retinal dysplasia; intellectual disability
LGMD R16 a- dystroglycan related	Early childhood	Very High	Slow	Contractures common	Some intellectual disability; small head circumference
LGMD R17 plectin- related	Early childhood	Moderate to high	Moderate	Atrophic musculature and contractures late	
LGMD R18 TRAPPC11- related	Early to late childhood	High	Moderate	Legs>Arms	Movement disorder; Some intellectual disability; seizures
LGMD R19 GMPPB- related	Birth to adulthood	Moderate to high	Slow	Rhabdomyolysis and cramps	Cardiomyopathy- rare; Some intellectual disability
LGMD R20 ISPD-related	<1 year old	Very High	Moderate	Proximal weakness	Myopia; Oculomotor apraxia; cerebellar hypoplasia; Some intellectual disability