Family Caregivers-Key Members of the Oncology Careforce Technology-aided support beyond the walls of the cancer facility

Kathi Mooney RN, PhD, FAAN

Distinguished Professor, College of Nursing, University of Utah Interim Senior Director Population Sciences Co-Leader Cancer Control and Population Sciences Huntsman Cancer Institute





Family Members Are the Invisible Members of the Oncology Careforce

Caregiving extracts a toll





Family Caregiver Experience of Moderate-to-Severe Health Concerns

Family Caregivers during Home Hospice Care

Concern	4 or > on 10 point scale	%
Fatigue		84
Interference with normal activities		81
Anxiety		78
Disturbed sleep		78
Depressed mood		73





Symptom Care at Home (SCH)

NCI funding PO1CA138317

Automated Family Caregiver Support during Home Hospice Care Randomized Controlled Trial, N=332

- ► Automated daily monitoring of 11 common patient symptoms and 5 indicators of caregiver wellbeing- reported by the caregiver and includes presence, severity (1-10), drill-down
- Automated algorithm-based, just-in-time, tailored family caregiver coaching based on reported patient symptoms and intensity paired with coaching to improve caregiver wellbeing.
- Automated provider alerts (hospice nurse) based on preset thresholds (stepped intervention)





Significant Benefit for Patients Supporting Family Caregivers to be Effective

Overall significantly less symptom severity for patients than usual hospice care; p=.03

Moderate-to-severe patient symptom days reduced by 38% in SCH group compared to usual hospice care; p<.001</p>





Significant Benefit for Family Caregivers

- ▶ 51% reduction in the number of moderate-to-severe symptom days for family caregivers (caregiver fatigue, disturbed sleep, anxiety, depressed mood, interference with normal activities) compared to usual hospice care families (p<.001)</p>
- In SCH (but not UC), caregiver symptom reduction mediated a reduction in patient symptoms (p=.027) thus supporting the caregiver's health translates to improved patient symptom outcomes as well; both are benefited
- ▶ 6 months after the patient's death, SCH spouses showed better bereavement outcomes than UC spouses (p<.007)</p>



Supporting Family Caregivers to be Resilient

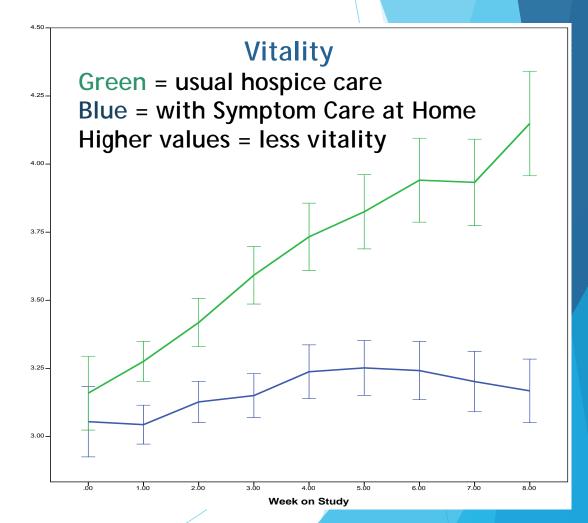
Caregiver vitality maintained during caregiving

Lower fatigue, better sleep, and less activity disruption (p<.001; d=.71)

Caregiver mood

Less disruption in mood anxiety and depressed mood (p=.002, d=.51)





Caregiver Post-Intervention Interviews

- I did my calls at the end of the day and it was a release of sorts for me...the time I spent alone at night to reflect on mom's day and how she did.
- Good outlet/input for me-pointing out I wasn't alone and she was not really unusual.
- It gave me a sense of confidence that what I was seeing and feeling was 'normal'.
- ▶ It helped calm me when I was having a bad day.



- Being able to anonymously tell someone what is going on.
- It felt like someone else was listening to what I had to say. Another person on the team.
- It made me realize I was forgetting who he had been. I was just seeing him as a sick person- that was so helpful so I could change.
- ▶ It got me through the hardest time in my life.



Support When and Where Patients and Family Caregivers Need It Made Possible with Technology

- Automated algorithm-based coaching to aid family caregiving of the patient and also support caregiver well-being- providing tailored, just in time support
- Provider alert system for concerns that exceed preset thresholds- providing a stepped intervention to conserve provider time but notifies provider when intensified patient and family support is needed



