


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, Critical factors of success, Institutional goals, Strategic planning

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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 (TOC), 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 theyproposetoevaluate theorganization performance ordertogetthis balance onthe base offourperspectives that showed the organic behavior of organizations: financial perspective, knowledge and growthperspective, internalprocessesperspective and clientperspective. Duetoit, itispossibleto denote thatthistoolallowssizingorganizations performance because. notonly, sizesfinancialindicatorsbutsizesorganizational and departmentalgoalswhichmakeofitan integral and 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 so itwill be possibletoknowthepriorityorder; EFE (Evaluationmatrixofexternalfactors) and EFI using matrixes (Evaluationmatrixofinternalfactors).
- Whitresultswegotfrommatrixes EFE and EFI, itisshown in a mapthestrategicgoals, consideringthosefactorsthathave more impact. Goalsallowaccomplishing 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 accomplish organizational 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 with the reason to show objectives, goals and optimal indicators to evaluate the organizational performance.

III. RESULT VIEW

In ordertoknow actual situation of Del Angelclinic-hospital, we do ananalysisofinternal and externalambient in which is which 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, insurance, government and business	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 0.5	3	0.15
THREATS			
Theexistenceofpublicclinics and hospitals	0.10	2	0.20
Rigidity in legislativeregulations	0.05	3	0.15
Private medical centers with the most infrastructure	0.20	2	0.40
Economyofthe Tlaxcalteca populationwith salaries lowerthanthenationalaverage Increase in competitors (creationof 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 thre ats.

 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 necessary equipmentfor differentareas	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

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WEAKNESSES			
There is no recordormonitoring of the quality offered	0.10	1	0.10
The existence (inventory) of accessories and / or medicines (fixed fund) necessary in eachdepartmentisnot 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 thedirectionoftheorganization	0.10	1	0.10
ItlacksTIC stoimproveinternalprocesses	0.05	2	0.10
	0.59		0.73
Total	1		2.29

Makinganassessmentofthestrengths and weaknessestheresultoftheweighted scores obtainedfrom the MEFI matrix show a negative result for the organization, since they are below the average (2.5) which shows that the hospital clinicisint ernally weak, and the weaknesses 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 expertsonprovidingkind and solidaryservicewiththehighestquality and ethiclevelthatallowusobtain full satisfaction and integral healthofourpatients.

Vision:To be an institution que stands outbybringing a service with the highest quality standards, using as a base of is performance continuous improvement on its processes and services to preserve health of people through a humanistic treat and patient safety, in order to reach the highest esteem of community where we serve so we can be market leaders on health care.

Values:

- Empathy: Offering a servicewhichbasisispatientsensitivity and integrity.
- Honesty: Doctor provides complete and honestinformationtopatients and familymembers so they can be abletotakedecisions in thescopeofautonomy.
- Ethics: Includes integral care, no discrimination and confidentialityregardinginformationprovidedbypatient.
- Respect: Ouremployershavetheaptitudetorecognize, accept, appreciate and valueallattributesofourclients and itsrights.
- Responsibility: Every single actwewill do, will be done totakecareofhealth and integrityofthepatient and familymembers, settingfirstclearinformation.
- Solidarity: We do teamwork, withjustice and humanizationtoprovidethebestservicetopatients and toallpeople in ourcommunity.

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



DiagramII. Strategicmapofinstitutionalobjectives, Source: Ownelaboration (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	
	Increaseutilities	Net profitmargin	
Achieveinstitutionalgrowth and			
developmentthroughfinancialequilibrium	Reductionofoperating	Selling expenses	
	expenses	byperiod	
	Improvefinancial	Costeffectiveness	
	performance		
Be a strategicallyofinsurers and medical	Makestrategicalliances	Numberofstrategicallianc	
consultations		es	
I	Increasepatientcatchment	Growth in sales	
Increasecoverage in theprovisionof theservice		Growthofthebillboardofc lients	
	Reduce non-conformities	Numberofnonconformiti	
	Reduce non-conformates	es	
Increasethelevelofsatisfactionthroughcontinuo	Decreaseclaims	Numberofclaims /	
usimprovement		complaints	
	Improvingcustomersatisf	Overallsatisfaction	
	action		
Adoptclinicaladministration, planning and	Standard	Executionnonconformitie	
managementprocesses	OperatingProcedure	s	
	(SOP)		
	Efficiency in	Efficiency	
Strengthenthelevelof performance in	keyprocesses		
keyprocesses	Effectiveness in	Rateofreturn	
	keyprocesses		
Achievegreaterdiversity in theprovisionof	Increasebillboardof	Adequacyoftheresources	
hospital services (human talent and infrastructure)	medical specialists	demandedbythecommuni	
Achievethedevelopmentof human talent,	Train the staff	ty Monthlyhoursused in	
itsmotivation and	riam une starr	training	
adherencetoinstitutionalpurposes		Averageobtained in	
······································	Effective training	theevaluationoftheperson	
	U	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 itispossible denote that organization presents general shortcomings and actually its strategy do not answers to the demanding needs, internal and external ones, so that we develop the methodology tool 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

nothavewithorganizationalobjectives 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 weight sthat have more impact now adays.

Accordingtotheanalysisoftheinformationshowed in thisinvestigationitispossibletoconceivenext: thecontinuouschange in theworld has created as a resulthat new administration at general level has hadadaptedtothisfast and new transformation, lookingforthiswaythatthefinancial and operationalresults can be efficientand addressedtomanagerialdecisionsonplanning and control ofthebusinessapplyingcompetitivestrategies, facingthischanges, itispossibleunderstandthatitisnecessarythe use of a toolthathelpstoidentify and verifythestrategiesneededtofollowtoreachthevision, as well as theaccomplishofspecificobjectives, which can be measurable and reachablewith a groupofindicatorsthat show in real time thebusinessperform. In thespecific case ofthebusiness, study case, we look for, byusing, the BSC tooltoachievetheintegrated tracking throughthecombinationoftheelementsofstrategicmanagement and thebehavior control ofanorganizationon short, medium and long time, based in objectivesdeterminationwithindicators and initiatives in a strategicway.

REFERENCE

- [1]. Robert Kaplan y David Norton, R. "Balanced Scorecard". Harvard Business Press. Spain. (2000).
- [2]. Peter F. Drucker "The practice of management" editorial New York: Harper & Row, 1954
- [3]. James E. "Management and quality control". Editorial THOMSON. Mexico, 2006.
- [4]. Amo Barayvar, F. "Balanced Scorecard". Editorial ESIC. Madrid, 2011
 [5]. Curto Díaz, J. "Introduction to Business Intelligence". Editorial UOC. Barcelona, 2012.
- [6]. Daniel Martínez, Artemio Milla."The elaboration of the strategic plan and its implementation through the Balanced Scorecard" editorial ALTAIR. 2012.
- [7]. Valhondo Solano, D. "Knowledge management: from myth to reality". Editorial Díaz de Santos, S.A. Madrid, 2010.
- [8]. National Statistical Directory of Economic Units (INEGI), Available: http://www.beta.inegi.org.mx/app/mapa/denue/default.aspx# , 2016.

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