

attractive option for the thoracic surgeon.⁵ The creation of a 3D model of bone structures extracted from CT image data also provides an adequate visualization of the defect in the preoperative surgical evaluation and in the careful planning of the repair. This offers the advantage that intraoperative errors can be rectified in the preoperative period without having to resolve them during surgery.

The prosthesis in our patient was fitted exactly and symmetrically to the patient's ribcage and no additional fixation maneuvers were necessary. It also matched the shape and contour of the patient's chest wall and provided a strong but flexible structural support, with excellent esthetic results, achieving a normal appearance and allowing maximum postoperative movement capacity. The patient tolerated the procedure well and his symptoms improved significantly in the immediate postoperative period.

In this way, the prosthesis used represents a novel design that safely protects the underlying organs, with an excellent esthetic result, which confirms the high standard and remarkable qualities of this type of prosthesis for complex reconstructions of the chest wall. According to Moradiellos et al.,⁶ the manufacturing cost is the main disadvantage in this type of surgery.

Funding

The author(s) received no financial support for the research, authorship, and/or publication of this article.

Conflict of interest

The author(s) declared no potential conflicts of interest with respect to the research, authorship, and/or publication of this article.

REFERENCES

1. Mansour KA, Thourani VH, Losken A, et al. Chest wall resections and reconstruction: a 25-year experience. *Ann Thorac Surg.* 2002;73:1720-5.
2. Kamel M, Port J, Altorki NK. Sternal resections: new materials for reconstruction. *Curr Surg Rep.* 2015;3:16.
3. Seder CW, Rocco G. Chest wall reconstruction after extended resection. *J Thorac Dis.* 2016;8:863-71.
4. Aranda JL, Jiménez MF, Rodríguez M, et al. Tridimensional titanium-printed custom-made prosthesis for sternocostal reconstruction. *Eur J Cardiothorac Surg.* 2015;48:92-4.
5. Kamel MK, Cheng A, Vaughan B, et al. Sternal reconstruction using customized 3D-printed titanium implants. *Ann Thorac Surg.* 2020;109:411-4.
6. Moradiellos J, Amor S, Córdoba M, Rocco G, Vidal M, Varela A. Functional chest wall reconstruction with a biomechanical three-dimensionally printed implant. *Ann Thorac Surg.* 2017;103:389-91.

Mario Eduardo Francisco Bustos^a, Manuel España^a, Siri Juan^b, Ignacio Sastre^a

^aDepartment of Thoracic Surgery, Hospital Privado Universitario de Córdoba, Córdoba 5000, Argentina

^bDepartment of Anesthesiology, Hospital Privado Universitario de Córdoba, Córdoba 5000, Argentina

*Corresponding author.

E-mail address: marioefb@gmail.com (M.E.F. Bustos).

<http://dx.doi.org/10.1016/j.cireng.2021.11.024>
2173-5077/

© 2021 AEC. Published by Elsevier España, S.L.U. All rights reserved.

Short term effects of an initial COVID-19 outbreak on breast cancer care. A brief report[☆]



Efectos a corto plazo de un brote inicial de COVID-19 en la atención del cáncer de mama

The pillars of Breast cancer (BC) care in Catalonia are a well established population screening programme (PSP), as well as an optimal performance of the Breast Units that harmonize the relative contribution from the involved departments. As of mid March 2020, covid pandemic was hitting hard on the catalan population (7.7 million), and a complete lockdown was decreed by the spanish government on March 14 (Fig. 1).¹ At

this stage, most public hospitals and primary care centres were being strongly devoted to covid-19 patient care in the region, while a great deal of the usual non-covid health assistance was being put on hold.² Thus, our PSP was halted from March 16,2020 to May 18, 2020. In the present investigation we aimed to ascertain the actual impact of such a deprived time on the care of patients with a new or recent

[☆] Please cite this article as: Barco Nebreda I, García-Fernández A, Menchen Palau L, Giménez Gómez N, Fraile López-Amor M. Efectos a corto plazo de un brote inicial de COVID-19 en la atención del cáncer de mama. *Cir Esp.* 2022. <https://doi.org/10.1016/j.ciresp.2021.10.017>

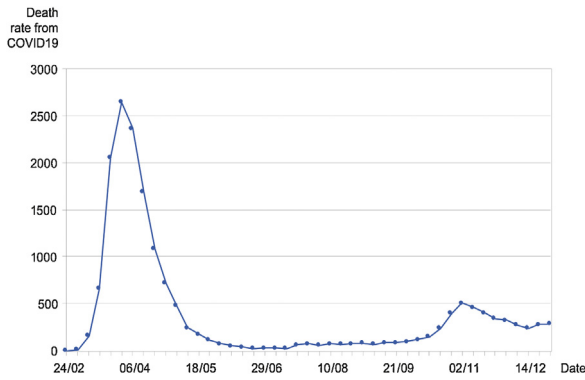


Fig. 1 – Weekly death rate from covid 19 in Catalonia (March to December 2020).

diagnosis of BC, especially focusing on the initial diagnostic procedures, and surgery.

This study was restricted to two public university hospitals of Terrassa (Barcelona). The overall population in the joined catchment area exceeds 400.000 inhabitants. The shared local PSP was established in 2000, and had been operating uneventfully until March 2020. During the previous five years, there had been a stable rate of newly diagnosed cases BC emerging from the same demographic base, at a mean rate of 350 new cases per year.

Patient culling was achieved by screening the breast committee reports, as well as the pathology database for core-biopsy results positive for BC. From March 15, 2020 until September 30, 2020 (study period), subjects were registered in this study following one of these criteria: first outpatient visit with a new BC diagnosis, primary surgical procedure for BC, post-neoadjuvant surgical procedure for BC, or had been put on a neoadjuvant chemotherapy regime. We excluded patients with a BC diagnosis or treatment outside the study period, as well as elderly patients unfit for conventional treatment, and patients with stage IV disease at onset.

The study period was selected in order to accommodate the first covid-19 outbreak and short of the second outbreak, occurring in October 2020, such that any significant change in this patient series, as compared with the control series one year previously, would reflect the short term effects of the first outbreak on BC care.

Variable results from the study were compared with the corresponding results from a control group of patients, from March 15, 2019 until September 30, 2019.

Overall, 104 patients were registered into the 2020 study group. This compares with 171 patients in the 2019 control group, for a decrease of 39,2% in BC care activity. The corresponding figures for new BC cases were 73 and 127 patients respectively, for a decrease of 41.7%. The 2019 count of BC cases in the control period was not a far cry from the expected half-year count. The rate of decrease in the 2020 BC care activity was most dramatic during the first eight weeks,

Table 1 – Comparative analysis of the relevant variables between the study and control breast cancer patients group.

	Control group-2019 N = 171	Study group-2020 N = 104	P value
Patient Age – mean ± SD	58 ± 13	60 ± 14	.486
First degree family history of BC: yes/no	30/85	81/73	.001
Study entry: First visit	127	73	.343
Surgery	15	11	
Post-chemotherapy surgery	23	16	
Primary chemotherapy	5	4	
Diagnosis: BC clinical	124	78	.380
Screening programme	47	26	
Biopsy diagnosis			.022
DCIS	27	7	
Invasive carcinoma	144	95	
T Stage: T1	74	43	.384
T2	67	41	
T3	10	10	
Preoperative nodal stage			0.217
Negative	86	59	
Positive	67	36	
Clinical stage: 0	26	7	.842
I	58	35	
IIA	48	30	
IIB	23	15	
III	10	14	
Phenotype: Luminal A	64	25	.061
Luminal B	64	41	
Her2 +	13	15	
Triple negative	19	15	
Surgical procedure			0.416
Mastectomy	43	21	
Conservative	128	70	

BC, Breast cancer.

then leveling off by the 28th week, although no clear recovery was evident by that time yet.

The Table 1 shows a comparative analysis of the relevant variables between the study and control subjects.

The ominous covid-19 pandemic is bound to have profound effects on many aspects of Health Care worldwide. Due to its high prevalence in the western world, BC is of much concern under the present circumstances.³ Early BC diagnosis together with the improved women's awareness of the disease has led to a marked improvement of prognosis, with a present survival rate of 84% at 5 years.⁴ In order to meet these goals, a well-built armamentarium has been deployed, including PSP, and an enhanced use of ultrasound scans (US), Magnetic Resonance Imaging (MRI), Core-needle biopsy, ever more conservative surgical procedures, improved radiation therapy, and updated systemic therapy. Much of such mindset and deployed resources seem at jeopardy during an initial covid-19 outbreak. Potential BC patients may refrain from consultation in the first place under the belief that hospitals are a source of infection.⁵ The results from our investigation points to a drop of about 39% in overall BC care activity and about 42% in newly diagnosed cases. In general, the lack of significant differences between the study and control groups suggests that patients attending our hospitals during and shortly after the first outbreak did not have a more advanced disease stage, as perhaps one might have expected. A significant decrease of DCIS rate during the study period seems clearly related to the halting of our PSP for several weeks. More difficult to explain is the higher rate of a family history of BC among study patients. Having first degree relatives with BC may have prompted them to seek medical care. Regarding BC patients actually being cared for, there seems not to have been any significant delay in diagnosis or treatment in the short term. However, more intriguing and perhaps worrying is the lack of information concerning those patients that went missing during the initial outbreak, lasting until late May (Fig. 1), who had not shown-up significantly by the end of September 2020, just prior to the second outbreak.

REFERENCES

1. Official statistics of Catalonia. Incidència setmanal COVID-19. Institut d'Estadística de Catalunya. [accessed 16 May 2021]. <https://www.idescat.cat>.

2. Curigliano G, Cardoso MJ, Poortmans P, Gentilini O, Pravettoni G, Mazzocco K, et al. Recommendations for triage, prioritization and treatment of breast cancer patients during the COVID-19 pandemic. *Breast*. 2020;52:8-16. <http://dx.doi.org/10.1016/j.breast.2020.04.006>.
3. Petrova D, Pérez-Gómez B, Pollán M, Sánchez MJ. Implications of the COVID-19 pandemic for cancer in Spain. *Med Clin (Engl Ed)*. 2020;155:263-6. <http://dx.doi.org/10.1016/j.medcle.2020.04.018>.
4. Izquierdo A, Gispert R, Saladie F, Espinàs JA. Analysis of cancer incidence, survival and mortality according to the main tumoral localizations, 1985-2019: Breast cancer. *Med Clin (Barc)*. 2008;131 Suppl 1:50-2. [http://dx.doi.org/10.1016/s0025-7753\(08\)76433-9](http://dx.doi.org/10.1016/s0025-7753(08)76433-9).
5. Li J, Wang H, Geng C, Liu Z, Lin Y, Nie J, et al. Suboptimal declines and delays in early breast cancer treatment after COVID-19 quarantine restrictions in China: a national survey of 8397 patients in the first quarter of 2020. *EclinicalMedicine*. 2020;26:100503. <http://dx.doi.org/10.1016/j.eclinm.2020.100503>.

Israel Barco Nebreda^{a*}, Antonio García-Fernández^a, Lidia Menchen Palau^b, Nuria Giménez Gómez^{cd}, Manel Fraile López-Amor^e

^aUnidad de Mama, Departamento de Ginecología, Hospital Universitario Mútua Terrassa, Universidad de Barcelona, Terrassa, Spain

^bUnidad de Mama, Departamento de Ginecología, Hospital de Terrassa, Consorcio Sanitario de Terrassa, Terrassa, Spain

^cHospital Sant Jaume de Calella, Laboratori de Referència de Catalunya y Corporació de Salut del Maresme i la Selva, Calella, Spain

^dLaboratori de Toxicologia, Universitat Autònoma de Barcelona, Bellaterra, Spain

^eDepartamento de Medicina Nuclear, Hospital Universitario Mútua Terrassa, Universidad de Barcelona, Terrassa, Spain

*Corresponding author. ibarco@mutuaterrassa.es (I. Barco Nebreda).

<http://dx.doi.org/10.1016/j.cireng.2022.04.009>
2173-5077/

© 2021 AEC. Published by Elsevier España, S.L.U. All rights reserved.

Mammary-like gland perianal adenocarcinoma

Adenocarcinoma sobre glándula de tipo mamario perianal



Mammary-like glands (MLG) are present in the skin of the anogenital region of women and men. Like normal breast tissue, they have the potential for degeneration and malignancy, and neoplasms have been described in this location, although very rarely. Due to their low incidence and

anomalous distribution, these neoplasms pose a diagnostic challenge and are usually an incidental finding, whose management is not widely defined or standardized.

We present the case of a 64-year-old woman, active smoker, with no other history of interest. During a routine examination,