

Child and Adolescent Cancer Pain

Research Grant Funding Opportunity

Guidelines for Applicants

Summary

This document guides you through the preparation and submission of an application for Child and Adolescent Cancer Pain Research Grants.

Deadline for Submission: 12:00 Tuesday 26 September 2023

Applications must be submitted and approved by all signatories and the application received in its entirety by this deadline. All applications must be submitted via the Medical Research Foundation online grants management system (<https://medicalresearchfoundation.flexigrant.com/>). Paper application forms will not be accepted.

We advise that you prepare your application in good time to allow for your Research Organisation's checks and approvals to take place in accordance with its internal timelines. You will not be able to submit applications after this deadline. We recommend that you submit your application in advance of the deadline so that any technical issues can be resolved in good time.

The Medical Research Foundation is committed to making this application accessible to all by offering assistance where needed. Please do not hesitate to get in touch with the Research Team if you have any questions or concerns about the application or interview processes:

Email: research@medicalresearchfoundation.org.uk Tel: 0207 395 2420

Overview

The Medical Research Foundation is inviting applications from researchers who are seeking to progress the field. The grant aims to support research that will increase understanding of the mechanisms underpinning child and adolescent cancer pain, improve diagnosis and treatment, and/or impact on future outcomes.

Applications are welcomed from researchers at all levels of seniority. We would particularly welcome applications from established researchers working in adult pain, cancer, or other adjacent fields of research who wish to apply their skills and knowledge to a proposal focusing on cancer pain in young people.

The Medical Research Foundation wishes to support collaborative and multi-professional research as appropriate, whereby researchers across the full spectrum in the field will work collaboratively. We particularly encourage applications that are led by multi-professional partnerships, i.e., bringing together basic scientists, clinicians, and allied health professionals.

Pain is one of the main symptoms reported by children suffering from cancer. To understand this pain, we need to move away from adult-focussed research and the common misconception that children feel pain like adults. Improvements in the care of children with pain will only occur if they are informed by a scientific biological understanding of the developmental features of pain perception at this vulnerable stage of life. To move this field forward, we need to improve our fundamental knowledge of cancer pain processes in children and young adults up to the age of 25.

Research areas could include, but are not limited to:

- understanding of the biological mechanisms involved in child and adolescent cancer pain
- the development of treatment approaches for child and adolescent cancer pain
- understanding and reducing the impact of child and adolescent cancer pain on health and well-being

The Funder

The Medical Research Foundation is an independent charitable foundation. Formed by the Medical Research Council (MRC) over 90 years ago, we grow and nurture people and ideas wherever we see research opportunities with great potential.

The research supported in this competition is possible thanks to the support of our generous donors.

The Funding

Applicants applying for the research grants may apply for up to £300,000 to support their research, over a maximum of a 3-year period. There will be up to £950,000 available across this competition and the concurrent Launchpad Grant funding call in Child and Adolescent Cancer Pain.

Who can apply

This competition is open to all UK-based researchers, clinical academics and allied health professionals at eligible institutions (UK HEIs, Research Council research institutes, hospitals, and other independent research organisations). Applicants must hold a PhD, DPhil or MD.

Applications will be considered from researchers at all levels of seniority. We particularly welcome proposals from established researchers in adjacent fields of cancer and adult pain who wish to apply their skills and knowledge to young people's pain. Applicants and co-applicants may request a contribution to their salary costs, up to a total of 20% of the overall application budget. Proposals that aim to build capacity through the next generation of researchers are encouraged; costs relating to postdoctoral salary, training and collaboration development in the UK and internationally are permitted.

Applications led by multi-professional collaborations, for example basic scientists, clinicians and allied health professionals, are strongly encouraged to apply.

Applicants who do not meet the eligibility criteria will not have their proposal assessed.

Only one application will be accepted per applicant, though individuals can hold more than one Medical Research Foundation grant at any one time.

If you have any queries about your eligibility for the scheme, please contact the research team via email at: research@medicalresearchfoundation.org.uk.

Equality, Diversity and Inclusion

The Medical Research Foundation is committed to achieving equality of opportunity for all funding applicants and aims to create an inclusive environment that encourages excellence in research through good equalities practice. Diversity is important to the Medical Research Foundation, and we are working to ensure that the ways in which we fund research embraces a diversity of thought, people, geographical locations and ideas.

We strongly encourage applications from under-represented groups including female and ethnic minority researchers, and researchers with disabilities or long-term health conditions. We will support our researchers and their teams to work flexibly and in a way that meets their personal circumstances. Guidance on the Medical Research Foundation flexible working policies can be found in our [Terms and Conditions](#). Please contact the Research Team if you have any questions about flexible working: research@medicalresearchfoundation.org.uk.

The Medical Research Foundation encourage lead applicants to consider the diversity of the research team, as well as area of expertise, when inviting Collaborators to support their application.

Responsibilities of the Lead Research Organisation and the Principal Investigator

Lead Research Organisation

By submitting an application, a Lead Research Organisation (LRO) indicates their formal acceptance of the proposal, approval of the salaries and resources sought and, if the application is successful, acceptance of the [Terms and Conditions](#) of a Medical Research Foundation award.

Administrative authorities have responsibility for ensuring that salaries and resources cited in the proposal are sufficient to undertake the proposed research, attract sufficiently experienced and skilled staff and represent good value-for-money.

Principal Investigator (PI)

The PI is responsible for the intellectual leadership of the research project and for the overall management of the research. They will be the Medical Research Foundation's main contact for the proposal. There can only be one PI on any proposal.

The PI must be based at the LRO at which the award will be administered.

Key dates

- Deadline for submission: 12:00 Tuesday 26 September 2023
- Shortlisting Notification: January 2024
- Rebuttal Process: January/February 2024
- Funding Decision: February/March 2024

Application Guidance Notes

The information provided in this section provides guidance on completing the application form on the Medical Research Foundation online grants management system (<https://medicalresearchfoundation.flexigrant.com/>). Guidance is provided within the system itself and this additional guidance will also be available on our website.

Please clearly label all uploaded files and ensure that all relevant documents are suitable and present.

If you have any questions about any aspects of the application process, please contact a member of the Medical Research Foundation's team.

Email: research@medicalresearchfoundation.org.uk Tel: 0207 395 2314

There can only be one lead applicant, up to two additional co-investigators are permitted. Additional researchers included as part of the multidisciplinary collaboration should be named as co-investigators.

Any other individuals involved in the project can be listed as collaborators unless they will be employed on the grant, in which case they should be named as staff members. Co-investigators and Collaborators will need to provide signed declarations on letter-headed paper confirming that they have consented to co-operate in the research project and explaining the role they will play.

For clarification on the expectations of these roles, please refer to the [Medical Research Foundation's Terms and Conditions](#).

Completing the Narrative CV

Lead applicants are required to submit a CV using the Medical Research Foundation Résumé for Researchers CV template. A word version of the template is available on our website and within the online application form.

The Résumé for Researchers is an open-source template which has been developed by The Royal Society as a tool to more broadly evaluate researchers, particularly at the early career stages. The template has been adopted and adapted by the Medical Research Foundation as it supports the Foundation's approach of considering a wider view of contribution to the research landscape, at all career stages, not based solely on publication record.

Applicants are encouraged to provide examples of their impact outside of publications lists, although these should still be provided. Examples such as collaborative working, effective leadership, coaching and mentoring as well as inspiring others are welcomed.

Career progression disruptions and Impact of COVID-19

The COVID-19 pandemic has had a significant and variable impact on researchers' careers across the world. The Foundation is committed to helping mitigate this as much as possible through our grant-making policies and practices, we are pleased to support the UK Academy of Medical Sciences Cross-funder COVID-19 memory statement as co-signatories, please see [our website](#) for further details.

There is a dedicated space within the application form, to detail how your career progression has been impacted by COVID-19. Additionally, guidance will be given to our Expert Reviewers and Panel Members so that they are able to take these impacts on an applicant's career into account when they are making funding recommendations.

Applicants are also provided with space to detail any other career disruptions (e.g. parental leave, ill health) that may have impacted their progression. Please only share details that you are comfortable with being shared with the Panel and do not include identifying information about third parties.

Contribution to knowledge generation

This section can be used to explain how you have contributed to the generation of new ideas and hypotheses and which key skills you have used to develop ideas and test hypotheses. It can be used to highlight how you have communicated your ideas and research results, both written and verbally. It can include a small selection of outputs, with a description of why they are of particular relevance and why they are considered in the context of knowledge generation. Outputs can include (but is not limited to) open data sets, software, commercial, entrepreneurial or industrial products, clinical practice developments, educational products, policy publications, evidence synthesis pieces and conference publications that you have generated. Where outputs have a digital object identifier (DOI) please only include this.

Contribution to the development of individuals

This section can be used to highlight expertise you provided which was critical to the success of a team or team members including project management, collaborative contributions, and team support. It can include your teaching activities, workshops or summer schools in which you were involved (for undergraduates and post-graduates as well as junior colleagues), and the supervision of students and colleagues. It can be used to mention mentoring of members in your field and support you provided to the advancement of colleagues, be it junior or senior. It can be used to highlight the establishment of collaborations, from institutional (maybe interdisciplinary) to international. It can be used to describe where you exerted strategic leadership, how you shaped the direction of a team, organisation, company or institution.

Contribution to the wider research community

This section can include various activities you have engaged in to progress the research community. It can be used to mention commitments including editing, reviewing, refereeing, committee work and your contributions to the evaluation of researchers and research projects. It can be used to mention the organisation of events that have benefited your research community. It can highlight contributions to increasing research integrity, and improving research culture (gender equality, diversity, mobility of researchers, reward and recognition of researchers' various activities). It can be used to mention appointments to positions of responsibility such as committee membership and corporate roles within your department, institution or organisation, and recognition by invitation within your sector.

Contribution to broader society

This section can include examples of societal engagement and knowledge exchange. It can include engagement with industry and the private sector. It can be used to mention engagement with the public sector, clients and the broader public. It can be used to highlight positive stakeholder feedback, inclusion of patients in processes and clinical trials, and other impacts across research, policy, practice and business. It can be used to mention efforts to collaborate with particular societal or patient groups. It can be used to highlight efforts to advise policy-makers at local, national or international level and provide information through the press and on social media.

Application form question guidance

Section 1: Principal Investigator details

There can only be one lead/principal investigator. Additional project Co-Investigators can be included in the sections 3-6. A maximum of four Co-Investigators can be included.

Any other individuals involved in the application can be listed as collaborators in section 6, unless they will be employed on the grant, in which case they should be named as staff members. Collaborators will need to provide a signed declaration on letter-headed paper confirming that they have consented to co-operate in the research project and explaining the role they will play.

Section 2-5: Co-Investigator details and career summary

Please provide career history details of up to four Co-Investigators. A Co-Investigator is a person who assists the Principal Investigator in the management and leadership of the research and is named as such in the application.

Section 6: Research Proposal

The scientific title and abstract should be written in a form understandable to an academic audience. The lay title and summary abstract should be written in a form understandable to members of the public (e.g. current or potential supporters) who are not specialists in the field of the impact of child and adolescent cancer pain.

Please indicate the key scientific objectives and challenges of the research and any potential medical, clinical or societal implications.

These abstracts will be used for external communications about the award and should therefore not contain specific details of any sensitive information, such as patient details or personal information.

Case for Support: proposed collaborative research project

Provide details of the proposed collaborative research project. References, diagrams, tables or charts, and

justification of samples sizes (including sample size calculations, where appropriate, or a justification for why these have not been included) can be included within the text or as an appendix.

The Case for Support and appendices for applications should not exceed 8 A4 pages PDF format (size 12, Arial font, 2 cm margins).

The detailed Case for Support should include the following information:

- 1. Background** – provide relevant background information that is needed to understand the wider context of your application. Explain the need for research in this area and the rationale of the lines of research planned. Give sufficient details of other past and current research to show that the aims are scientifically justified and to show that the work will add distinct value to what is already known, or in progress. Justify the research either through its importance for human health, or its contribution to relevant areas of basic biomedical science.
- 2. Hypothesis and objectives** – describe the main hypotheses to be investigated, details of the objectives and how they will be achieved.
- 3. Study design** – describe the experimental approaches and methodology for the collaborative research project in detail (for example giving and explaining sample sizes, methods of recruitment and trial designs). It is not necessary to describe each experiment (if relevant), but sufficient detail is required to show why the research is likely to be competitive. Where human participants are involved, consideration should be given to how diversity factors such as sex, ethnicity and age are included and accounted for in the study design.
It is strongly encouraged that projects include opportunities for training and development of early-career researchers, such as new postdoctoral researchers
- 4. Timelines and milestones** – give timelines for the research with major milestones and deliverables.
- 5. Potential problems and contingency plans** – highlight any potential risks and identify procedures that can be put in place to deal with them.
- 6. People** – outline how each of the investigators named in the proposal would work together and outline other major collaborations important for the research. Detail productivity from previous appointments/research funding and demonstrate how the award will promote the applicant's trajectory towards research independence. Where appropriate, explain how the grant will contribute to the applicant's career and also the development of others.
- 7. Environment** – describe how the scientific or clinical environment(s) in which the research will be conducted will promote the delivery of the proposed research. Explain how the research will benefit from facilities provided by the Research Organisations. Describe any clinical, commercial, or organisational dependencies necessary to support the research, or to help translate it into practice.
- 8. Ethics & Research Governance** - describe the ethical issues arising from any involvement of people, human samples or personal data in the research proposal. Give details of how any specific risks to human participants will be controlled, and of any new animal research the funding would be supporting. Describe the ethical review and research governance arrangements that would apply to the proposed research.
- 9. Exploitation and Dissemination** – describe plans to disseminate the findings of the research. Is the proposed research likely to generate commercially exploitable results? Other than publication in peer reviewed journals, indicate how any results arising from the research will be disseminated to promote or facilitate take-up by users in the health services.

Gender dimension of research

The Medical Research Foundation expects that applicants will consider the gender dimension of their research proposal. Gender dimension in this instance refers not to the diversity of the research team (which should also be considered), but the sex and gender component of the experimental design that involves human participants, animal studies, human and animal tissues, and cell lines.

Sex refers to the biological attributes of humans and animals, such as genes, chromosomes, hormone levels and reproductive organs. Sex can be referred to as male, female and intersex in humans or hermaphrodite in animals.

Gender refers to the social and cultural attributes of human behaviour. How individuals refer to gender will vary depending on social and cultural context and this can also vary over time.

Applicants should include the following information:

1. How the biological variable of sex will be taken into account in the experimental design with regards to research methods, data analysis and interpretation, and dissemination of findings.
2. How the socio-cultural variable of gender will be taken into account in the experimental design with regards to research methods, data analysis and interpretation, and dissemination of findings.
3. How the impact of the findings may affect different sex and genders differently.

If sex and or gender do not need to be taken into account, applicants will need justify why. For instance, the Medical Research Foundation expects that both sexes of animals will be used in animal experiments as the default, and that cost or previous published data are not sufficient justifications to use only one sex.

Please refer to the [MRC guidance on sex and gender in experimental designs](#).

Collaborators

Please provide details of any additional collaborators on the project. This does not include individuals already identified as Co-Investigators. Collaborators will need to provide a signed declaration on letter-headed paper confirming that they have consented to co-operate in the research project and explaining the role they will play.

Recommended and Excluded Reviewers

Please suggest up to three experts to review the application. These individuals should not be: i) closely associated with the proposed project or any related work; ii) collaborators/co-applicants on any active or recent grants; iii) have published with the lead applicant/s in the past five years; or, iv) previous mentors/supervisors of the lead applicant/s. We cannot guarantee that we will approach these experts for an assessment of the applications.

Please provide the names of up to three reviewers that you do not wish to review the application due to potential conflicts of interest.

Data Management Plan

The Medical Research Foundation is committed to ensuring that the knowledge and discoveries which result from our funded research are available freely and immediately to everyone. A Data Management Plan (DMP) is required to detail how you will collect, store, curate, and manage data, including how it will be shared and any open access requirements.

Where substantial data is generated from the research, the DMP will be more in depth and therefore likely to be up to 1000 words long, for studies generating smaller amounts of data, DMPs will be short i.e. 200-500 word in total.

The [MRC Policy and Guidance on Sharing of Research Data from Population and Patient Studies](#) is a useful reference for data relating to studies involving human participation.

Section 7: Use of Animals in Research

The Medical Research Foundation expects that before work commences on any research, the Principal Investigators will have ensured in collaboration with the Lead Research Organisations that all appropriate regulatory approvals are in place. These could include those relating to human participation, radiation, genetic manipulation, animals, stem cells, personal safety and health and safety.

The Medical Research Foundation expects that research involving animals will comply with UK regulations, regardless of which country the research is carried out in, and the research is planned and conducted according to the [3Rs](#).

If the project involves the use of animals in the UK, please provide confirmation of personal licences for all members of staff involved in the proposed animal research. In addition, please confirm the relevant project licence covers the proposed work. UK Home Office licences will only be required when research involving animals is being conducted within the UK. If your research involves animal use outside of the UK, complete the relevant questions regarding national and local ethical approval for animal research and describe how your research complies with UK animal procedure regulations.

Section 8: Human participation and ethical approval

If the project involves the use of human participants and/or organs, tissues or cells relevant to The Human Tissue Act 2004 (England, Wales and N. Ireland) and The Human Tissue (Scotland) Act 2006 in the UK, please detail the relevant ethical approvals.

If ethical approval is required for the research proposal, please provide details of the relevant approvals.

If your research involves the use of human participants and/or organs, tissues or cells outside the UK, please provide details in the relevant questions. Describe how your research complies with relevant UK regulations. Applications involving human participants in countries outside of the UK may be subject to additional ethical implications.

Please see the MRC guidance related to [Using human samples in research](#) and [Human Participants in Research](#) for further direction on research involving human participants in countries outside of the UK.

Section 9: Intellectual property

Please detail any intellectual property that this project will generate, either during or beyond the lifetime of the award. Please include details of any existing background intellectual property that will need to be used and/or modified and plans for ownership of this intellectual property.

If intellectual property is likely to be generated, a letter of support will be required from your departmental IP Manager/Head of Technology Transfer Unit.

Section 10: Financial Schedule

The Medical Research Foundation will meet the full direct costs of research. Direct costs are those that will arise from the conduct of the research project and can be charged as the cash value spent and

can be supported by an auditable record. Like all medical research charities, the Medical Research Foundation does not meet the indirect costs of research.

Applications should be costed at today's prices and inflation should not be included.

It is expected that the PI will be in an established post for the duration of the grant, and as such will not require full salary support (percentage contributions may be costed).

Applications can include requests for the costs of:

- Research staff (who will directly support the research proposal), including postdoctoral researchers, research assistants, research technicians etc. including annual pay-scale increments but excluding predicted annual pay awards and overheads *i.e.* the apprenticeship levy
- Contribution towards salary for the lead and co-applicants, up to a total of 20% of the overall application budget
- Costing related to postdoctoral researchers
- Research consumables and minor equipment
- Access charges for specialist equipment or services
- Travel costs of the PI or members of staff travelling between multi-centre research sites or for scheduled collaborator meetings relating to the project.
- Animals and animal husbandry
- Partnership and collaboration development activities in the UK and internationally
- Training or capacity building activities
- Conference travel and subsistence
- [Open access publishing costs](#) (up to £6,000 for grant durations of a three-year minimum)
- Research equipment
- Any other direct costs of the proposed research

Medical Research Foundation research grants will not fund:

- Any directly allocated costs *i.e.* estate costs and costs of shared resources such as staff and equipment.
- Collaborator salaries
- PhD students
- Any indirect costs necessary for underpinning research but which cannot be allocated to individual projects (including but not limited to bench fees, computing and information support, general maintenance and other infrastructure costs, HR and recruitment costs etc.)
- Patient care, NHS treatment or NHS support costs associated with clinical research, which are met through other sources of funding.
- Cost of public engagement in science work
- Other costs associated with dissemination of research findings.

Justify the budget requested and provide details of any costs to be met through other funding sources.

Sections 11-13: Authorisation and Declarations

Authorisations and/or declarations are needed from the following application participants:

- Principal Investigator
- Research Administrator
- Head of Department

Participants should be invited to complete their sections of the application by following the instructions under the participants tab on the Application Summary page. Please check which email address they would like to use, as they may already be registered on Flexi-Grant and mistakes may lead to a delay in processing the application.

Applicants can keep track of the progress of submission completion status on the Application Summary page. Applicants can issue a reminder email to the invited participants through the participants tab on the Application Summary page. If the instruction email from the Medical Research Foundation has not been received please: a) double check the accuracy of the email address supplied on the application form; b) advise the intended recipient to check their spam filters/junk folders; c) contact the Medical Research Foundation with an alternative email address for the recipient. The Medical Research Foundation is happy to help where possible but cannot be held responsible for automated emails that are not received due to address errors or spam filters.

All declarations must be signed by the appropriate persons prior to the submission of the application. It is the applicants' responsibility to ensure that approval of the application by the Lead Research Organisations is completed before the closing date.

Applicants

Lead applicants are required to report any conflicts of interest. Each lead applicant is required to declare that they will abide by the Medical Research Foundation's Terms and Conditions and will be actively engaged in the proposed research.

Head of Departments

The Head of Department must provide a statement of support and authorise the application confirming that the potential award can be hosted within their organisation and that there is the capacity to deliver the proposed research. The relevant Head of Department should state how the applicant will be supported to focus on their proposed research, for example by being released from competing duties such as teaching or administrative commitments. Additionally, they should provide details of the resources that the department will commit to the applicant should the application be successful.

Before inviting the Head of Department to participate in completion of the application form, applicants are advised to ensure that their Head of Department is willing and available to provide a confirmation of support prior to the deadline. Incomplete confirmations will mean that an application cannot be submitted and will be deemed to be ineligible.

It is the responsibility of the lead applicants to inform the Head of Department of the deadline and liaise with them to ensure that they have received their invitation with instructions to participate in completion of the application.

Research Administrators

Research Administrators at the Lead Research Organisation should be invited to approve the application ("Administrative Authority"). They must be someone with delegated authority at the Lead Research Organisation where the award will be held. This may be someone within the research office, Faculty administration, or other administrative or management role. The approver must be someone with the authority to confirm that the potential award can be hosted within their organisation and assure the proposed budget is appropriate and eligible for the scheme.

This section should be completed by individuals at the Lead Research Organisation responsible for the administration of funds. They will be contacted regarding financial arrangements and other contractual

agreements, if your application is successful.



Appendices

Scoring Matrix for Reviewers

Score Indicators	Score
Exceptional – Top international programme, or of exceptional national strategic importance	
<ul style="list-style-type: none"> ■ Scientific Quality and Impact <ul style="list-style-type: none"> – Crucial scientific question or knowledge gap or area of strategic importance to the UK – Highly original and innovative research questions – Novel methodology and design – Potential for high health and/or socioeconomic impact – Outputs will be internationally unique and of value across the child and adolescent cancer pain field – Very high likelihood of successful delivery ■ Scientific Leadership <ul style="list-style-type: none"> – Outstanding leadership, with evidence of supporting and developing junior researchers (track record, team, environment, and collaborators) ■ Justification of Resources <ul style="list-style-type: none"> – Potential for high return on investment (resources requested, likelihood of project delivery, anticipated knowledge generation) – Appropriate staff time allocated to deliver project (Principal investigators and co-investigators) ■ Other: Ethical and/or governance issues are fully considered 	6
Excellent – Internationally competitive and leading edge nationally, or of national strategic importance	
<ul style="list-style-type: none"> ■ Scientific Quality and Impact <ul style="list-style-type: none"> – Crucial scientific question or knowledge gap or area of strategic importance to the UK – Original and innovative research questions – Includes novel methodology and design – Potential for high health and/or socioeconomic impact – Outputs will be internationally significant and of value across child and adolescent cancer pain field – Very high likelihood of successful delivery ■ Scientific Leadership <ul style="list-style-type: none"> – Excellent research leadership with evidence of supporting and developing junior researchers (track record, team, environment, and collaborators) ■ Justification of Resources <ul style="list-style-type: none"> – Potential for high return on investment (resources requested, likelihood of project delivery, anticipated knowledge generation) – Appropriate staff time allocated to deliver project (Principal investigators and co-investigators) ■ Other: Ethical and/or governance issues are fully considered 	5
Very High Quality – Internationally competitive in parts	

<ul style="list-style-type: none"> ■ Scientific Quality and Impact <ul style="list-style-type: none"> – Very important scientific question or knowledge gap or area of strategic importance to the UK – Original and innovative research questions – Robust methodology and design (innovative in parts) – Potential for high health and/or socioeconomic impact – Outputs will be internationally significant in part (leading edge nationally) and of value across the child and adolescent cancer pain field – Very high likelihood of successful delivery ■ Scientific Leadership <ul style="list-style-type: none"> – Excellent research leadership (track record, team, environment, and collaborators) ■ Justification of Resources <ul style="list-style-type: none"> – Potential for significant return on investment (resources requested, likelihood of project delivery, anticipated knowledge generation) – Appropriate staff time allocated to deliver project (Principal investigators and co-investigators) ■ Other: Ethical and/or governance issues are fully considered 	4
High Quality	
<ul style="list-style-type: none"> ■ Scientific Quality and Impact <ul style="list-style-type: none"> – Worthwhile scientific question or knowledge gap or a valuable scientific resource – Interesting research questions in part – Methodologically sound study – Potential for reasonable health and/or socioeconomic impact – Outputs of reasonable value across the child and adolescent cancer pain field – High likelihood of successful delivery ■ Scientific Leadership <ul style="list-style-type: none"> – Strong research leadership (track record, team, environment, and collaborators) ■ Justification of Resources <ul style="list-style-type: none"> – Potential for significant return on investment (resources requested, likelihood of project delivery, anticipated knowledge generation) – Appropriate staff time allocated to deliver project (Principal investigators and co-investigators) ■ Other: Ethical and/or governance issues are well considered (may be scope to strengthen management of the project) 	3
Good Quality	

<ul style="list-style-type: none"> ■ Scientific Quality and Impact <ul style="list-style-type: none"> – Worthwhile scientific question or knowledge gap or a valuable scientific resource – Limited research questions – Methodologically sound study but areas require revision – Potentially valuable outputs across the child and adolescent cancer pain field – Reasonable likelihood of successful delivery ■ Scientific Leadership <ul style="list-style-type: none"> – Appropriate research leadership, with limited evidence of supporting and developing junior researchers (scope to strengthen team, environment, and collaborators) ■ Justification of Resources <ul style="list-style-type: none"> – Potentially more limited return on investment (resources requested, likelihood of project delivery, anticipated knowledge generation) – Resources broadly appropriate to deliver the proposal ■ Other: Ethical and/or governance issues are adequately considered 	2
Poor Quality	
<ul style="list-style-type: none"> ■ Scientific Quality and Impact <ul style="list-style-type: none"> – Poorly defined question – Methodologically weak study – Limited likelihood of new knowledge generation ■ Scientific Leadership <ul style="list-style-type: none"> – Poor research leadership, no evidence of supporting and developing junior researchers ■ Justification of Resources <ul style="list-style-type: none"> – Potentially poor return on investment ■ Other: Ethical and/or governance issues are not adequately considered 	1
Ineligible for funding	

Scoring Matrix for Expert Review Panel

Score Indicators	Fundable
10. Exceptional – Top international programme, or of exceptional national strategic importance	
<ul style="list-style-type: none"> ■ Quality <ul style="list-style-type: none"> – Highly original and innovative – Novel methodology and design – Outstanding research leadership (track record, team, environment, and collaborators are amongst the best in a broad field; excellent evidence of supporting junior researchers) ■ Impact <ul style="list-style-type: none"> – Crucial scientific question or knowledge gap – Potential for high health and/or socioeconomic impact – Internationally unique resource of value to many disciplines ■ Productivity <ul style="list-style-type: none"> – Potential for high return on investment – Very high likelihood of successful delivery (risks well managed) 	Fundable
9. Excellent – Internationally competitive and leading edge in most areas	
<ul style="list-style-type: none"> ■ Quality <ul style="list-style-type: none"> – Original and innovative – Novel methodology and design – Excellent research leadership (track record, team, environment, and collaborators e.g. among the best in a specialist area; excellent evidence of supporting junior researchers) ■ Impact <ul style="list-style-type: none"> – Crucial scientific question or knowledge gap – Potential for high health and/or socioeconomic impact – Internationally significant resource of value to many disciplines ■ Productivity <ul style="list-style-type: none"> – Potential for high return on investment – Very high likelihood of successful delivery (risks well managed) 	Fundable
8. Very High Quality – Internationally competitive and leading edge nationally	
<ul style="list-style-type: none"> ■ Quality <ul style="list-style-type: none"> – Original and innovative – Robust methodology and design (innovative in parts) – Excellent research leadership (track record, team, environment, and collaborators; good evidence of supporting junior researchers) ■ Impact <ul style="list-style-type: none"> – Crucial scientific question or knowledge gap or area of strategic importance to the UK – Potential for high health and /or socioeconomic impact – Resource of value to many disciplines ■ Productivity <ul style="list-style-type: none"> – Potential for significant return on investment – Very high likelihood of successful delivery (risks well-managed) 	Fundable

7. High Quality – Leading edge nationally and internationally competitive in parts	
<ul style="list-style-type: none"> ■ Quality <ul style="list-style-type: none"> – Innovative – Robust methodology and design (innovative in parts) – Strong research leadership (track record, team, environment, and collaborators; good evidence of supporting junior researchers) ■ Impact <ul style="list-style-type: none"> – Key scientific question or knowledge gap or area of strategic importance to the UK – Potential for significant health and/or socioeconomic impact – Valuable scientific resource ■ Justification of Resources <ul style="list-style-type: none"> – Potential for significant return on investment - High likelihood of successful delivery 	Fundable
6. High Quality – Leading edge nationally, but not yet internationally competitive	
<ul style="list-style-type: none"> ■ Quality <ul style="list-style-type: none"> – Methodologically robust study – Good research leadership (track record, team, environment, and collaborators; some evidence of supporting junior researchers) ■ Impact <ul style="list-style-type: none"> – Worthwhile scientific question or knowledge gap – Justifiable scientific resource – Potential for reasonable health and/or socioeconomic impact ■ Productivity <ul style="list-style-type: none"> – Resources appropriate to deliver the proposal – High likelihood of successful delivery 	Fundable
5. Good Quality – Nationally competitive	
<ul style="list-style-type: none"> ■ Quality <ul style="list-style-type: none"> – Methodologically sound study but areas require significant revision – Leadership not optimal (track record, scope to strengthen team and/or collaborators; environment; some evidence of supporting junior researchers) – Poorly defined question ■ Impact <ul style="list-style-type: none"> – Worthwhile scientific question with potentially useful outcomes – Moderate likelihood of contributing to new knowledge generation ■ Productivity <ul style="list-style-type: none"> – Resources broadly appropriate to deliver the proposal – Good likelihood of successful delivery 	Not fundable
4. Potentially Useful – With significant weaknesses	

<ul style="list-style-type: none"> ■ Quality <ul style="list-style-type: none"> – Methodologically sound study (approach or study design requires significant revision) – Some Leadership potential (track record/environment not optimal; limited evidence of supporting junior researchers) ■ Impact <ul style="list-style-type: none"> – Contains potentially useful ideas but requires major revision – Moderate likelihood of successful delivery ■ Productivity <ul style="list-style-type: none"> – Resources inappropriate to deliver the proposal – Unlikely to significantly contribute to new knowledge generation 	Not fundable
3. Potentially Useful – With major weaknesses	
<ul style="list-style-type: none"> ■ Quality <ul style="list-style-type: none"> – Question poorly defined – Methodologically weak study – Poor leadership ■ Productivity <ul style="list-style-type: none"> – Unlikely to contribute to new knowledge generation 	Not fundable
2. Poor quality science, bordering on unacceptable	
1. Unacceptable quality or has serious ethical concerns	
0. Ineligible for funding	