



“POORTI (a hindi word, which means fulfillment)” – An affordable & holistic ‘post-mastectomy kit’ to restore confidence, dignity and femininity of breast cancer survivors.

Breast cancer is the top most common cancer affecting women all over the world with 16,71,000 new cases being reported per year globally and India harbours around 9 % of this disease burden with 1,50,000 new cases being added to the list of existing patients every year (Globocan, 2012). Post-surgical rehabilitation of breast cancer patients after mastectomy (due to late detection) is an unmet need in many parts of the world. After four years of development and validation, we have created a single holistic platform aimed at delivering prosthetic needs of breast cancer patients following surgical intervention (modified radical mastectomy and radical mastectomy) by creating two solutions:



“Sampoorti” – An institution-centric product named as Sampoorti which is a mobile and concise suitcase comprising of prosthesis of different sizes and pocketed bras of different sizes with prosthesis covers, patient information forms and information brochures. This allows for any hospital or NGO to provide a pre-trial to the patient in order determine the prosthesis size and bra size which are most comfortable to the mastectomee. This also allows the patients to make a pre-informed choice before purchase. The larger vision behind Sampoorti is to allow hospitals to make the patients aware about breast prosthesis as a solution even before mastectomy is performed.

“Poorti” – a user-centric post mastectomy kit has been designed utilising a product co-evolution strategy where each component of the kit has been developed with iterative feedback as per the aspirations of the end user leading to both technical and anthropometric betterment than the available alternatives together with a one-minute product self-use video thereby dispensing the need of any external help. The kit comprises of a superlative design based light-weight pre-made silicone gel breast prosthesis (available in ten different sizes & two shapes as per the needs of the user), two pocketed brassieres (available in eight different sizes & two colours as per the needs of the user), two prosthesis covers, one prosthesis holder, information & usage manual & an outer waterproof kit which accommodates all the aforementioned components discreetly. CE certified silicone gel imported from Germany is used in our prosthesis. Additionally we cater to the recurring needs of pocketed bras & prosthesis covers.



For the societal integration of our innovation, we have formed a social enterprise named as Aarna Biomedical Products in March 2017 with the vision to offer high quality affordable and accessible solutions for unmet needs in the healthcare. We have our own patented manufacturing process and in-house production set-up at Translational Health Science and Technology Institute, Faridabad, India. Poorti has received great appreciation from patients and surgeons, numerous recognitions, news and media coverage and awards from various bodies. Biotechnology Industry Research Assistance Council (BIRAC), an offshoot of Department of Biotechnology and Foundation for Innovation and Social Entrepreneurship, an offshoot of Tata Trusts have supported us till date.

Our innovation has huge global prospects both for the government and private hospitals given the worldwide spread of breast cancer and huge disease burden. We are interested in exploring opportunities for the dissemination of Poorti within India and beyond.