

The BSC as a measurement and tool of performance indicator in a clinic-hospital

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------ABSTRACT------

Every single organization has, as a goal, to reach the optimization of resources that it has, because of it, to have a plan of its use is essential. Strategic planning is a continuous process based on as much knowledge as possible of the future, this based on results measurement. Regarding measurement, all along history, there have been developed several methodologies and tools where BSC is included, this one has as goal, the formulation of financial and no financial indicators, which allows to evaluate activities performance mixing goals and critical factors of success through reach institutional mission and vision. Indicators implementation and evaluation helps to represent periodically organizational performance and adds effectively on decision making to implement effective strategies.

KEYWORDS; -Key performance indicator, Criticalfactorsofsuccess, Institutionalgoals, Strategicplanning

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I. INTRODUCTION

Organization performance is essential to reach planned goals and obtain as a result, success on business vision; we want to understand this as the top goal in an organization. In this context, success measurement has a critical role, because it includes following advances on strategic achievements, because of it, it is necessary having tools to face correctly, necessities on tracing and evaluation, that bring indicators that allow modify, if necessary, strategies path. This investigation represents has the object to develop the Balanced Scorecard, according to teachers Kaplan and Norton (2001) this tool as principal object "transform a business strategy in action and results" using goals alignment of all perspectives is possible to see on a business: financially, processes, clients and strategy capabilities. The BSC adds result measurement indicators of action as financial and no financial indicators, key ones that influence on future results, that came from vision, mission and goals of the clinic- hospital study case.

II. GRAPH DATABASES

Strategic Planning is the continuous process based on the largest possible knowledge of the future, considering that it works to make decisions on present, which includes future risks because of expected results (Drucker 1954), in the strategic planning it is necessary to implement competitive tools as: Just-in-time (JIT), total quality control (TQC), continuous improvement, empowerment, strategic planning, outsourcing, benchmarking, BSC, among others.

In the specific case of this investigation, the tool is used is BSC, James E. (2005) says that purpose of this tool is helping to identify correct indicators aligning them with organization vision and strategies, giving a way to establish goals and to distribute resources for short time planning, to communicate strategies, linking awards whit performance and providing feedback for organizational knowledge. At the same time (Amo, 2011) says that the BSC can be considered as an administration methodology or technique that works as help to organizations on transforming its strategies into measurable, reachable and durable goals between them, achieving that behaviors of key people and organization resources get aligned. The tool has to be flexible and agile because this way will allow that information that is in it can be used fast, easily and on time, then actions that came from it, can be done effectively (Curto, 2012). Activity sequences to end with BSC are mentioned on next diagram I:

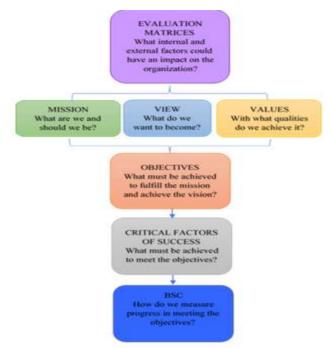


Diagram I.TheframeworkoftheBSC, Source:Ownelaboration(2019), takenfromMartínez D. (2012)

The Balance Scorecardwas David Norton and Robert Kaplan answertothenecessitytoincreasevisionof control systemfromaninside and financialbalancedperspective in differentways: financial and nonfinancialinformation, internal and externalinformation, as well as informationof actual and futureresults. In theyproposetoevaluatetheorganization performance balance onthe base offourperspectives that showed the organic behavior of organizations: financial perspective, knowledge and growthperspective, internal processes perspective and client perspective. Duetoit, itispossibleto denote thatthistoolallowssizingorganizations performance because, notonly, sizesfinancialindicatorsbutsizesorganizational and departmentalgoalswhichmakeofitan impactsystem, providespointsofviewfromallpeopleinvolved: investors, clients and workers (Valhondo, 2010). Nowadaysorganizations are in a constant competition and daybydaythere are new requirements for them, thatiswhyit comes thenecessitytosize, control and optimizeitsprocesses, actually, in Tlaxcala there are 71 businessthatwork in healthcare (clinics-hospitals) public and private sector, accordingto INEGI (2016). In Tlaxcala citythere are 7 business in thisarea in private sector, from which there is no information regarding the use ofindicators, so organizations do not use a methodologybasedonclearinformationthatallowsto show iftheorganizationissustainable and/orwithsuccess, at thesame time itrestrictsstrategieseffectivenessthat are proposetostrengthenorganizational performance.

Metodolgy - development

- Initiallyitisconformed a workteamconformedbyorganizationmemberswhichreasonisto look foropportunityareasthroughthe startup ofthetool "Focus groups" in ordertoestablishthe actual situationofthebusiness, internally and externally (FODA), evaluatingevery single factor that can impactoncontinuousimprovementoftheorganization.
- externalfactors Once internal and identified, theywill weighed are be itwill be possibletoknowthepriorityorder; **EFE** (Evaluationmatrixofexternal factors) and **EFI** using matrixes (Evaluationmatrixofinternalfactors).
- Whitresultswegotfrommatrixes EFE and EFI, itisshown in a mapthestrategicgoals, considering those factors that have more impact. Goals allow accomplishing hospital mission step by step.
- Thenwe do mission, vision and organizationalvalues; these once are done fromweaknesses, threats and
 opportunities that where identified in matrixes EFE AND EFI. In order to accomplishor ganizational goals,
 it is essential to have inductor objectives, which are linked to successcritical factors (FCE) that is why we look
 for them.
- Finallywe do the BSC withthereasonto show objectives, goals and optimalindicatorstoevaluatetheorganizational performance.

III. RESULT VIEW

In ordertoknow actual situation of Del Angelclinic-hospital, we do ananalysis of internal and external ambient in which is involved, this one is done by using FODA tool as well as matrixes EFE and EFI.

OPPORTUNITIES	RELATIVE WEIGHT	QUALIFICATION	WEIGHING
Obtaincertifications and / oraccreditationsbyegnationalsystemofcertification of medical care establishments (CMCSS), JointCommissioninternational (JCI), ISO certification, OHSAS certification, etc	0.05	1	0.05
Establishagreements and / orstrategicalliancesconsulting, government and business insurance,	0.15	2	0.30
Takeadvantageoftheimportanceofmaintaining and safeguardinghealth as a basicneed	0.05	3	0.15
Takeadvantageof COFEPRIS permitstolaunchadvertisingcampaign	0.20	1	0.20
Updatingof medical equipmentaccordingtotechnologicaladvances	0.05	3	0.15 0.85
THREATS	0.0		0.00
Theexistenceofpublicclinics and hospitals	0.10	2	0.20
Rigidity in legislativeregulations	0.05	3	0.15
Private medical centers withthemostinfrastructure	0.20	2	0.40
Economyofthe Tlaxcalteca populationwith salaries lowerthanthenational average Increase in competitors (creation of new hospitals,	0.10	2	0.20
bothpublic and private)	0.05	2	0.10
	0.5		1.05
TOTAL	1		1.90

Table 1. Matrix for evaluating external factors, Own elaboration (2019)

In general and according to the results obtained, the rating of the MEFE matrix is 1.90, this rating is below the average (2.5), so it can be denoted that the strategies that the organization currently has do not allow for taking advantage of the opportunities exist, nor do they support minimizing the potential effect of external threats.

Table 2. Matrix for evaluating internal factors, Own elaboration (2019)

STRENGTHS	RELATIVE WEIGHT	QUALIFICATION	WEIGHING
Hospital withplans and permitsauthorizedby federal agencies	0.03	4	0.12
Location in downtown and wellconnectedwithcityof Tlaxcala	0.05	4	0.20
It has availableinfrastructurewhichallowsittohavetheoppo rtunitytoexpand	0.03	3	0.09
Large and equippedoperatingroom	0.04	4	0.16
Adequate and necessaryequipmentfordifferentareas	0.05	3	0.15
Medical and support staff 24 hours	0.03	4	0.12
Personnelwith a preparationaccordingtothe position profile, withprofessional, ethical and human qualityexperience	0.04	4	0.16
Medical specialist staff with a highprofessionaltrajectory, (basicspecialtiessuch as internal medicine, gynecology and obstetrics, surgery and pediatrics)	0.07	4	0.28
It has supportspecialists, allofthem are distinguishedbytheirhighcapacitytorespondto a medical emergency	0.07	4	0.28
	0.41		1.56

WEAKNESSES			
Thereis no recordormonitoringofthequalityoffered	0.10	1	0.10
The existence (inventory) of accessories and / or medicines (fixed fund) necessary in each department is not controlled	0.05	2	0.10
It has a cleaning and maintenanceprogramwhichisnotmonitored	0.03	2	0.06
Thereis no training program, noris case analysis and medical issues	0.07	1	0.07
Lackofadministrative, organizational, management and control instruments (performance evaluationindicators)	0.15	1	0.15
Theprocesses and proceduresimmersed in customerservice do not run efficiently	0.05	1	0.05
Thereis no mission, vision, objectives and strategies (strategicplanning) to define the direction of the organization	0.10	1	0.10
ItlacksTIC`stoimproveinternalprocesses	0.05	2	0.10
	0.59		0.73
Total	1		2.29

Makinganassessmentofthestrengths and weaknessestheresultoftheweighted scores obtainedfromthe MEFI matrix show a negative resultfortheorganization, sincethey are belowtheaverage (2.5) which shows that the hospital clinicisinternallyweak, and theweaknesses are superior to their strengths.

According to hospital necessities identified by the focus group, mission, vision and institutional values are done as follows:

Mission:We are aninstitutionthatwantstoprotecthealth and integrityofpatients, assuringhumanistic and tender attentionthroughthehighesttechnical-medical knowledge and thelast in technology, we are expertson providing kind and solidary service with the highest quality and ethicle velthat allows obtain full satisfaction and integral health of our patients.

Vision:To be aninstitution que stands outbybringing a servicewiththehighestqualitystandards, using as a base ofis performance continuousimprovementonitsprocesses and servicesto preserve healthofpeoplethrough a humanistictreat and patient safety, in ordertoreachthehighestesteemofcommunitywherewe serve so we can be marketleadersonhealthcare.

Values:

- Empathy: Offering a servicewhichbasisispatientsensitivity and integrity.
- Honesty: Doctor provides complete and honestinformation to patients and family members so they can be able to take decisions in the scope of autonomy.
- Ethics: Includes integral care, no discrimination and confidentialityregardinginformationprovidedbypatient.
- Respect: Ouremployershavetheaptitudetorecognize, accept, appreciate and valueallattributesofourclients and itsrights.
- Responsibility: Every single active will do, will be done totakecare of health and integrity of the patient and family members, setting first clear information.
- Solidarity: We do teamwork, withjustice and humanizationtoprovide the best service to patients and to all people in our community.

Next map shows strategicobjectives, and are a consequence of factors with higher impact that were identified in matrixes EFE and EFI through weights, objectives are classified according to perspectives of BSC; Knowledge and growing, customer satisfaction, internal processes and finance.



Diagram II. Strategic map of institutional objectives, Source: Ownel aboration (2019)

Once strategic objectives are stablished, we formulate a series of critical factors of success (FCE) for each of them, understand these as product characteristics (service) that are highly valued for a group of clients and in which ones, as a consequence, organization has to have success to overcome to competitors (Johnson and Acholes 2002).

In order to FCE can be strategically manageable it is indispensable identifying those indicators that can be used for its measurement and evaluation (Thompson and Strickland, 2004). FCE, institutional objectives and indicators are closed linked, because allow evaluate compliance of stablished objectives to better the rganization

Strategicobjectives	Criticalfactorsofsuccess	Indicator	
Achieveinstitutionalgrowth and	Increaseutilities	Net profitmargin	
developmentthroughfinancialequilibrium	Reductionofoperating expenses	Selling expenses byperiod	
	Improvefinancial performance	Costeffectiveness	
Be a strategicallyofinsurers and medical consultations	Makestrategicalliances	Numberofstrategicallianc es	
Increasecoverage in theprovisionoftheservice	Increasepatientcatchment	Growth in sales Growthofthebillboardofc lients	
	Reduce non-conformities	Numberofnonconformiti es	
Increasethelevelofsatisfactionthroughcontinuo usimprovement	Decreaseclaims	Numberofclaims / complaints	
	Improvingcustomersatisf action	Overallsatisfaction	
Adoptclinicaladministration, planning and managementprocesses	Standard OperatingProcedure (SOP)	Executionnonconformitie s	
Strengthenthelevelof performance in	Efficiency in keyprocesses	Efficiency	
keyprocesses	Effectiveness in keyprocesses	Rateofreturn	
Achievegreaterdiversity in theprovision of hospital services (human talent and infrastructure)	Increasebillboardof medical specialists	Adequacyoftheresources demandedbythecommuni ty	
Achievethedevelopmentof human talent, itsmotivation and	Train the staff	Monthlyhoursused in training	
adherencetoinstitutionalpurposes	Effective training	Averageobtained in the evaluation of the person nel	

performance, then, we present the critical factors of success and its indicators.

Table 3. Compendium of BSC, Own elaboration (2019)

IV. CONCLUSION

Basedontheevaluation of EFE and EFI matrices itispossibleto denote thatorganization presents general shortcomings and actually its strategy do not answers to the demanding needs, internal and external ones, so that we develop the methodology to ol called BSC, this one allows to run a system of indicators that will work to evaluate and measure organizational performance of the clinic-hospital, it is important to develop that business study case do

nothavewithorganizational objectives so in this investigation we provide a direction to it based on BSC and taking as starting keypoint to external and internal factors according to weights that have more impact nowadays.

According to the analysis of the information showed in this investigation it is possible to conceive next: the continuous change in the world has created as a result that new administration at general level has had adapted to this fast and new transformation, looking for this way that the financial and operational results can be efficient and addressed to managerial decisions on planning and control of the business applying competitive strategies, facing this changes, it is possible understand that it is necessary the use of a tool that helps to identify and verify the strategies needed to follow to reach the vision, as well as the accomplish of specific objectives, which can be measurable and reachable with a group of indicators that show in real time the business perform. In the specific case of the business, study case, we look for, by using, the BSC tool to achieve the integrated tracking through the combination of the elements of strategic management and the behavior control of an organization on short, medium and long time, based in objective sedetermination with indicators and initiatives in a strategic way.

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