# **CUSTOMER ACQUISITION PLANNING FOR NEW MEDICAL DEVICE**



f sgbiodesign in sgbiodesign

**HOST INSTITUTION:** 

GLOBAL AFFILIATE:



STANFORD BYERS CENTER FOR BIODESIGN

**CASE STUDY SERIES** 

# **AUTHOR**



Pooja Kinra Bishnoi

POOJA KINRA BISHNOI is a seasoned marketing professional with 15+ years of rich experience in healthcare and software industries.

She has extensive experience in the MedTech sector where she has led commercial strategies for a top global healthcare firm across US and APAC markets

She has spearheaded planning and execution of technology launches, customer engagement projects and commercial excellence initiatives across regions.

She is passionate about coaching and is actively involved in mentoring new MedTech ventures from various Entrepreneur programs across Singapore e.g. National University of Singapore and Singapore University of Technology and Design.

She has a Masters Degree in Global Management (Thunderbird University, Arizona, USA), an MBA in Marketing (SIMSR, Mumbai, India) and a Bachelors of Technology Degree in Computer Sciences.

# **CUSTOMER ACQUISITION** PLANNING FOR NEW MEDICAL DEVICE

This case study draws inspiration from a typical new product launch process of a medical device. The study seeks to outline the key steps and considerations in developing effective segment specific customer acquisition plans.



# 1. Background

### A. COMPANY

A global medical device company ("Company X") owns multiple businesses. One of its key business divisions focuses on orthopaedic implants and is a market leader in the orthopaedic segment. Locally, the company is a dominant player in the Trauma market, which consists of all orthopaedic implants used to fix broken bones from falls and accidents. The Trauma portfolio is extensive and has over 100 product lines across different anatomic regions.

Hip fractures are the second most common type of fracture. The elderly are particularly prone to hip fractures as they are at higher risk of losing balance and falling. While the younger population suffer from hip fractures as well, they are mostly due to vehicular accidents and sports injuries.

Company X is a local leader in the hip fracture fixation market. It currently has six product lines that can be used to fix hip fractures. One of the main product lines (P-LINE) is a dominant market leader in the femoral nail fixation segment in Singapore, with more than 70% unit market share and over 50% dollar market share.

Globally, Company X recently launched a new line of titanium nails (T-LINE) for hip fracture fixation, which is an advanced technology to address hip fractures. To successfully introduce T-LINE to the Singapore market, the company required a comprehensive plan for market introduction and customer acquisition.

#### **B. NEW INNOVATIVE TECHNOLOGY**

An orthopaedic nail is a hip fracture device that is made of a biocompatible metal, which is introduced into the femoral canal with a set of instruments. The nail is kept in place inside the femoral (thigh bone) shaft using small screws. In addition, there is a large blade that rides up to the femoral head i.e. the ball of the ball and socket joint; and helps in load bearing i.e. takes the person's weight when the person stands up or walks. (Figure 1)

T-LINE is a first-to-market technology with multiple first-to-market design advancements. In Singapore, hip fracture patients tend to be older and lighter, and have narrower bone structures. This makes T-Line relevant to the Singapore market, with the following key features and benefits:

- 1. New bolt design that allows for bone cement to be injected into the femoral head to enhance fixation, especially in poor-quality bone:
- 2. New alloy material that allows the nail to be thinner and bent for easier insertion into thinner femoral canals; and
- 3. Streamlined, light and ergonomic instrument set.

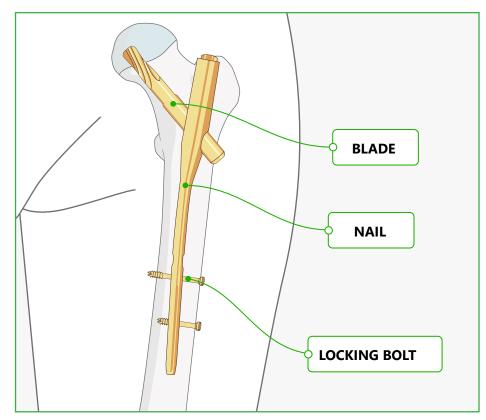


FIGURE 1: A Typical Hip Fracture Fixed with an Orthopaedic Nail

#### C. MARKET LANDSCAPE

The local market for hip fracture fixation is fragmented, with multiple solutions available for different types of fracture patterns. Surgeons' choice of suitable hip fracture solutions is based on various factors. These include the type of fracture pattern, bone quality status, age of patient and price considerations. Familiarity with and confidence in the brands and companies offering the solutions can also influence the surgeons' decisions.

As Figure 2 shows, hip fracture fixation solutions fall largely into the following three segments:

- 1. Screws Three screws usually placed in femoral neck fractures;
- 2. Femoral Plates Metal plates made of alloys of steel or titanium for femoral shaft fractures: and
- 3. Femoral Nails Metal rods made of alloys of steel or titanium for femoral neck fractures.

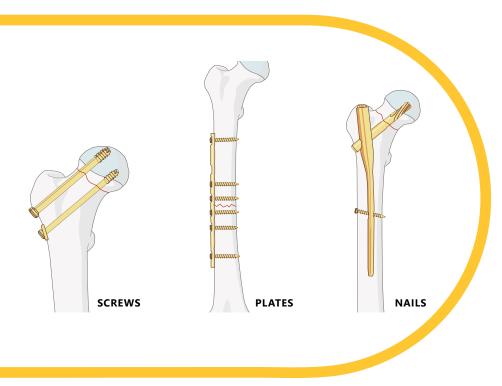


FIGURE 2: Types of Hip Fracture Fixation Devices

Company X was the sole provider of femoral nails in Singapore since late 1990s. However, in the past few years, with market development and rising affordability, many other players have been attracted to serve to this market. Currently, there are four global corporations and two distributors that offer femoral nail solutions in Singapore.

Screws are the most affordable option on the market. The total cost of surgery can be almost 40% lower than other options. Femoral plates are on average 20% more affordable than femoral nailing solutions. In general, the pricing for available femoral nail offerings is comparable to and typically benchmarked with the incumbent solution - Company X's P-LINE. In fact, new market

entrants have a slight advantage. With advances in technology, they are able to offer new designs by leveraging on new generation technology. This has enabled them to offer solutions at almost similar pricing as the older generation P-LINE solutions.

As shared, Company X recently launched a new line of titanium nails (T-LINE) for hip fracture fixation, which is an advanced technology to address hip fractures. Prior to the launch, the company had planned to introduce T-LINE at a 20% premium to P-LINE. This, however, would result in T-LINE being the most expensive solution on the market.

There are presently more than 200 orthopaedic surgeons in Singapore. They are the primary customers of hip fracture fixation solutions. However, most of the surgeries are carried out by an estimated 50 senior surgeons. The seniors, rather than their juniors, exert a strong influence on the choice of hip fracture solutions.

# 2. Customer Acquisition Planning - Understanding **Customers**

To launch T-Line, Company X adopted a structured approach to understand the customer landscape (Figure 3). This process was conducted six months prior to the planned commercial launch.

#### STEP 1

#### ASSESS CURRENT USAGE PATTERN

The first step was to comb through the sales database of Company X, which allowed for data mining. This exercise enabled the company to understand sales trends over the past three years and identify preferences of individual surgeons. The company ranked each surgeon customer by the number of P-LINE units purchased in the past three years. By doing so, the company could identify the top users who drove almost 50% of the consumption of P-LINE. These identified users were customers that the company would target for upgrading to T-LINE.

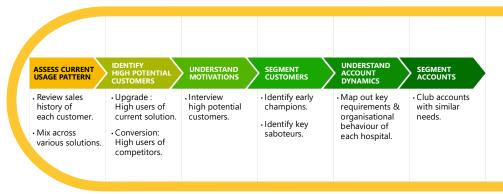


FIGURE 3: Process of Understanding the Customer Prior to Product Launch

#### STEP 2

#### **IDENTIFY HIGH POTENTIAL CUSTOMERS**

Next, Company X sought to identify sales mix. Specifically, the company obtained statistics that enabled them to know, by surgeon, the percentage of femoral neck fracture surgeries using P-Line. The statistics also enabled the company to find out the frequency with which each surgeon used alternative solutions like screws. The results allowed the company to identify surgeons who preferred to use screws over nails (presumably for price or confidence reasons). The company would place these surgeons as lower in priority to engage in marketing activities.

There are, however, limitations to using sales data to identify high potential customers. For instance, surgeons who perform high number of femoral nail surgeries but prefer competitors' solutions, will reflect as low volume users in the company's database.

In the medical device business, it is critical to engage the account managers and on-the-ground sales representatives to get their insights on mindset, and surgical preferences of surgeons. Field intelligence is critical in planning conversion strategy and is usually more powerful than plain data analytics inputs.

## STEP 3

## **UNDERSTAND MOTIVATIONS OF HIGH** POTENTIAL CUSTOMERS

The next step involved interviewing the identified high potential customers to obtain useful insights on what would motivate these customers to switch to a new solution. To achieve this objective. Company X adopted a deliberate interviewing strategy.

The company listed down all key conferences and meetings where maximum target audience could be approached. Meet-and-greet space was created at the venue of these key conferences, where customers were invited for feedback sessions over coffee. The company separately approached and scheduled appointments with customers who could not be reached in this manner.

The focus of the interviews was not on selling the benefits of T-LINE. Instead, the interview was focused on understanding the reasons for using the current solution and any desired improvements on the current solution. The high potential customers were encouraged to share any challenges they faced in performing surgeries, administrative issues regarding introduction of new solutions and managing skill development/training of junior colleagues. During the conversation, interviewers attempted to aualify if T-LINE could address a pressing pain point for the customers. without presenting a solution to them. At the end of the conversation, a simple flash card with a picture of T-LINE was shown to the customers and feedback was sought on how they perceived it.

Having a structured and deliberate interview plan is important. It enables the interviewer to obtain useful insights and qualitative information on user motivations and mindset. Good interviewers encourage their interviewees to speak about their experiences, as well as likes and dislikes, for most of the interview. An interview should not be used as an advertising platform for the solution.

#### STEP 4

#### SEGMENT HIGH POTENTIAL CUSTOMERS

Based on the interview sessions. customers were segmented into three categories - Champions, Friends and Fence Sitters (Figure 4).

Key saboteurs i.e. people who would oppose introduction of the technology, were also identified.

## STEP 5

### **UNDERSTAND ACCOUNT DYNAMICS**

In addition to identifying Champions and Friends, it is also vital to understand the procurement policies and organisational dynamics of key hospitals/clinics i.e. accounts. These factors are likely to impact the rate at which new technology can be introduced and adopted in an account.

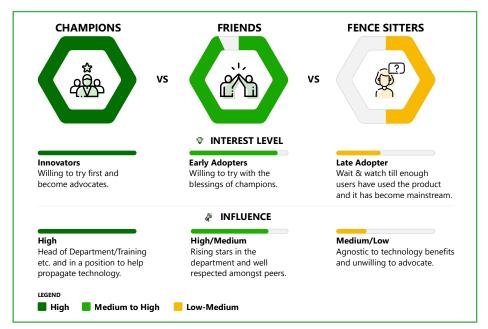


FIGURE 4: Customer Segmentation by Potential

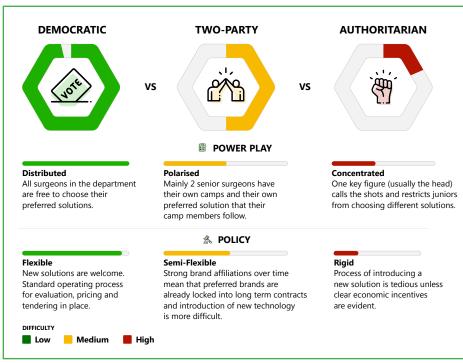


FIGURE 5: Account Segmentation by Organisational Behaviour

#### STEP 6

#### SEGMENT ACCOUNTS

In this step, a deeper level of segmentation was carried out for hospital accounts based on their organisational behaviour (Figure 5).

The account seamentation facilitated different customer acquisition strategies to be developed and customised according to account type.

Organisational behaviour plays a very important role in new technology adoption. The interpersonal dynamics of the specialty department, as well as the power held by non-clinical stakeholders in the hospital, can greatly help or hinder the process. Usually, the launch process starts with 'friendly' accounts, where key users are open to change and willing to engage.

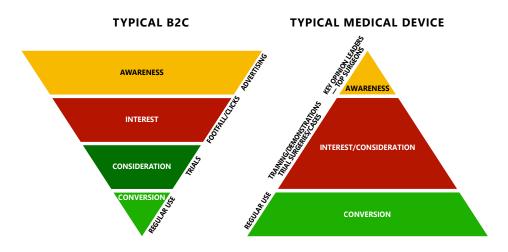


FIGURE 6: Customer Acquisition Funnel

## 3. Execution

Customer acquisition funnels in medical device industry differ greatly from a typical consumer product scenario as explained below (Figure 6). A proper understanding enables customer acquisition strategies to be effectively developed.

For medical devices in a regulated and controlled procurement setting, a typical technology introduction approach as illustrated in Figure 7 is usually adopted. Company X adopted such an approach for T-Line successfully.

A compelling Reason to Use (RTU) should follow the 3S rule: Simple, Singular and Strong. If the technology can address one particularly painful problem for the customer and do it better than any other option available on the market, it can become the flagship reason to drive trials. The other benefits of the technology can be amplified in the process of the trial and become secondary reasons to drive adoption.

#### **INVITATIONAL PREVIEW**

· Champions & Friends invited for an exclusive tech preview and dialogue with International surgeons who are pioneer customers.

#### MASTER CLASS

• Train the Trainer workshops for selected Champions & Friends so they become effective advocates in their accounts.

ACCOUNT WISE ENGAGEMENT PLAN Training activities/engagement plans

for other surgeons.

FIGURE 7: Technology Introduction Process

Firstly, Key Champions/Friends who were identified as key allies in surgical training were given an exclusive invitational preview of the new technological solution. International surgeons (who were involved in product design and were pioneer customers) were also invited to the technology preview, to share their thoughts and experiences. This platform allowed for in-depth discussion between their high potential users and the surgeon expert. From the session, Company X was able to identify features and benefits of the technology that were perceived as valuable, and which could become the Reason to Use (RTU) for the local market.

Secondly, masterclasses were conducted for selected Champions and Friends who were able to become effective advocates in their institutional accounts. Once the Champions and Friends became certified trainers, they were involved to assist in leading the engagement plans in their accounts.

Finally, Company X customised specific engagement plans for each account according to the account segmentation. (Figure 8)

#### 4 Conclusion

By segmenting the customer base and developing targeted engagement plans, Company X was able to convert customers successfully. Within the first year of its launch in Singapore, T-LINE became a million-dollar business and stronaly defended the company from new entrants in the market.

#### KEY OBJECTIVE OF PLAN DEMOCRATIC 2 PARTY **AUTHORITARIAN** Create Awareness-Exclusive Master Class Champions & Friends Hands-on practical workshops, Joint workshop with key In surgery training. demonstrating the specific competitor focused on surgical steps and simulate clinical approach to a specific surgery with LINE-T. surgical procedure. Generate Interest within Hospital KEY MESSAGE KEV MESSAGE KEV MESSAGE Department "Specific benefits of LINE-T" "Practical considerations and "Clinical considerations in surgical tips and tricks of managing specially challenging using LINE-T" cases (Poor quality bone of geriatric patients)" Drive Primary Reason-to-Use: Geriatric patients with Consideration poor bone quality — use of cements through Trial Trial surgeries with selected pool of patients. of Solution Reamplify positive word of Introductory pricing: LINE-T Create centre of excellence for mouth and encourage advanced option available at clinical evidence generation. Convert peer topeer conversion for same price as competitor Customers Reason-to-Use cases. solution to remove barrier

#### FIGURE 8: Example of Account Specific Acquisition Plan for Femoral Nail Product

# **KEY TAKEAWAYS**

- Segment customers based on motivations to use new technology.
- 2 Understand organisational behaviour.
- **3** Focus on key influencers.
- 4 Use a clear and singular 'Reason to Use' to drive trials.
- **5** Develop targeted training programs.

# **ACKNOWLEDGEMENTS**

Singapore Biodesign would like also like to thank and acknowledge the following members for their active roles in coordination, copywriting, editing, illustrations and supporting the overall production of this report.

# **SB CURRICULUM TEAM**



Dr Marv Kan **Programme Director** 



**Deputy Programme Director** 



Ms Fiona Loke

Curriculum Head



Ms Preeti Mohan **Product Development Engineer** 



Mr Alex Choh

**Innovation Training Manager** 

## OTHER CONTRIBUTORS



Mr Gobind Singh





Mr Arfandi Azzahar

Copyright © 2022, Singapore Biodesign

All rights reserved.

No part of this publication may be reproduced, stored in a retrieval system, stored in a database and / or published in any form or by any means, electronic, mechanical, photocopying, recording or otherwise, without the prior written permission of the publisher.

# **EMPOWERING ASIA'S HEALTHTECH INNOVATORS OF TOMORROW**

Modelled after the established Biodesign Programme at Stanford development initiative that aims to train and nurture the innovators for Asia.

We are a dedicated talent development and knowledge resource for health technology innovation, riding on the robust biodesign methodology and our wide-ranging regional network to provide an appreciation of healthcare needs through observations from stakeholder perspectives.

#### MISSION

mentoring to accelerate health technology innovation and adoption for Asia's\* unmet healthcare needs.

#### VISION

To be Asia's\* leading healthtech talent development and knowledge partner for accelerating health technologies innovation towards commercialization and adoption.

\*Asia refers to SG, China and ASEAN



SINGAPORE BIODESIGN