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North East Thames
Regional Genetics Service

Referral for: Ehlers Danlos hypermobility type / Hypermobility syndrome

Joint hypermobility is common in the general population and often familial. Only small proportion of people with hypermobility will require medical surveillance and genetic advice and they will usually have additional distinctive clinical features which are summarised in the enclosed information sheet.

Of those without additional features, some will have the relatively common 'Ehlers Danlos syndrome (EDS) hypermobility type'. These individuals may have associated chronic pain and autonomic dysfunction. Currently there is no diagnostic genetic testing available for this condition and there is no specific treatment or surveillance offered by the Clinical Genetics service. Management of symptoms should be through referral to relevant medical specialists. For that reason, in line with national guidance from the Clinical Genetics Society, we are unable to accept referrals for patients with 'EDS hypermobility type'.

To help you distinguish patients needing referral from those with 'EDS hypermobility type', and to guide you with management, we have produced the enclosed information sheet. The web link below may also be a useful resource for you to share with your patient.

<http://www.arthritisresearchuk.org/arthritis-information/conditions/joint-hypermobility.aspx#>

I hope this assists you in appropriately managing your patient's condition.

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Genetic referrals for Ehlers Danlos syndrome (EDS) hypermobility type

	Major criteria	Minor criteria
Hypermobility (type III)	Generalised joint hypermobility Mild skin involvement	Recurring joint dislocations Chronic joint pain Autonomic dysfunction Positive family history



Associated features of **classic, vascular, kyphoscoliotic, arthrochalasia, dermatospraxis EDS?**
(see next page for clinical features)

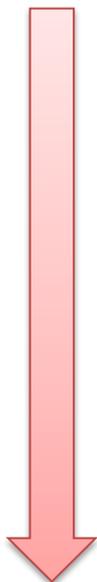
Associated features of **Marfan syndrome spectrum?**
(see next page for clinical features)

Yes

No

No

Yes



Clinical Genetics referral not indicated for EDS hypermobility type
Refer to appropriate medical specialist for management if required

Request echocardiography and ophthalmic assessment



Refer to Clinical Genetics for genetic advice
Refer to other specialists for evaluation of heart/eye/joint/skin findings

Ehlers Danlos syndromes (EDS)

	Major criteria	Minor criteria	IP
Classic (Type I/II)	Skin hyperextensibility Widened atrophic scars Joint hypermobility	Easy bruising Smooth and velvety skin Molluscoid pseudotumours Subcutaneous spheroids Muscular hypotonia Complications of joint hypermobility Surgical complications Positive family history	AD
Vascular (type IV)	Excessive bruising Thin, translucent skin Arterial/intestinal/uterine fragility or rupture Characteristic facial appearance	Acrogeria (premature ageing of hands and feet) Early-onset varicose veins Hypermobility of small joints Tendon and muscle rupture Arteriovenous or carotid-cavernous sinus fistula Pneumo (haemo)thorax Positive family history, sudden death in close relative(s)	AD
Kyphoscoliotic (type VI)	Severe muscular hypotonia at birth Generalised joint laxity Kyphoscoliosis at birth Scleral fragility and rupture of the globe	Tissue fragility, including atrophic scars Easy bruising Arterial rupture Marfanoid habitus Microcornea Osteopenia	AR
Arthrochalasia (type VII A and B)	Severe generalised joint hypermobility with recurrent subluxations Congenital bilateral hip dislocation	Skin hyperextensibility Tissue fragility, including atrophic scars Easy bruising Muscular hypotonia Kyphoscoliosis Mild osteopenia	AD
Dermatosparaxis (type VIIc)	Severe skin fragility Sagging, redundant skin Excessive bruising	Soft, doughy skin texture Premature rupture of membranes Large herniae	AR

Marfan syndrome spectrum disorders

Marfan syndrome	Aortic root enlargement Ectopia lentis	Systemic features : reduced upper segment / lower segment AND increased arm span/height ratios, arachnodactyly with positive thumb/wrist sign, pectus carinatum/excavatum/asymmetric, scoliosis or thoracolumbar kyphosis, hindfoot deformity, flat feet, pneumothorax, scoliosis or thoracolumbar kyphosis, skin striae, reduced elbow extension , myopia, mitral valve prolapse, dural ectasia	AD
Loeys-Dietz syndrome	Aortic root aneurysm with dissection Generalized arterial tortuosity and aneurysms	Systemic features: arachnodactyly, pectus carinatum/excavatum/asymmetric, scoliosis, talipes equinovarus, soft and velvety skin, translucent skin, easy bruising, dural ectasia, highly arched palate/cleft palate, malar hypoplasia, micrognathia, retrognathia, hypertelorism, broad or bifid uvula	AD

Legend: IP, Inheritance Pattern; AD , Autosomal Dominant; AR, Autosomal recessive