

Network Genetic Tumour Risk Syndromes (ERN GENTURIS)



ERN GENTURIS

European Reference Network on GENetic TUmour RIsk Syndromes

Care Pathway Non-NF2-related schwannomatosis version 1.3

Accepted: 26 September 2021

Non-NF2-related schwannomatosis (SCWN) CLINICAL PATHWAY

The **Patient Clinical Pathway** is "the whole care pathway from identification, diagnostics, and multidisciplinary case discussions to surveillance and preventive surgery", so indeed a pathway in time, focusing on **HOW**

Annual Review Recommended

At time of diagnosis, or possible diagnosis, ALL patients should be seen in a genetics department. Care can be co-ordinated through the schwannomatosis MDT team by an appropriate specialist Annual review should be undertaken by a recognised specialist.

Patients, other local specialists and GPs have telephone access to the NF Reference Centre for NF-related concerns.

<12 50% risk or child of sporadic schwannomatosis patient or tested positive for family pathogenic variant (PV) 12-15 50% risk Confirmation of diagnosis^ & assessment. Genetic testing & counselling for family. Discharge if negative for family PV or on linkage <16 affected already with schwannomas <16 affected already with schwannomas Confirmation of diagnosis^ & assessment. Genetic testing & counselling for family. Discharge if negative for family PV or on linkage <16 affected already with schwannomas Confirmation of diagnosis^ & assessment. Genetic counselling for family. At least annual with paediatric neurologist. 12-15 offspring of a Confirmation of Care can be coordinated through the schwannomatosis MDT team by an appropriate specialist. Sympto Care can be coordinated through the schwannomatosis MDT team by an appropriate specialist. Sympto Care can be coordinated through the schwannomatosis MDT team by an appropriate specialist. Sympto Care can be coordinated through the schwannomatosis MDT team by an appropriate specialist. Sympto Care can be coordinated through the schwannomatosis MDT team by an appropriate specialist. Sympto Care can be coordinated through the schwannomatosis MDT team by an appropriate specialist. Sympto Care can be coordinated through the schwannomatosis MDT team by an appropriate specialist. Sympto Care can be coordinated through the schwannomatosis MDT team by an appropriate specialist. Sympto Care can be coordinated through the schwannomatosis MDT team by an appropriate specialist. Sympto Care can be coordinated through the schwannomatosis MDT team by an appropriate specialist. Sympto Care can be coordinated through the schwannomatosis MDT team by an appropriate specialist. Sympto Care can be coordinated through the schwannomatosis MDT team by an appropriate specialist. Sympto Care can be coordinated through the schwannomator o	ead and spine equired unless emptomatic
sporadic schwannomatosis patient or tested positive for family pathogenic variant (PV) 12-15 50% risk Confirmation of diagnosis^ & assessment. Genetic testing & counselling for family. Discharge if negative for family PV or on linkage <16 affected already with schwannomas With schwannomas Care can be coordinated through the schwannomatosis MDT team by an appropriate specialist. Care can be coordinated through the schwannomatosis MDT team by an appropriate specialist. Care can be coordinated through the schwannomatosis MDT team by an appropriate specialist. Care can be coordinated through the schwannomatosis MDT team by an appropriate specialist. At least annual with paediatric neurologist. 12-15 offspring of a Care can be coordinated through Care can be coordinated through care of the schwannomatosis MDT team by an appropriate specialist. Sy At least annual with paediatric neurologist. Care can be coordinated through Care can be co	
diagnosis^ & assessment. Genetic testing & counselling for family. Discharge if negative for family PV or on linkage <16 affected already with schwannomas With schwannomas Confirmation of diagnosis^ & assessment. Genetic counselling for family. At least annual with paediatric neurologist. 12-15 offspring of a Confirmation of Care can be coordinated through the schwannomatosis MDT team by an appropriate specialist. Sy At least annual with paediatric neurologist. Care can be coordinated through 2-3 years	
with schwannomas diagnosis^ & the schwannomatosis MDT team by an appropriate specialist. sy At least annual with paediatric neurologist. 12-15 offspring of a Confirmation of Care can be coordinated through 2-3 years.	m check at SCWN review and e MRI and MRI 3- y if no tumours
7	onth MRI after osis and then 2-3 ly MRI* unless omptomatic
schwannomatosis diagnosis^ & the schwannomatosis MDT team tumo	early MRI* until
	ours identified
patient and tested assessment. Genetic by an appropriate specialist. positive for PV counselling for family. Annual with paediatric neurologist.	
	onth MRI after
	osis and then 2-3
	ly MRI* unless
, , , , , , , , , , , , , , , , , , , ,	mptomatic
At least annual with team.	Implomatic
≥16 50% risk Confirmation of Care can be coordinated through Baseline	e MRI and MRI 3- ly if no tumours.
	reening aged 40- 50.
≥16 offspring of a Confirmation of Care can be coordinated through Annual	symptom check.
schwannomatosis diagnosis^ & the schwannomatosis MDT team	
patient and tested assessment. Genetic by an appropriate specialist. Baseline	e MRI and MRI 2-
positive for PV counselling for family. 3 -yearl	
Symptom check. Stop sc	y* if no tumours.
n	

[^] The name of all the schwannomatosis conditions reflect the underlying gene, thus *SMARCB1*-related schwannomatosis, *LZTR1*-related schwannomatosis, 22q-related schwannomatosis and schwannomatosis not otherwise specified (NOS)
*Whole Body MRI can be alternated

	Non- <i>NF2</i> -related schwannomatosis Review Checklist—Children (0—16)	
	WHAT TO LOOK FOR	WHEN TO REFER
SKIN	Subcutaneous nodules that move beneath skin and can often feel on thickened nerve	If symptomatic or needed for genetic diagnosis
NEUROLOGICAL	Neurological symptom review, particularly loss of neurological function	If loss of function
	Non- <i>NF2</i> -related schwannomatosis Review Checklist—Adults (16+) WHAT TO LOOK FOR	WHEN TO REFER
SKIN	Check for symptomatic lesions	If symptomatic or
		needed for genetic diagnosis
PSYCHOLOGICAL BURDEN	Effects are underestimated. Psychological problems are common but patients, may be reluctant to talk about these issues and need encouragement.	-
		-

Non-NF2-related Schwannomatosis (SCWN) Clinical Pathway



Family name:				
•				
Given name(s)				
Address:				
Date of Birth:	Sev.	ПМ	□Е	ПІ

Annual Review Recommended

At time of diagnosis, or possible diagnosis, ALL patients should be seen in a genetics department. Care can be co-ordinated through the schwannomatosis MDT team by an appropriate specialist. Annual review of symptoms should be undertaken by a recognised specialist. Patients, other local specialists and GPs have telephone access to the NF Reference Centre for NF-related concerns.

AGE	DIAGNOSTIC APPOINTMENT	ANNUAL SCWN REVIEWS OF SYMPTOMS CARRIED OUT BY	MRI head and spine
<12 50% risk or child of sporadic schwannomatosis patient or tested positive for family PV	Based on symptoms		Not required unless symptomatic
12-15 50% risk	Confirmation of diagnosis & assessment. Genetic testing		Baseline MRI and MRI 3-yearly if no tumours
≥16 50% risk	& counselling for family. Discharge if negative for family PV or on linkage		Baseline MRI and MRI 3-5 -yearly if no tumours. Stop screening aged 40-50
12-15 offspring of a schwannomatosis patient and tested positive for PV		Care can be co-ordinated through the schwannomatosis MDT team by an appropriate specialist.	2-3 yearly MRI* until tumours identified
≥16 offspring of a schwannomatosis patient and tested positive for PV	Confirmation of diagnosis & assessment. Genetic counselling for family.		Baseline MRI and MRI 2-3 -yearly* if no tumours. Stop screening age 70 if no tumours
<16 affected already with schwannomas			6-month MRI after diagnosis and then 2-3 yearly MRI* unless symptomatic
≥16 Affected with schwannomas			6-month MRI after diagnosis and then 2-3 yearly MRI* unless symptomatic
≥16 Affected with schwannomas * Whole Body MRI can be alternated			,

Review Checklist — Children (<16)

Clinical Presentation:	General Health Check:	WHAT TO LOOK FOR	WHEN TO REFER
	Please record the follow as soon as possible and then annually:	SKIN : Subcutaneous nodules that move beneath skin and can often feel on thickened nerve	If symptomatic or needed for genetic diagnosis.
Other symptoms: Genetic counselling completed	Height	Neurological symptom review, particularly loss of neurological function	REFER to Complex National Reference Centre or neurologist if loss of function. Date Referred:
Date Completed:			
Genetic Test \+'ve Diagnosis Date:	Blood Pressure		

The name of all the schwannomatosis conditions reflect the underlying gene, thus SMARCB1-related schwannomatosis, LZTR1-related schwannomatosis, 22q-related schwannomatosis and schwannomatosis not otherwise specified (NOS)

Review date:
Faculty:



Non-NF2-related Schwannomatosis (SCWN) Clinical Pathway

	European Reference Network for rare or low prevalence
٥	Complex diseases Network Genetic Tumour Risk Syndromes (SAN GENTINES)

Family name:				
Given name(s)				
Address:				
Date of Birth:	Sex:	□М	□F	

Annual Review Recommended

At time of diagnosis, or possible diagnosis, ALL patients should be seen in a genetics department. Care can be co-ordinated through the schwannomatosis MDT team by an appropriate specialist. Annual review of symptoms should be undertaken by a recognised specialist. Patients, other local specialists and GPs have telephone access to the NF Reference Centre for NF-related concerns.

			al review of symptoms should be e access to the NF Reference Cen			
AGE	DIAGNOSTIC APPOINTMENT	ANNUA	L SCWN REVIEWS OF SYMPTOMS CARRIED OUT BY		MRI head and spine	
<12 50% risk or child of sporadic schwannomatosis patient or tested positive for family PV	Based on symptoms				Not required unless symptomatic	
12-15 50% risk	Confirmation of diagnosis &	1			MRI and MRI 3-yearly if no tumours	
≥16 50% risk	assessment. Genetic testing & counselling for family. Discharge if negative for family PV or on linkage				seline MRI and MRI 3-5 -yearly if no tumours. p screening aged 40-50	
12-15 offspring of a schwannomatosis patient and tested positive for PV		appropriate specialist.		2-3 year	ly MRI* until tumours identified	
≥16 offspring of a schwannomatosis patient and tested positive for PV	Confirmation of diagnosis & assessment. Genetic counselling for family.				MRI and MRI 2-3 -yearly* if no tumours eening age 70 if no tumours	
<16 affected already with schwannomas					5-month MRI after diagnosis and then 2-3 yearly MRI* unless symptomatic	
≥16 Affected with schwannomas				6-month MRI after diagnosis and then 2-3 yearly MRI* unless symptomatic		
* Whole Body MRI can be alternated		1		1		
	Review	Checkl	ist — Adults (16+)			
Clinical Presentation:	General Health Ch	neck:	WHAT TO LOOK FOR WHEN TO REFER		WHEN TO REFER	
	Please record the follow as soon as possible and then annually:		SKIN: check for symptomatic lesions.		If symptomatic or needed for genetic diagnosis.	
Other symptoms:	Height		common but patients, may be reluctant to		Consider REFERRAL to an appropriate counselling service.	
Genetic counselling completed	Weight				□ Date Referred:	
Date Completed: Clinical diagnosis	, weight		Neurological symptom review, particle headaches, nerve pain, visual and ga	it	REFER to Complex National Reference Centre or neurologist if loss of function.	
	Blood Pressure		disturbances and loss of muscle function including mononeuropathy.		☐ Date Referred:	

Pain: It is important to review quality,

intensity and location of pain.

Notes:
The name of all the schwannomatosis conditions reflect the underlying gene, thus SMARCB1-related schwannomatosis, LZTR1-related schwannomatosis, 22q-related schwannomatosis and schwannomatosis not otherwise specified (NOS)

Genetic Test '+'ve

Diagnosis Date:

Doctor:	
Review date:	,
Faculty:	

pain.

☐ Date Referred:



REFER to pain specialist if uncontrolled