



Bristol Royal Hospital  
For Children

**NHS**  
**University Hospitals Bristol**  
NHS Foundation Trust

Dr H L Rees  
Secretary: Tel: 0117 342 8044

**Department of Paediatric Oncology**  
Bristol Royal Hospital for Children  
Upper Maudlin Street  
Bristol  
BS2 8AE

## **SOLID TUMOUR MDT REFERRAL PATHWAYS**

### **Retinoblastoma, Liver Tumours and Bone Tumours.**

This document has been produced by the Solid Tumour MDT at Bristol Royal Hospital for Children, Primary Treatment Centre (PTC) for the South West Region Paediatric Oncology service. The following information relates to our agreed referral pathways for the investigation and management of children and young adults with Retinoblastoma, liver tumours, bone tumours and soft tissue tumours.

#### **RETINOBLASTOMA**

There are two National Specialised Commissioning Group (NSCG) designated retinoblastoma services in the UK looking after 40-50 children per year diagnosed with retinoblastoma in the UK, Birmingham and London (Moorfields/Barts/GOSH). Both centres have multidisciplinary input with world class treatment modalities available. Both centres take referrals from throughout the UK and offer referral to local PTCs or their shared care services for adjuvant chemotherapy.

#### **South West CTYACC Recommended Pathway**

The solid tumour MDT in Bristol recommends referral to [Birmingham retinoblastoma service](#) and we would request that local ophthalmology services endeavour to make their direct referral to Birmingham for all patients across the South West regional network. We appreciate some ophthalmologists may have links to London colleagues but we would appreciate adherence to the regional referral pathway recommendations.

## REFERRAL INFORMATION FOR BIRMINGHAM RETINOBLASTOMA SERVICE

Lead Clinician – Mr Manoj Parulekar

Paediatric Oncologists: Dr Helen Jenkinson

0121 333 9475 Retinoblastoma service, Birmingham Children’s Hospital

### CCLG Recommended Retinoblastoma chemotherapy guidelines

“Guidelines for the management of children with Intraocular Retinoblastoma I, Chemotherapy.

Version 2.0, Oct 2008”

“Guidelines for the Management of Children with Advanced Unilateral Retinoblastoma following Primary Enucleation” Version 2 Revised: May 2015 Review date: May 2018

## LIVER TUMOURS

There are three NSCG designated centres for Paediatric liver surgery in the UK.

1. Birmingham Children’s Hospital
2. St James’s University Hospital, Leeds
3. Kings College Hospital, London

Between 1998-2007, there were 213 registrations for liver cancer in UK of which 147 were Hepatoblastoma. Overall 14% of all liver tumour patients had transplants with 10 in Birmingham, 4 in Leeds and 16 in London.

### South West CTYACC Recommended Pathway

The Solid tumour MDT in Bristol recommends referral to Birmingham Hepato-Biliary service for all liver tumours in the South West region. However,

- Liver tumour biopsies are usually performed in Bristol unless there are specific surgical issues preventing this in which case we will make the appropriate referral for biopsy.
- All suspected liver tumours must be referred to Bristol first for initial assessment and not referred directly to a Liver Unit from shared care centre.
- Referral to a Liver unit will then made by Bristol team on confirmation of diagnosis of liver tumour.

## REFERRAL INFORMATION FOR BIRMINGHAM HEPATO-BILIARY TEAM

Referrals may be faxed or emails as follows:

- Fax number: 01213338251.
- Email address: [Hepatology.secretaries@bch.nhs.uk](mailto:Hepatology.secretaries@bch.nhs.uk)

### CCLG recommended Hepatoblastoma chemotherapy guidelines

PHiTT – phase 3 clinical trial open and recruiting for all liver tumours

## BONE TUMOURS

This pathway refers only to primary bone tumours, not to soft tissue limb sarcomas. There are 5 NSCG designated bone tumour services:

1. Royal Orthopaedic Hospital, Birmingham
2. Royal National Orthopaedic Hospital, Stanmore, London
3. Freeman Hospital, Newcastle
4. Nuffield Orthopaedic Centre, Oxford
5. Robert Jones and Agnes Hunt Orthopaedic Hospital Oswestry

Over 85% of children diagnosed with a bone tumour from 1998-2007 were referred to Birmingham or London.

### South West CTYACC Recommended Pathway

The Solid tumour MDT in Bristol recommends referral to Birmingham Bone Tumour Service for all suspected bone tumours in the South West region. Please note, that whilst adult services (in Bristol) refer bone tumours to Oxford, this is NOT the recommended pathway for patients under 18 years of age under the care of, or due to be referred to paediatric oncology. The process of referral, biopsy, review at MDT and availability of results from Birmingham can take time so the following recommendations should be followed where possible:

- Referrals can be made directly to Birmingham from shared care teams but the Bristol team must be made aware of these referrals as soon as possible so the team can liaise directly.
- In the event of proven or suspected metastatic disease then simultaneous and prompt referral to Bristol is essential for discussion and planning of treatment in parallel with biopsy pathway in Birmingham.

- We recognise that referrals are sometimes made directly by local orthopaedic teams and so we request this pathway is shared with your local orthopaedic consultants/adult sarcoma MDTs so that they are clear about the recommended pathway for our patient group.

#### **REFERRAL INFORMATION FOR THE BIRMINGHAM BONE TUMOUR SERVICE:**

Please complete the attached Referral document or call orthopaedic oncology secretaries for on-service consultant to discuss directly.

- Oncology orthopaedic secretaries: 0121 685 4037/4021/4045/4019/4000

#### CCLG recommended Bone tumour guidelines:

- Standard Chemotherapy for Osteosarcoma - Statement of the London Sarcoma Service July 27th 2011. <http://www.lsesn.nhs.uk/files/standard-chemotherapy-osteosarcoma.pdf>
- Use of Mifamurtide: [NICE guidance-Mifamurtide](#)
- Ewings sarcoma – EuroEwing 2012 (clinical trial OPEN)

#### **SOFT TISSUE SARCOMAS - EXTREMITY.**

There is no agreed national pathway for limb/extremity soft tissue sarcomas. Within Bristol, through the paediatric solid tumour MDT and adult sarcoma MDTs, there is surgical expertise available for biopsy and definitive surgery for these tumours.

#### South West CTYACC Recommended Pathway

The Solid tumour MDT in Bristol recommends referral to the paediatric solid tumour MDT for all suspected soft tissue sarcomas (from all sites) for initial discussion. The MDT will then decide which surgical team the patient should be referred to for biopsy and definitive local therapy where appropriate.

#### **Referral information for the Bristol solid tumour MDT:**

Paediatric MDT Lead: Dr Helen Rees [helen.rees@uhbristol.nhs.uk](mailto:helen.rees@uhbristol.nhs.uk)

Paediatric Oncology MDT coordinator: [paedoncmt@uhbristol.nhs.uk](mailto:paedoncmt@uhbristol.nhs.uk)

CCLG recommended Soft tissue Sarcoma guidelines (see CCLG website and NIHR HUB for relevant documents)

- Rhabdomyosarcoma – EpSSG RMS 2005 (closed clinical trial)
- Recommendation for relapsed RMS
- Recommendation for metastatic RMS
- Non-Rhabdomyosarcoma soft tissue tumours – EpSSG NRSTS 2005 (closed clinical trial).

Yours Sincerely



Dr Helen Rees

**Consultant Paediatric Oncologist & Chair Solid tumour MDT**

Dr Rachel Cox

Dr Steve Lewis

Dr Antony Ng

**Consultant Paediatric Oncologists  
Bristol Royal Hospital for Children**