

**REVIEW FORUM** Corresponding Author

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- ✓ 1. Initial Validation
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**LhARA: The Laser-hybrid Accelerator for Radiobiological Applications**

Galen Aymar, Tobias Becker, [Stewart Boogert](#), Marco Borghesi, Robert Bingham, Ceri Brenner, Philip N Burrows, Oliver C Ettlinger, [Titus-Stefan Dascalu](#), Stephen Gibson, Timothy Greenshaw, Sylvia Gruber, Dorothy Gujral, Claire Hardiman, Jonathan Hughes, W Gareth Jones, Karen Kirkby, Ajit Kurup\* , Jean-Baptiste Lagrange, [Kenneth Richard Long\\*](#) , Wayne Luk, John Matheson, Paul McKenna, [Ruth Mclauchlan](#), Zulfikar Najmudin, Hin Tung Lau, [Jason Luke Parsons](#), Jaroslaw Pasternak, Juergen Pozimski, [Kevin Prise](#), [Monika Puchalska](#), Peter Ratoff, [Giuseppe Schettino](#), William Shields, Susan Smith, John Thomason, Stephen Towe, Peter Weightman, Colin Whyte and Rachel Xiao

**Original Research, Front. Phys. – Medical Physics and Imaging**

Received on: 30 May 2020, Edited by: [Vincenzo Patera](#)

Manuscript ID: 567738

Research Topic: [Applied Nuclear Physics at Accelerators](#)

Keywords: Radiobiology, Novel acceleration, proton beam therapy (PBT), ion beam therapy, Laser-driven ...

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**ON TIME**

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History

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**Reviewer 2**

Independent review report submitted: 04 Jul 2020

Interactive review activated: 09 Jul 2020

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**EVALUATION**

**Q 1** Please summarize the main findings of the study.

Reviewer 2 | 07 Jul 2020 | 11:07 #1

There are not "main finding": the paper is more a technical report on a facility planned to be realised. English is perfect and reported information are oversized as respect a scientific paper

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KL; 10Jul20: No action.

**Q 2** Please highlight the limitations and strengths.

Reviewer 2 | 07 Jul 2020 | 11:07 #1

Limitations and strengths are reported in the attached file

[Review supporting file - 47477](#)

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KL; 10Jul20: No action.

**Q 3** Please comment on the methods, results and data interpretation. If there are any objective errors, or if the conclusions are not supported, you should detail your concerns.

Reviewer 2 | 07 Jul 2020 | 11:07 #1

The paper report the status of development of the LhARA project. It appears as a technical report more than a scientific paper so the strong recommendation s to change the format, removing unuseful technician section while going directly inside the scientific points

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KL; 10Jul20: Hmm; push back in letter.

**Q 4** Check List

Reviewer 2 | 07 Jul 2020 | 11:07 #1

- Is the English language of sufficient quality?
  - Yes
- Is the quality of the figures and tables satisfactory?
  - Yes
- Does the reference list cover the relevant literature adequately and in an unbiased manner?
  - Yes
- Are the statistical methods valid and correctly applied? (e.g. sample size, choice of test)
  - Not Applicable
- Are the methods sufficiently documented to allow replication studies?
  - No
- Are the data underlying the study available in either the article, supplement, or deposited in a repository? (Sequence/expression data, protein/molecule characterizations, annotations, and taxonomy data are required to be deposited in public repositories prior to publication)
  - Not Applicable
- Does the study adhere to ethical standards including ethics committee approval and consent procedure?
  - Yes
- Have standard biosecurity and institutional safety procedures been adhered to?
  - Yes

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**Q 5** Please provide your detailed review report to the editor and authors (including any comments on the Q4 Check List):

Reviewer 2 | 07 Jul 2020 | 11:07 #1

I am trying to upload the pdf version of the paper with correction but network errors occur. I will send the file separately to the editors.

[Review supporting file - 48170](#)

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QUALITY ASSESSMENT

<b>Q 6</b> Originality	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<b>Q 7</b> Rigor	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<b>Q 8</b> Significance to the field	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<b>Q 9</b> Interest to a general audience	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<b>Q 10</b> Quality of the writing	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<b>Q 11</b> Overall quality of the study	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

REVISION LEVEL

**Q 12** What is the level of revision required based on your comments:

Reviewer 2 | 07 Jul 2020 | 11:07 #1

Substantial revisions

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KL; 10Jul20: Push back in cover letter.

KL; 10Jul20: No action.

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