

CancerSupportSourceTM-Spanish: Development of a multidimensional distress screening measure for Spanish-Speaking Hispanic and Latino individuals living with cancer

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Disclosures



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Hendershot:

None to disclose.



Our Reach

CSC and Gilda's Club centers as well as hospital partnerships in the U.S. and around the world.



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CancerSupportSourceTM-Spanish

Outline and Objectives



Outline

- I. Project Overview
- II. Screener Development
- III. Screener Validation
- IV. Program Implementation
- V. Summary

Objectives

Workshop attendees will learn:

- Importance of distress screening in cancer care and related disparities
- Crucial steps in screener development, translation, and validation
- Utility of the CancerSupportSourceTM
 program for assessing and addressing
 unmet needs in cancer

I. Project Overview

CancerSupportSourceTM-Spanish

CANCER SUPPORT COMMUNITY
COMMUNITY IS STRONGER THAN CANCER

Project Overview

The Need



 In the US, Hispanic and Latino individuals living with cancer experience significant disparities, yet have limited access to culturally and linguistically competent distress screening and support that can improve their well-being

The Program

- CancerSupportSource™(CSS), a distress screening and referral program, identifies unmet needs of people with cancer and links them to resources and support
- We developed and validated a **Spanish-language version (CSS-Spanish)** to better serve Hispanic and Latino communities and promote health equity

Screener Summary



We created **CSS-Spanish**, a 25-item, psychometrically robust measure of distress and unmet needs.

CSS-Spanish screens for:

- Concerns across key areas of life
- Risk for clinically significant depression and anxiety
- Desired support and resource needs

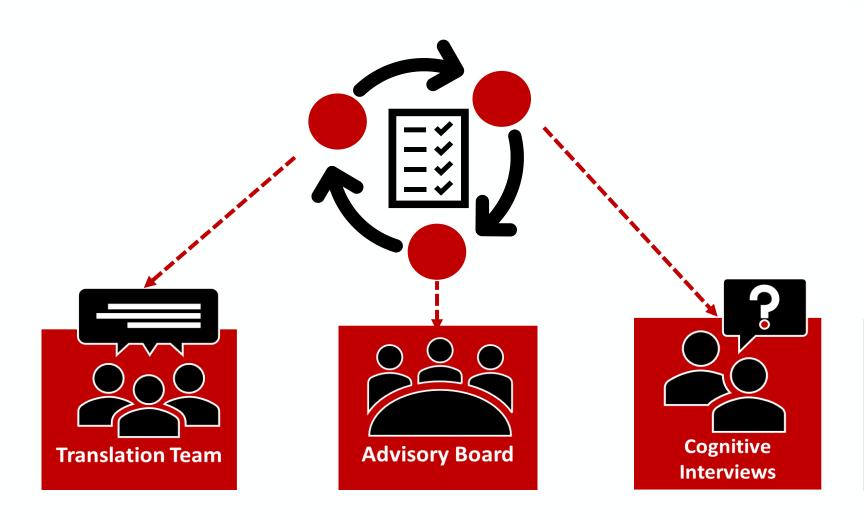
CSS-Spanish is delivered via a web-based platform to support screening, referral, and follow-up



II. Screener Development

Linguistic and Cultural Relevance





Iterative process of review, including multiple voices, capturing various cultural backgrounds and types of expertise

Do screener items capture the needs of diverse cultures within Hispanic and Latino communities?

Gold Standard Translation Process



Preparation

Creation and examination of content

Forward Translation

Translation from English to US Spanish by linguistic team

Back Translation

Translation from US Spanish to English by new linguistic team

Reconciliation

Quality manager compares translations and reconciles content to ensure conceptual equivalence between languages

Review and Harmonization

Additional quality control step comparing multiple versions of the translation and identifying content for further review

- Informed by World Health Organization (WHO) and Professional Society for Health Economics and Outcomes Research (ISPOR)
- Consideration for most common Spanish dialects in US (Mexican and Caribbean Spanish)
- Unique translators at each stage of the process, all native speakers or subject matter experts

Cognitive Interviews

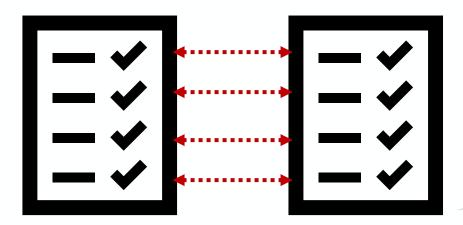


Expert interview team of three individuals

- All native Spanish language speakers
- Research Analysts and Methodologists with Masters or PhDs (Public Policy, Sociology, Human Development & Family Studies)
- Interviews conducted virtually via phone or Zoom



Patient feedback on content and different versions of item wording



What were you thinking about when I asked this question?

Can you give me some examples of what this means?

Which makes more sense to you?

CancerSupportSourceTM-Spanish

Items and Factors



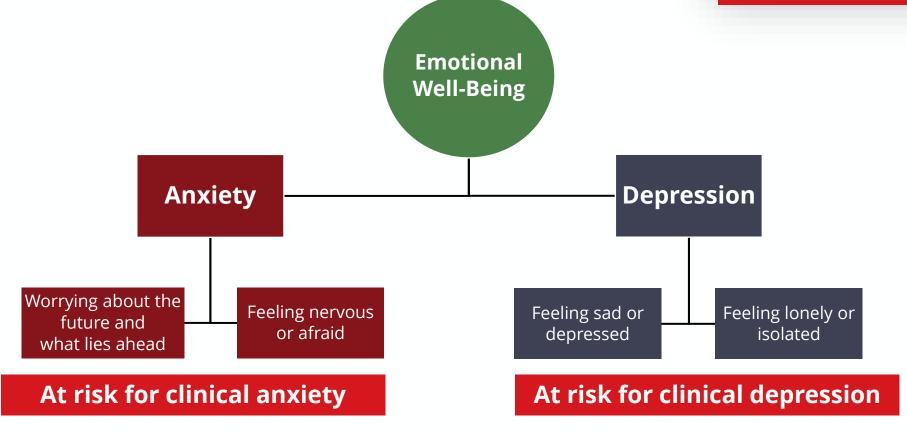
Factor	ltem (Spanish)	Item (English)
Emotional Well-Being	Sentirse irritado	Feeling itable
	Sentimientos de tristeza o depresión [‡]	reeling sad \r depressed [‡]
	Sentirse nervioso o con temor [†]	Feeling nervous or afraid [†]
	El futuro y lo que se espera [†]	Worrying about the future and what lies ahead [†]
	Sentirse solo o aislado [‡]	Feeling lonely or isolated [‡]
	El seguro médico o las preocupaciones por el dinero	Health insurance or money worries
	La familia, los niños o los amigos	Worrying about far rily, children and/or friends
	Encontrarle un propósito y sentido a la vid-	Finding meaning and purpose in life
Symptom Burden & Impact	Desplazarse o moverse (caminar, subir escaleras, levantarse, etc.)	Moving arour. (walking, climbing stairs, lifting, etc.)
	Problemas para dormir	Sleep toblems
	Cambios o alteracione, en el trabajo, la escuela o la vida en el hogar	Lnanges or disruptions in work, school or home life
	El transporte para llegar a su tratamiento y sus citas	Transportation to treatment and appointments
	Dolor o radestias físicas	Pain and/or physical discomfort
	Sonurse demasiado cansado para hacer las cosas que necesita o quiere hacer	Feeling too tired to do the things you need or want to do
	Manejo los efectos secundarios del tratamiento (náuseas innchazón, etc.)	Managing side effects of treatment (nausea, swelling, etc.)
	Pensar con claridad (p. ej., problemas de concentración, memoria, o fatiga mental)	Thinking clearly (e.g., "chemo brain," "brain fog")
Body Image & Healthy I festyle	Alimentación y nutrición	Eating and nutrition
	Su imagen física y sus sentimientos pecto a la manera cómo se ve	Body image and feelings about how you look
	Cambio de peso reciente (aur.anto o pérdida de peso)	Recent weight change (gain or loss)
	Hacer ejercicio y estar fúsicamente activo	Exercising and being physically active
Health Care Team Communication	La comunicación con su médico	Communicating with your doctor
	Toma de Lecisiones acerca del tratamiento	Making a treatment decision
Relationships & Intimacy	Intimidad, función sexual o fertilidad	Intimacy, sexual function and/or fertility
	Problemas en su relación con su esposa(o)/ pareja	Problems in your relationship with your spouse/partner
Tobacco, Alcohol, or Substance Use	Consumo de tabaco o drogas (por su parte o de alguien en su hogar)	Tobacco, alcohol, or other substance use

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Note: † = 2-item depression risk; ‡ = 2-item anxiety risk



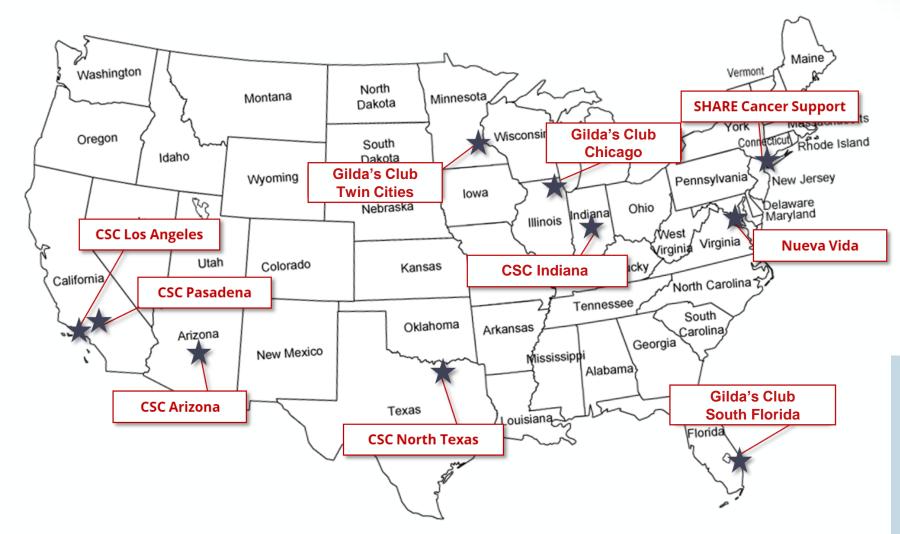
Depression and Anxiety Risk Screening



- Untreated depression and anxiety can have serious consequences
- Embedded within CSS-Spanish are subscales to flag people at-risk for clinical levels of depression and anxiety
- Staff are notified when a flag is activated and can provide appropriate follow-up

III. Screener Validation

Validating the Screener





210 participants completed CSS-Spanish and comparison measures in an online survey conducted 11/2021 – 8/2022

Recruitment occurred via:

CSC National Platforms
Cancer Experience Registry
MyLifeLine online community
CSC & GC Network partners
Advocacy partners
Nueva Vida
SHARE
National survey polling firm

Participants identified as more than a dozen Hispanic and Latino origins, with the largest groups including Mexican (40%), Columbian (8%), Puerto Rican (8%), Cuban (7%), and Dominican (7%)

Statistical Validation Results



Internal reliability:

High internal consistency (α =.95) and test-retest reliability (r=.92); individual factor ICCs \geq .79

Confirmatory Factor Analysis:

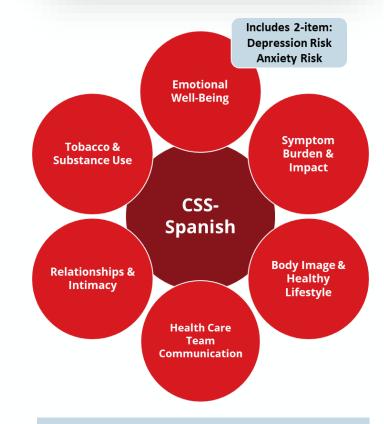
Good to acceptable model fit: RMSEA=0.08[CI = 0.069-0.086], SRMR=0.06, CFI=0.90, TLI=0.89, χ 2=546.48

Scale correlations with comparison validation measures:

Strong and statistically significant correlations (absolute value of r > 0.50; p<.05) observed between total CSS-Spanish distress and all seven domains of PROMIS29 (depression, anxiety, social function, physical function, sleep disturbance, fatigue, pain interference), as well as PHQ-2, GAD-2, and NCCN Distress Thermometer

Known groups validity:

Greater total distress associated with cancer recurrence (r=.24, p<.001), time since diagnosis (r=-.17, p<.001), metastatic status (t=4.150, p<.001), and active treatment (t=3.151, p<.001)



ROC Analysis

2-item Depression

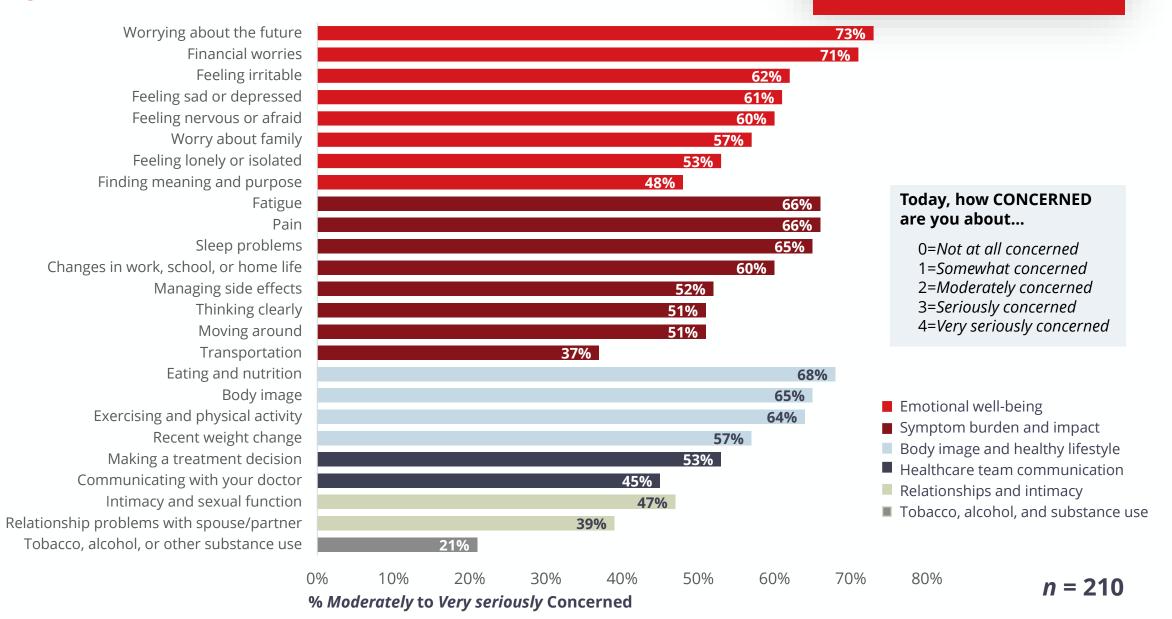
AUC=0.840; Sensitivity=0.84

2-item Anxiety

AUC=0.852; Sensitivity=0.90

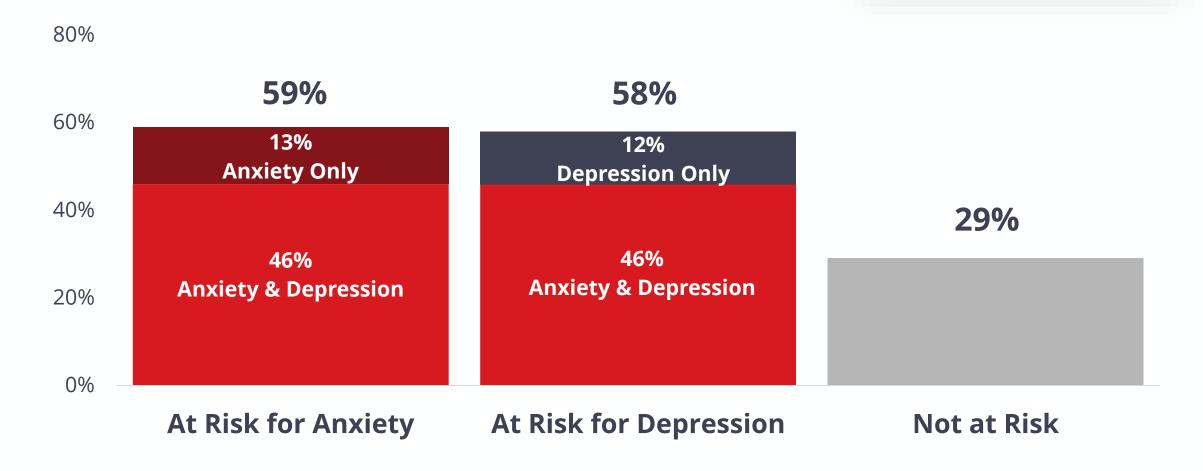
Participant Concerns





Depression and Anxiety Risk among Validation Participants





In our sample (N=210), 71% of respondents reported depression or anxiety at levels triggering a clinical "risk flag." In the full program, staff receive an automatic notification so that persons at risk can receive needed follow-up.

IV. Program Implementation

CancerSupportSource-Spanish Distress Screening and Referral



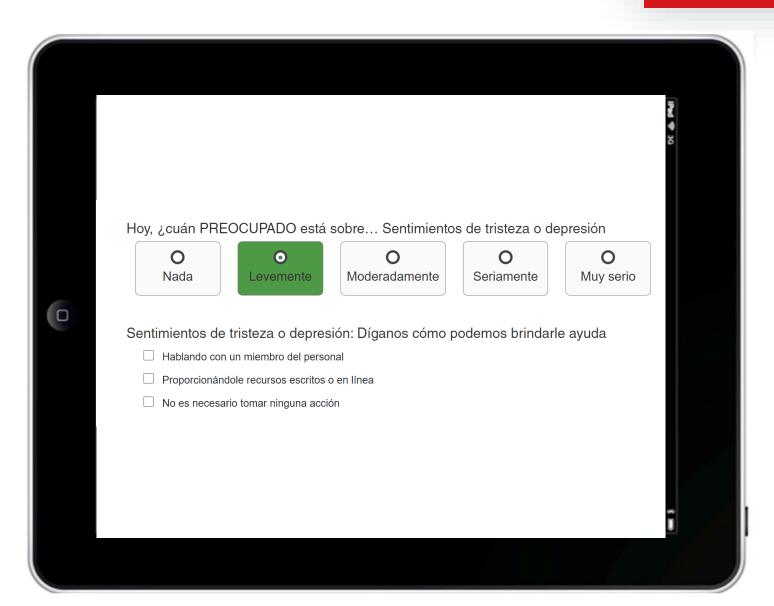


Respondent Completes Screener & Chooses Desired Support



Respondent Completes Screener





Customized and Automated Reports



Respondent Customized **Resource Report**





Nombre: Victoria TEST Fecha de Nacimiento: 01/01/1990 Fecha del Cuestionario: 01/06/2023

Gracias por completar el Cuestionario de angustia de CancerSupportSource®. Este informe se creó especialmente para usted en función de sus respuestas. Es una guía para encontrar la información y los servicios que podrían serle más útiles en este momento. Revise los consejos y los materiales impresos y en línea proporcionados en este informe. Un miembro del personal con gusto repasará este informe con usted y le ayudará a encontrar



Imagen Corporal y Estilo de Vida Saludable No es raro preocuparse por los cambios en su aspecto físico. Algunos de estos cambios serán temporales y

otros más duraderos. El aumento de peso, la caída del cabello y los cambios en la piel suelen reportarse con frecuencia durante el tratamiento del cáncer. Ha identificado sus inquietudes relacionadas con la imagen corporal y un estilo de vida saludable.



Aquí hay algunos recursos en línea relacionados que puede querer

Su imagen física y sus sentimientos respecto a la manera como se ve https://files.mycarereport2. com/22S_SU_IMAGEN_FISICA_Y_SUS_SENTIMIENTOS_RESPECTO_A_LA_MANERA_COM

Automated Staff Report



Bienestar Emocional

Es normal sentir una gran diversidad de emociones en respuesta a un diagnóstico de cáncer, durante el tratamiento del cáncer y después de finalizar el tratamiento. El cáncer puede provocar emociones como tristeza o depresión, ansiedad, miedo y preocupación por el futuro. Si bien algunos problemas pueden ser leves, otros pueden agravarse e impedir que se sienta esperanzado o que sienta que controla su vida. Es importante que obtenga el apoyo que necesita para poder cuidarse mejor. Ha identificado sus inquietudes relacionadas con su bienestar emocional.



Aquí hay algunos recursos en línea relacionados que puede querer

Sentimientos de tristeza o depresión

https://files.mycarereport2.com/22S_SENTIMIENTOS_DE_TRISTEZA_O_DEPRESION.



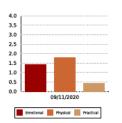
My Support Care Plan

Survey Results

Name: Ellen SAMPLE				
Date of Birth: 01/01/1990				
Date of Screening: 09/11/2020				
Distress score:	30/100			
Risk for depression:	3/8			
Risk of anxiety:	3/8			

Concern Action Required 09/11/20 Today, how CONCERNED are you about... Eating and information I. Slightly Today, how CONCERNED are you about... Feeling irritable I. Slightly Today, how CONCERNED are you about... Moving around Moderately (walking, climbing stairs, lifting, etc) Today, how CONCERNED are you about... Communicating D. Not at all with your doctor Today, how CONCERNED are you about... Sleep problems Very Seriously Today, how CONCERNED are you about... Changes or disruptions in work, school or home life Today, how CONCERNED are you about... Feeling sad or . Moderately depressed Today, how CONCERNED are you about... Transportation to D. Not at all and from treatment Today, how CONCERNED are you about... Pain and/or I. Slightly Today, how CONCERNED are you about... Body Image and D. Not at all feelings about how you look Today, how CONCERNED are you about... Feeling nervous or 2. Moderately information Today, how CONCERNED are you about... Worrying about the Information future and what lies ahead Today, how CONCERNED are you about... Making a treatment 0. Not at all Today, how CONCERNED are you about... Intimacy, sexuality Today, how CONCERNED are you about... Feeling lonely or information Today, how CONCERNED are you about... Health Insurance D. Not at all Today, how CONCERNED are you about... Problems in your D. Not at all relationship with your spouse/partner Today, how CONCERNED are you about... Feeling too tired to information 2. Moderately do the things you need or want to do Today, how CONCERNED are you about... Managing side effects of treatment Today, how CONCERNED are you about... Worrying about). Not at all family, children and/or friends Today, how CONCERNED are you about... Recent weight gain Today, how CONCERNED are you about... Exercising and I. Slightly information being physically active Today, how CONCERNED are you about... Tobacco or drug





Automated At-Risk **Flags**



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Staff Facilitate Referrals and Follow-Up



Review Referrals

Making a treatment decision

Status: In progress

Patient: peyton SAMPLE

Form name:

Doctor:

MRN:

Birthdate: 01/01/1990 Support assigned: Test MYCARE Referral date:

al date: 12/13/2022

Email: peytonyopmail@yopmail.com

Mobile phone:

Status History Update

Date	Reminder Date	Notes	User	
12/13/2022 14:13 PM	-	Add detailed case notes here.	Peyton LENGACHER	Û
12/13/2022 14:12 PM	-	Assigned by Peyton LENGACHER	Test MYCARE	

Automated Report Tracks Referrals History and Status







My Support Care Plan

Referrals History

Name peyton SAMPLE (Male) Date of Birth: 01/01/1990 Date of Screening: 12/13/2022 Distress score: 31/76

Date	Referral	Assigned To	Status	History
12/13/22	Sleep problems	Test MYCARE	Resolved	Assigned by Peyton LENGACHER Add detailed case notes here. Referral closed by Peyton LENGACHER:
12/13/22	Making a treatment decision	Test MYCARE	In progress	Assigned by Peyton LENGACHER Add detailed case notes here.
12/13/22	Worrying about family, children and/or friends	Test MYCARE	In progress	Assigned by Peyton LENGACHER Add detailed case notes here.
12/13/22	Risk for depression	Test MYCARE	In progress	Assigned by Peyton LENGACHER Add detailed case notes here.

V. Summary



Summary

CSS-Spanish is a **psychometrically robust measure of psychosocial distress** among Hispanic and Latino individuals with cancer

CSS-Spanish was created using **gold-standard methods** for translation and an **iterative process** of testing that included feedback from Spanish-speaking Hispanic and Latino individuals living with cancer and a project advisory board

In full program implementation, it can **facilitate distress screening**, **referral**, **and follow-up** to rapidly assess unmet needs and enhance well-being

Benefits of CSS-Spanish can be **optimized when implemented with a strong case management system and access to Spanish-language community resources**

Thank you

efortune@cancersupportcommunity.org