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IDENTIFYING AND RESPONDING TO CUSTOMER NEEDS AT THE KENNEDY SPACE CENTER

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All of us have become well educated in the tenets and essentials of total quality μ^{\prime} () management. It is not my intention today to review those basics, but rather to present one of our approaches to identifying customer perceived needs and responding to them.

Our Patient Questionnaire Program at the Kennedy Space Center (KSC) has been in place for several years. It has helped to identify customer perceptions and needs. Shown in Exhibit 1 are the elements of information requested on the Patient Service Questionnaire.

Medical Facility (check one) Occupational Health Facility Launch Area Clinic	C	CAFS Clinic	
Date Visited	<u></u>		
Physical Exam	Treatment	Oth	ner
Please rate the following areas. If personal service or action, please	identify that pers	ion by name if poss	ible.
_	Excellent	Satisfactory	<u>Poor</u>
 Courtesy Quality of treatment/service 			
o Timeliness			
o Attitude of Personnel			. <u></u>
 Info/Instructions provided Overall 			<u> </u>
We are constantly trying to impro comments/suggestions.	ove patient care a	nd solicit your	
Please provide the following info	rmation if you de	sire a response to ye	our comment
Name	• •	ation	

Exhibit 1. Patient Questionnaire

Exhibit 2 shows the results from 1,507 questionnaires received during the first eight months of 1990.

Reporting Period: 01/01/90-08/31/90							
Excellent	<u>Sati</u>	sfactory	Po	or			
1436 95%	71	05%	0	0%			
1374 91%	133	09%	0	0%			
1322 88%	178	12%	7	0%			
1427 95%	79	05%	1	0%			
1342 89%	161	11%	4	0%			
1349 92%	113	08%	0	0%			
	1436 95% 1374 91% 1322 88% 1427 95% 1342 89%	1436 95% 71 1374 91% 133 1322 88% 178 1427 95% 79 1342 89% 161	1436 95% 71 05% 1374 91% 133 09% 1322 88% 178 12% 1427 95% 79 05% 1342 89% 161 11%	1436 95% 71 05% 0 1374 91% 133 09% 0 1322 88% 178 12% 7 1427 95% 79 05% 1 1342 89% 161 11% 4			

Exhibit 2. Results of Patient Questionnaire

A total of 2,660 questionnaires were returned in 1990. The results indicated that 93 percent rated the medical services to be excellent overall, 96 percent rated medical services attitude to be excellent, and 96 percent indicated courtesy to be excellent. Remember that about 80 percent of our health services are for other contractor and government agencies and that an average of seven Medical Department employees have direct interaction with each of the patients during a visit.

It is interesting for benchmarking purposes to compare this with the results of a survey from a national publication, shown in Exhibit 3.

Very Satisfied	Somewhat Satisfied	Not Very Satisfied	Not At All Satisfied
71	23	4	2
66	23	6	4
49	30	11	9
39	36	11	7
60	32	5	3
	Satisfied 71 66 49 39	Satisfied Satisfied 71 23 66 23 49 30 39 36	Satisfied Satisfied Satisfied 71 23 4 66 23 6 49 30 11 39 36 11

Exhibit 3. Percent Patient Satisfaction With Most Recent Doctor Visit

Source: Office of Issue and Communications Research

I would like to focus now on the fact that 11 percent considered timeliness of service to be less than excellent, and 10 percent considered the amount of information received in relation to their health program to be less than excellent.

Timeliness is often subjective, so in response to this perceived concern, our patient data cards were changed based on a suggestion submitted by one of our clerical employees in order to more specifically identify time spent in various components of the visit. These changes are shown in Exhibit 4.

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Exhibit 4. 1990 Patient Info Data Worksheet (Please Print)

Arrival Time	First Name	Initial	Last Name
Social Securit	ocial Security Number		Employer
Job Phone	Supv. Nam	e & Phone	
Sex Race	Date of Bir	th I	Date of Hire at KSC
Bldg. No Job Title			Mail Code
Out To	I	1	Date

KSC Form 28-211 (PA) (Rev. 1/88)

1991 Patient Info Data Worksheet (*Please Print*)

_	Arriva	l Time	First Na	ne		Initial	Last Name
_	Social	Security	y Number			Presen	l It Employer
	Job Phone			Supv. Name & Phone			<u></u>
_	Sex	Race		Date	of Birth		Date of Hire at KSC
_	Bidg. No.			Job Title			Mail Code
ADDED:			I		TRIAGI	TIME	DOCTOR'S TIME

KSC Form 28-211 (PA) (Rev. 1/88)

This gave us the opportunity to dissect the specifics and work out any related problems. Our studies over a period of four months indicated that there was a 7-minute average wait before seeing a nurse, and a 16-minute average wait to see a physician. We shared this information with the members of our health care team and developed an approach to improving these services.

All agreed about the importance of perceptions. They recognized the need to tell the patient of any anticipated delay in service, and use communications to demonstrate responsiveness to the patient's needs.

The second area of concern, patient information, led us to develop what has sometimes been called "Discharge Summaries." We have labeled them "Health Tips." These take the 45 most frequently seen health problems and provide information on the condition, treatment, and self-care. A list of available topics is given in Exhibit 5.

Abrasions	Oral Herpes (Cold Sores)

Exhibit 5.	Index of	Topics in	Kennedy	Space	Center's	"Health	Tips"
Exhibit 5.	Index of	Topics ir	Kennedy	Space	Center's	"Health	Tips"

Abrasions	Oral Herpes (Cold Soles)
Abcesses	Immunization
Allergies	Inhalations of Toxic Agents
Antibiotics	Insect Stings
Anti-inflammatory Drugs (Non-Steroidal)	Knee Injuries
Back Pain	Lacerations (Cuts)
Blood Pressure Readings	Lung (Spot)
Breast Lumps	Muscle Spasms
Carpal Tunnel Syndrome	Muscle Strains
Cholesterol/Triglycerides (Elevated)	Neck Pain
Contact Dermatitis	Non-Occupational Illness/Injury
Contusions	Pap Smear
Crutch	Prostate Cancer
Dizziness and Vertigo	Puncture Wounds
Ear Infections (Swimmer's Ear)	Sprains
Eye (Inflammatory Problems)	Sunburn
Fainting	Tachycardia and Palpitations
Flu	Throat and Tonsils (Infections)
Gastritis and Peptic Ulcers	Upper Respiratory Infections
Head Injuries	Visual Acuity Problems
Headaches	Vomiting and Diarrhea (Gastroenteritis)
Hemorrhoids	Wound Infections

These are given out in all of our medical facilities by the nurse or the physician based on a condition which is discovered at the time of treatment or physical examination. We have found them to be very well received. The health tips can also be published in a variety of Center-wide publications and through our Health Education Program to provide public information on medical topics.

Our perception was that through a team approach we had effectively addressed these two areas of concern. Our re-survey in 1992, shown in Exhibit 6, was somewhat surprising. The results were almost identical to those a year earlier.

Reporting Period: 01/01/90-08/31/90								
	Excellent	Satisf	actory	Poo	or_			
Courtesy	2545 96%	115	04%	0	0%			
Quality of Treatment/Service	2449 92%	211	08%	0	0%			
Timeliness	2351 88%	293	11%	16	0%			
Attitude of Personnel	2528 95%	131	05%	1	0%			
Information/Instructions Provided	1 2390 90%	263	10%	7	0%			
Overall	2479 93%	181	07%	0	0%			

Exhibit 6. Results of Patient Questionnaire

We do not accept the suggestion that these evaluations of our services are the best we can achieve. We believe that the lesson to be learned is that customer satisfaction takes continuous daily effort to sustain and improve. You cannot let down after initial successes. We are committed to an ongoing team effort to identify customer needs as well as perceptions and use the results in a continuous improvement process.