

Diagnosis: Insights from Sarcoma UK and the Bone Cancer Research Trust

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Why focus on diagnosis?

"I initially went to the GP with a small lump on my left foot, which was dismissed, even when it continued to increase in size."

"If only one clinician that saw my Dad along his journey to diagnosis had thought about the possibility of sarcoma, they might have saved his life" "It took me 6 years to be diagnosed. When I was 15 or 16, I was going to the doctors every week and still noone knew what was wrong or that it could have been sarcoma"

- As patient facing charities, we regularly hear about long and distressing waits for a diagnosis.
- Data on sarcoma diagnosis is poor.
- Catching tumours early, at a smaller size means less chance of metastasis and improved outcomes.





National Sarcoma Survey 2020

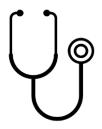
1,117 patients, parents, families and carers



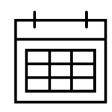
79% of adult patients had not heard of sarcoma before their diagnosis.



14% took **more than 6 months** to make their first visit to a healthcare professional



35% of patients had to see a healthcare professional **more than 3 times** before they were referred for further tests.



30% took more than **6 months** to receive an accurate diagnosis, with **17%** waiting more than **a year**.



At this first appointment, **39%** of adult respondents were either started on **treatment for something else** or were told their **symptoms weren't serious**.





1. National Sarcoma Survey 2020

2. Literature Review

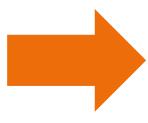
- Peer-reviewed journal articles and clinical trials.
- Literature from cancer advocacy and government health bodies.

3. Direct patient and carer input

Zoom/telephone interviews and focus groups

4. Clinician input

 Through zoom/telephone interviews and an online survey



Delays cost lives

A call to policy makers to improve early diagnosis of sarcoma

Recommendations

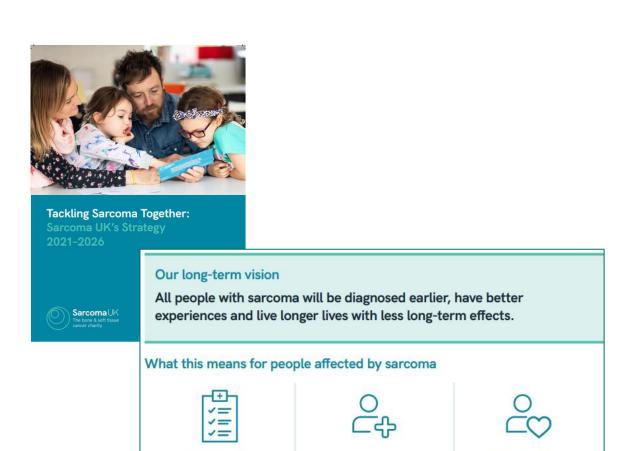
- 1. Healthcare Professional Education
- 2. Public Awareness
- 3. Effective Referrals and Scans





What are the next steps for Sarcoma UK?

- Building Early Diagnosis into our strategy
- Creation of an Expert Steering Group
 Made up of advocates from across the sarcoma community, who will monitor and guide progress of our early diagnosis work.
- Primary Care Professional Education
 GatewayC education resource in development
- Working in collaboration...



Patients will live longer

better experiences

of their sarcoma

Patients will be

diagnosed earlier

(at stage | or ||)





2020 Patient Survey

The 2020 Patient Survey is the most comprehensive analysis of the symptoms and diagnostic experiences for primary bone cancer patients to date.



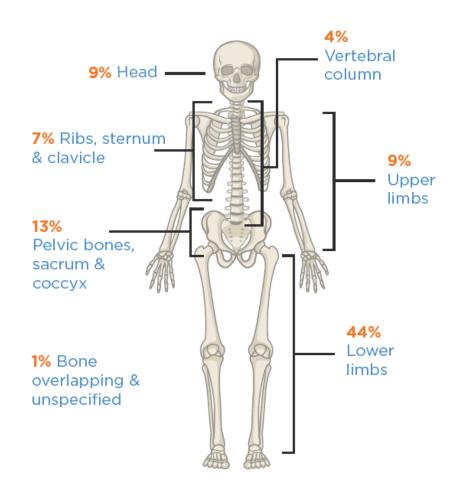
- The objectives are to provide healthcare professionals with the tools they need to recognise the symptoms of primary bone cancer and to emphasise their referral pathways.
- Building on our 2018 Patient Survey and to substantiate the campaign, in July 2020, we carried out a more in-depth survey.







Anatomical location of tumours



- Of patients experiencing bone pain, 32% suffered **referred pain** pain at a different anatomical location to the tumour.
- This emphasises the importance of imaging the correct area.
- General symptoms: 32% reported fatigue.
- Need to look at the symptoms in combination.

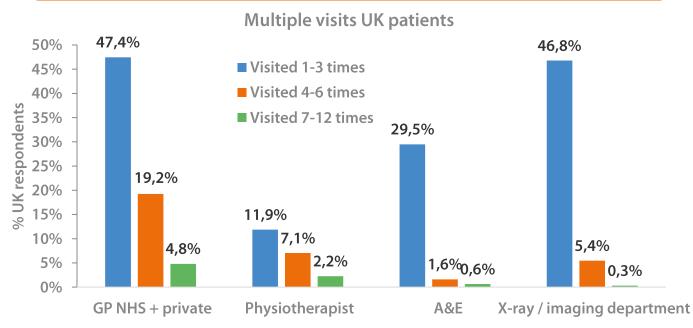




Where did patients present? How long did it take to receive a diagnosis?

76% of patients in the UK first reported their symptoms to a GP and 11 % attended A&E

Average number of visits to any healthcare professional
8.2 visits (UK)
6.5 visits (outside the UK) (p =0.0035)

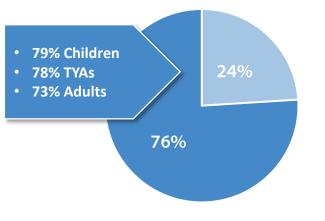


Average number of visits to a GP in the UK was **4.0**

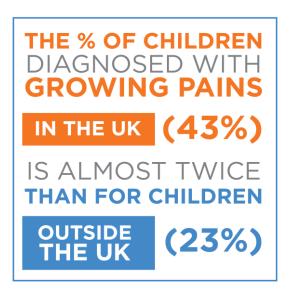




% UK patients



■ No misdiagnoses ■ Misdiagnoses



Diagnoses

Many patients received non-diagnoses, misdiagnoses and alternative explanations for their symptoms

- Growing pains for children and teenagers.
- Sporting injury and pulled muscles were the most common misdiagnoses reported for all ages.
- Arthritis and sciatica were also reported.
- In tumours of the jaw and skull; migraines, tooth abscess and ear and sinus infections were commonly misdiagnosed.





Time to diagnosis

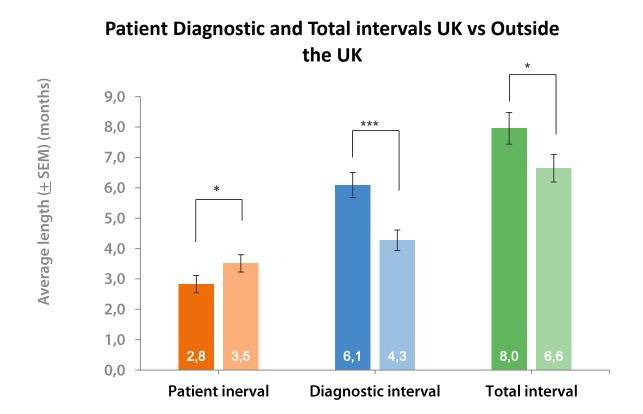
Patient interval



Diagnostic interval



Total interval







Maximum waiting times for urgent cancer referrals

The maximum waiting time for suspected cancer is 2 weeks from the day your appointment is booked through the NHS e-Referral Service, or when the hospital or service receives your referral letter.





What we did next...

- Health care professionals most visited by patients were: GPs, Physiotherapists, A&E, Other hospital consultants, X-ray / imaging departments.
- We have assembled a task force of medical professionals who provided their professional support and expertise. Delivered a series of webinars for professionals and the public.
- **Bone Cancer Awareness Initiative** provide healthcare professionals with the tools they need to recognise the symptoms of primary bone cancer and to clarify the referral pathways that are specific for each.



Dr Phil Green

Krista Bose

Medical

Student

Geraint Davies Specialist Orthopaedic Oncology Physiotherapist



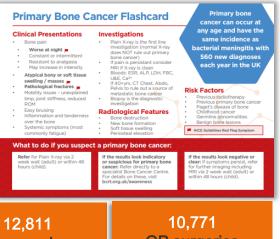
Dr Rajesh Botchu Consultant **Specialist** Musculoskeletal **Radiologist**



Dr Sandra Strauss Consultant Medical Oncologist



Mr Jonathan Stevenson Consultant **Orthopaedic Oncology** and Arthroplasty Surgeon



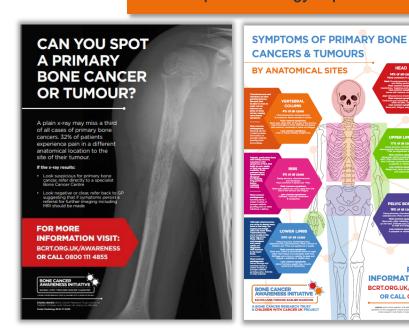
Pharmacies

GP surgeries

586 Physiotherapy practices

44 **Medical Schools**

1.542 Hospitals/radiology departments













Working in Partnership



- Monthly meetings to share ideas and progress.
- Identified Healthcare Professional Education as a priority area.
- Medical students chosen as an early priority.



- From 2018 Bone Cancer Research Trust began hosting students from the University of Sheffield Medicasl to conduct research projects.
- Previous topics included the impact of surgery and emotional wellbeing

In 2020 some of the students focused on diagnosis and Bone Cancer Research Trust invited Sarcoma UK to collaborate

- Designing a survey for medical students
- Exploring how medical students prefer to learn
- What existing sarcoma learning tools/ modules exist and how they could be adapted





Medical Student Survey





Sorrel Bickley @Sorrel_Bickley · Mar 11

Great news! @Sarcoma_UK and @BCRT are joining forces to improve medical student education on sarcoma.

Early diagnosis is so important for sarcoma patients, and this work is going to make a difference. #DelaysCostLives.



Bone Cancer Research Trust @BCRT · Mar 9

We're delighted to announce that we have teamed up with @Sarcoma_UK to launch a new collaboration, aiming to increase awareness of sarcoma amongst medical students. 🧸 🧝

If you are a medical student and want to take part or to find out more, visit — ow.ly/g4JH50DUgmE

Get involved

Research

Information

Awareness

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Bone Cancer Research Trust & Sarcoma UK launch Sarcoma Awareness Survey for Medical **Students**

22 February 2021

The Bone Cancer Research Trust and Sarcoma UK are launching a new collaboration, aiming to increase awareness of sarcoma amongst medical students. The first stage of the collaboration builds on awareness work being undertaken by both charities, the launch of a survey to collect data from medical students across the UK to inform next stages of the project.



News

Archives

News

2021

April

February

January

2020

December

November

October September

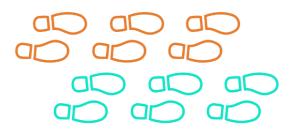
August

July





The next steps...



- Working on analysis of medical student survey.
- More collaborative work on Sheffield medical student projects.
- Bone Cancer Research Trust developing a new 5 year strategic plan.
- Sarcoma UK Early Diagnosis Expert Steering Group.
- Plans to broaden our collaboration...