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# Journal Pre-proof



COVID-19 Outbreak and Cancer Radiotherapy Disruption in Lombardy, Northern Italy

B.A. Jereczek-Fossa, M.F. Palazzi, C.P. Soatti, L.F. Cazzaniga, G.B. Ivaldi, M. Pepa, M. Amadori, P. Antognoni, S. Arcangeli, A. Buffoli, G. Beltramo, S. Berlinghieri, M. Bignardi, S. Bracelli, L. Bruschi, S. Castiglioni, G. Catalano, N. Di Muzio, C. Fallai, L. Fariselli, A.R. Filippi, A. Gramaglia, C. Italia, F. Lombardi, S.M. Magrini, S. Nava, E. Orlandi, N. Pasinetti, E.L. Sbicego, L. Scandolaro, M. Scorsetti, F. Stiglich, S. Tonoli, R. Tordini, R. Valdagni, V. Vavassori, G. Marvaso, on behalf of the CODRAL (Board of Directors of Radiation Oncology Departments in Lombardy) network

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1 guarantor of integrity of the entire study: BAJF, MP, GM

2 study concepts and design: BAJF, GM, MP, MFP, CPS, LFC, GBI

3 literature research: BAJF, GM

4 clinical studies: N/A

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6 statistical analysis: BAJF, MFP, CPS, LFC, GBI, MP, GM

7 manuscript preparation: all authors

8 manuscript editing: all authors

**COVID-19 OUTBREAK AND CANCER RADIOTHERAPY DISRUPTION****in Lombardy, Northern Italy****Authors**

Barbara Alicja Jereczek-Fossa<sup>1,2,\*</sup>, Mauro Filippo Palazzi<sup>3,\*</sup>, Carlo Pietro Soatti<sup>4</sup>, Luigi Franco Cazzaniga<sup>5</sup>, Giovanni Battista Ivaldi<sup>6</sup>, Matteo Pepa<sup>1,#</sup>, Marcello Amadori<sup>7</sup>, Paolo Antognoni<sup>8</sup>, Stefano Arcangeli<sup>9</sup>, Alberto Buffoli<sup>10</sup>, Giancarlo Beltramo<sup>11</sup>, Stefania Berlinghieri<sup>12</sup>, Mario Bignardi<sup>13</sup>, Stefano Bracelli<sup>14</sup>, Lorenza Bruschieri<sup>15</sup>, Simona Castiglioni<sup>16</sup>, Gianpiero Catalano<sup>17</sup>, Nadia Di Muzio<sup>18</sup>, Carlo Fallai<sup>19</sup>, Laura Fariselli<sup>20</sup>, Andrea Riccardo Filippi<sup>21</sup>, Alberto Gramaglia<sup>22</sup>, Corrado Italia<sup>23</sup>, Fabrizio Lombardi<sup>19</sup>, Stefano Maria Magrini<sup>24</sup>, Simonetta Nava<sup>25</sup>, Ester Orlandi<sup>26</sup>, Nadia Pasinetti<sup>27</sup>, Elena Lara Sbicego<sup>28</sup>, Luciano Scandolaro<sup>29</sup>, Marta Scorsetti<sup>30</sup>, Francesco Stiglich<sup>31</sup>, Sandro Tonoli<sup>32</sup>, Roberto Tordini<sup>33</sup>, Riccardo Valdagni<sup>2,19</sup>, Vittorio Vavassori, and Giulia Marvaso<sup>1,2</sup>, *on behalf of the CODRAL (Board of Directors of Radiation Oncology Departments in Lombardy) network*

**Affiliations**

1. Division of Radiation Oncology, IEO, European Institute of Oncology, IRCCS, Milano, Italy
2. Department of Oncology and Hemato-Oncology, University of Milan, Milano, Italy
3. Radiotherapy Unit, ASST Ospedale Niguarda, Milano, Italy
4. Radiation Oncology Center, Ospedale Manzoni, Lecco, Italy
5. Radiation Oncology Center, Ospedale Papa Giovanni XXIII, Bergamo, Italy
6. Radiation Oncology Center, Istituti Clinici Scientifici Maugeri, Pavia, Italy
7. Radiation Oncology Center, Ospedale C. Poma, Mantova, Italy;
8. Radiation Oncology Center, Ospedale di Circolo e Fondazione Macchi, ASST dei Sette Laghi, Varese, Italy
9. Department of Radiation Oncology, Policlinico S. Gerardo and University of Milan "Bicocca", Milano, Italy
10. Radiation Oncology Center, Istituto Clinico S. Anna, Brescia, Italy
11. Radiation Oncology Center, Centro Diagnostico Italiano (CDI), Milano, Italy
12. Unit of Radiotherapy, Ospedale di Esine - ASL Vallecamonica-Sebino, Esine, Italy
13. Radiation Oncology Center, Fondazione Poliambulanza, Brescia, Italy
14. Radiation Oncology Center, Ospedale, Busto Arsizio, Italy

15. Division of Radiation Oncology, Ospedale di Treviglio, Caravaggio di Treviglio, Italy
16. Radiation Oncology Center, S. Pio X-Humanitas, Milano, Italy
17. Radiation Oncology Center, IRCCS Ospedale Multimedica, Sesto San Giovanni/Castellanza, Italy
18. Radiation Oncology Center, IRCCS Ospedale S. Raffaele and University Vita Salute, Milano, Italy
19. Division of Radiotherapy, Fondazione IRCCS Istituto Nazionale dei Tumori, Milano, Italy
20. Radiotherapy Unit, Fondazione IRCCS Istituto Neurologico Carlo Besta, Milano, Italy
21. Division of Radiotherapy, Fondazione IRCCS Policlinico San Matteo and University of Pavia, Pavia, Italy
22. Radiation Oncology Center, Policlinico, Monza, Italy
23. Radiation Oncology Center, Istituti Ospedalieri Bergamaschi, Ponte S. Pietro-Zingonia, Italy
24. Radiation Oncology Center, Brescia University Radiation Oncology Department, O. Alberti Radium Institute, Spedali Civili Hospital, Brescia, Italy
25. Radiation Oncology Center, Istituti Clinici di Pavia e Vigevano, Vigevano, Italy
26. Radiation Oncology Center, CNAO, Pavia, Italy
27. Radiation Oncology Department, Esine and University of Brescia, Esine, Italy
28. Radiation Oncology Center, Istituto Clinico Sant'Ambrogio, Milano, Italy
29. Radiation Oncology Center, Ospedale Sant'Anna, ASST Lariana, Como, Italy
30. Humanitas Clinical and Research Hospital - IRCCS, Radiotherapy and Radiosurgery Dept and Humanitas University, Department of Biomedical Sciences, Rozzano, Italy
31. Radiation Oncology Center, Ospedale, Sondrio, Italy
32. Radiation Oncology Center, Ospedale, Cremona, Italy
33. Ospedale di Casalpusterlengo, Azienda Ospedaliera della Provincia di Lodi, Casalpusterlengo, Italy
34. Unit of Radiotherapy, Cliniche Gavezzen SPA, Bergamo, Italy

\* co-first authors

# corresponding author

Matteo Pepa  
Division of Radiotherapy

IEO European Institute of Oncology IRCCS  
Via Ripamonti, 435, Milan, Italy  
[matteo.pepa@ieo.it](mailto:matteo.pepa@ieo.it)

Journal Pre-proof

## COVID-19 Outbreak and Cancer Radiotherapy Disruption in Lombardy, Northern Italy

*Madam* — Italy has been experiencing one of the world's deadliest COVID-19 outbreaks, and all healthcare facilities, including radiotherapy departments, have faced the unprecedented emergency. In order to investigate how radiotherapy directors in Lombardy (northern Italy) have managed the crisis, an online questionnaire (27 questions) via Google Forms, based on the first published COVID-19 reports, was sent to 34 CODRAL (Board of Directors of Radiation Oncology Departments in Lombardy) directors. Thirty-one (91%) specialists anonymously completed the survey. Within a few days of the outbreak, more than 75% of hospitals became COVID-19 centres. Following institutional indications, more than 80% of directors decided to interrupt or modify radiotherapy for some pathologies, preferring short treatments and home assistance where possible. About a half of centres reduced their clinical activity by 10–50%. Most hospitals (84%) cancelled out-patient follow-up visits and some (68%) activated telematic consultations. Triage procedures were adopted in virtually all centres. Almost a half of centres registered COVID-19-positive or suspected patients, and for some of them treatment was suspended. Nearly all radiotherapy centres declared that they would provide healthcare staff with surgical masks and gloves, while only a few of them also made other personal protective equipment available, including class II and III filtering facepieces (FFP2 and FFP3). Working from home solutions were adopted in about 30% of facilities. More than a half of centres had personnel in quarantine (between one and 12 persons off service). A considerable proportion of hospitals activated psychological support for patients and/or personnel. Our report shows how Lombardy radiotherapy departments have rapidly coped with the COVID-19 disruption. Significant reorganisation has been carried out in a short time with conversion to COVID-19 activities (wards, physicians transfer) and changes in radiotherapy practice. The priority was a balance between cancer patient care and safety, while protecting the healthcare professionals and providing any possible support in COVID-19 activities.

B.A. Jereczek-Fossa \*†1, M.F. Palazzi †1, C.P. Soatti §, L.F. Cazzaniga ||, G.B. Ivaldi ¶, M. Pepa \*, M. Amadori \*\*, P. Antognoni ††, S. Arcangeli ‡‡, A. Buffoli §§, G. Beltramo ||||, S. Berlinghieri ¶¶, M. Bignardi \*\*\*, S. Bracelli †††, L. Bruschi ‡‡‡, S. Castiglioni §§§, G. Catalano |||||, N. Di Muzio ¶¶¶, C. Fallai \*\*\*\*, L. Fariselli ††††, A.R. Filippi ‡‡‡‡, A. Gramaglia §§§§, C. Italia |||||, F. Lombardi \*\*\*\*, S.M. Magrini ¶¶¶¶, S. Nava \*\*\*\*\*, E. Orlandi †††††, N. Pasinetti ‡‡‡‡‡, E.L. Sbicego §§§§§, L. Scandolaro |||||, M. Scorsetti ¶¶¶¶¶, F. Stiglich \*\*\*\*\*, S. Tonoli ††††††, R. Tordini ‡‡‡‡‡‡, R. Valdagni †\*\*\*\*, V. Vavassori §§§§§§, G. Marvaso \*† on behalf of the CODRAL (Board of Directors of Radiation Oncology Departments in Lombardy) network

\* *Division of Radiation Oncology, IEO, European Institute of Oncology, IRCCS, Milano, Italy*

† *Department of Oncology and Hemato-Oncology, University of Milan, Milano, Italy*

‡ *Radiotherapy Unit, ASST Ospedale Niguarda, Milano, Italy*

§ *Radiation Oncology Center, Ospedale Manzoni, Lecco, Italy*

|| *Radiation Oncology Center, Ospedale Papa Giovanni XXIII, Bergamo, Italy*

¶ *Radiation Oncology Center, Istituti Clinici Scientifici Maugeri, Pavia, Italy*

\*\* *Radiation Oncology Center, Ospedale C. Poma, Mantova, Italy*

†† *Radiation Oncology Center, Ospedale di Circolo e Fondazione Macchi, ASST dei Sette Laghi, Varese, Italy*

‡‡ *Department of Radiation Oncology, Policlinico S. Gerardo and University of Milan "Bicocca", Milano, Italy*

§§ *Radiation Oncology Center, Istituto Clinico S. Anna, Brescia, Italy*

|||| *Radiation Oncology Center, Centro Diagnostico Italiano (CDI), Milano, Italy*

¶¶ *Unit of Radiotherapy, Ospedale di Esine - ASL Vallecamonica-Sebino, Esine, Italy*

\*\*\* *Radiation Oncology Center, Fondazione Poliambulanza, Brescia, Italy*



- ††† Radiation Oncology Center, Ospedale, Busto Arsizio, Italy
- ††† Division of Radiation Oncology, Ospedale di Treviglio, Caravaggio di Treviglio, Italy
- §§§ Radiation Oncology Center, S. Pio X-Humanitas, Milano, Italy
- |||| Radiation Oncology Center, IRCCS Ospedale Multimedica, Sesto San Giovanni/Castellanza, Italy
- ¶¶¶ Radiation Oncology Center, IRCCS Ospedale S. Raffaele and University Vita Salute, Milano, Italy
- \*\*\*\* Division of Radiotherapy, Fondazione IRCCS Istituto Nazionale dei Tumori, Milano, Italy
- †††† Radiotherapy Unit, Fondazione IRCCS Istituto Neurologico Carlo Besta, Milano, Italy
- †††† Division of Radiotherapy, Fondazione IRCCS Policlinico San Matteo and University of Pavia, Pavia, Italy
- §§§§ Radiation Oncology Center, Policlinico, Monza, Italy
- ||||| Radiation Oncology Center, Istituti Ospedalieri Bergamaschi, Ponte S. Pietro-Zingonia, Italy
- ¶¶¶¶ Radiation Oncology Center, Brescia University Radiation Oncology Department, O. Alberti Radium Institute, Spedali Civili Hospital, Brescia, Italy
- \*\*\*\*\* Radiation Oncology Center, Istituti Clinici di Pavia e Vigevano, Vigevano, Italy
- ††††† Radiation Oncology Center, CNAO, Pavia, Italy
- ††††† Radiation Oncology Department, Esine and University of Brescia, Esine, Italy
- §§§§§ Radiation Oncology Center, Istituto Clinico Sant'Ambrogio, Milano, Italy
- |||||| Radiation Oncology Center, Ospedale Sant'Anna, ASST Lariana, Como, Italy
- ¶¶¶¶¶ Humanitas Clinical and Research Hospital - IRCSS, Radiotherapy and Radiosurgery Department and Humanitas University, Department of Biomedical Sciences, Rozzano, Italy
- \*\*\*\*\* Radiation Oncology Center, Ospedale, Sondrio, Italy
- †††††† Radiation Oncology Center, Ospedale, Cremona, Italy
- †††††††† Ospedale di Casalpusterlengo, Azienda Ospedaliera della Provincia di Lodi, Casalpusterlengo, Italy
- §§§§§§ Unit of Radiotherapy, Cliniche Gavezzeni SPA, Bergamo, Italy

1Co-first authors.

**Declaration of interests**

The authors declare that they have no known competing financial interests or personal relationships that could have appeared to influence the work reported in this paper.

The authors declare the following financial interests/personal relationships which may be considered as potential competing interests: