

 \mathbf{CHOM}_{2024} Catalyst 21-22 October Beurs van Berlage, Amsterdam

Value Based Payment Model in Oncology: The Experience of **Developing Episode-Based Model for Breast Cancer in a Reference Cancer Center**

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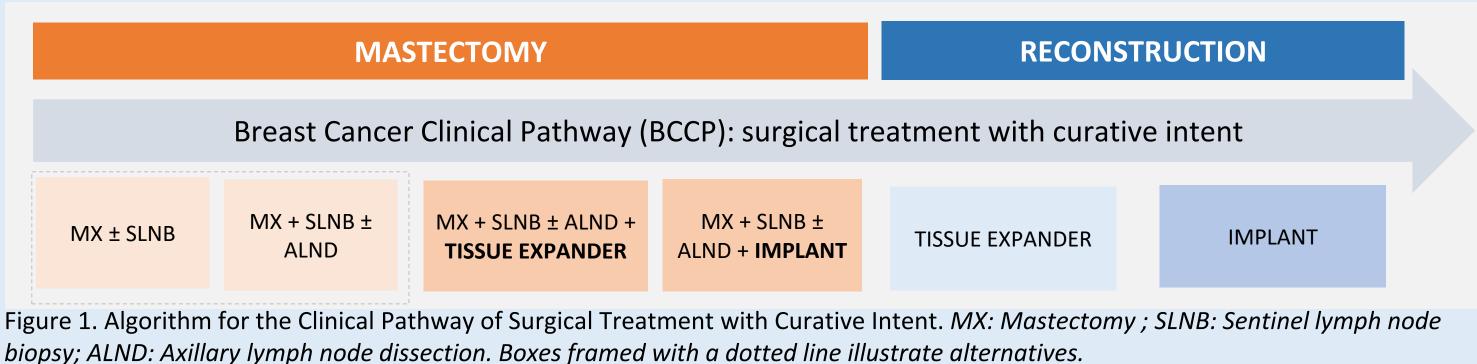
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Introduction

- Cancer costs for public insurer in Chile reach USD 1.58M annually (Espinoza et al., 2022).
- The public insurance (FONASA) provides financial coverage for the most prevalent diseases including some types of cancer through Law 19.966 (GES-AUGE).
- When public services are unable to meet demand, patients are referred to private providers. The Arturo Lopez Perez Foundation has provided care using this modality to approximately 3000 patients since 2018.
- FONASA reimburses private providers through a mixed payment system ullet(baskets of health services and fee for service).
- Patient care often becomes fragmented, since there is no incentives in place for continuity of care or improved health outcomes.
- The GES-AUGE reimburses breast reconstruction, but there are no set timeframe for completing this procedure. Hence, women are waiting for reconstruction (SENADO CHILE, 2024).
- Here, we present the development of a new reimbursement model aiming to address the challenges above based on the current available evidence and our breast cancer clinical pathways (BCCP).

Methods

- We conducted a literature review on the impact of reimbursement models on cancer care from January 2014 to December 2024.
- Based on our findings, we selected a bundled payment model for local testing and assessed its feasibility using the BCCP (Figure 1). •
- Historical patient data was analyzed to identify the different breast reconstruction pathways, estimate the expected costs, and develop episodes that factor in continuity of care.



Results

- Key characteristics of the main payment models assessed in our body of evidence are highlighted in Figure 2.
- A group of 1675 patients who underwent surgery between 2022 and 2023 was analyzed. •
- Three potential episodes for a bundled payment model for breast cancer reconstruction • are illustrated in Figure 3. The payment incentives should assure an explicit timeframe to complete the reconstruction.

Reconstruction		1rs Procedure	2nd Procedure	3rd Procedure	lotal (ost	Health outcomes	practice to promote	resources usea.		ordinating all rvices in the care	
	Delayed	MASTECTOMY ± ALND	RECONSTRUCTION	RECONSTRUCTION		~	favourable health results.		epi	isode.	
ОРТ	OPTION 1		+ TISSUE EXPANDER PLACEMENT	+ IMPLANT PLACEMENT		Pay-for-					
		USD 4.000 ± 1.150	USD 4.400	USD 3.314	USD 11.714 ± 1.150	Performance;DRG: Diagnosis-related group; BPM: Bundled Payments Mo					
OP		MASTECTOMY ± ALND + TISSUE	RECONSTRUCTION			Patients undergoing breast cancer surgery may face additional costs. These variations can impact the total cost					
	OPTION 2	EXPANDER PLACEMENT	+ IMPLANT PLACEMENT								
		USD 4.000 ± 1.150	USD 4.400		USD 7.714 ± 1.150 of the episode. These variations include:						
	mmediate							Cost variation			
		MASTECTOMY ± ALND + IMPLANT PLACEMENT				Meshes			\$ 1.600	\$ 2.286	
C	OPTION 3					Mammap	plasty (reduction/aug	mentation)	\$ 800	\$ 914	
						Mastope	ху		\$ 823		
		USD 4.000 ± 1.150			USD 4.000 ± 1.150	Bilateral	breast reconstruction	I	\$ 800		
F	Figure 3. Cost across episodes for breast cancer reconstruction							-	\$ 629	\$ 1.943	



Conclusions & Next Steps

- We have estimated the expected costs of three episodes in the breast cancer surgical reconstruction pathway. The payment system for each of them should explicitly state the timeframe for completing the reconstruction to achieve the desired outcomes.
- The BCCP serves as a tool to guide investigation in identifying value-driven interventions aimed to improve coordinated care, and correspondingly, patient outcomes. In this context, the BPM achieves the intended goal.
- Further work should focus on developing a health and cost indicator system, along with a follow-up process to track outcomes.
- Integrating other elements of the reconstruction pathway, such as the preoperative period, follow-up care, and the costs of potential adjuvant therapy, will ensure continuity of care and optimize the treatment process.

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