A Company-Wide Initiative to Improve Screening for Vision Impairment

PHILADELPHIA

UNIVERSITY

Background

- Tremendous growth of America's elderly population¹
- Vision impairment prevalence increases with age¹
- Impairments often unnoticed until vision is screened^{2,3}
- Adults expect declining vision with aging^{2,3}
- Impaired vision negatively impacts occupational performance^{4, 5, 6, 7, 8, 9}
- Vision impairments must be identified prior to intervention to improve occupational performance
- · Occupational Therapists (OT) should screen every client's vision
- OT at this company identified this need but were not doing it

Rationale

Number of vision screenings performed by OTs will increase

Objectives

 >1 out 6 point * in knowledge of vision impairment & confidence in screening (6 questions; 1=strongly disagree to

7=strongly agree)

- · 40% of clients will undergo vision screening
- Identify & resolve barriers to vision screening (4 questions)

Methods

Literature review to identify:

- Aspects of vision to be screened
 Valid & reliable screening tools
- Inexpensive screening tools options

Developed & Presented a series of 3 workshops

- Recruitment
- E mails sent to all company OTs
- Verbal requests at start of each workshop

Ethical Approval

- Obtained through company and university IRB
- Informed consent process completed

Workshop design

- Based on principles of adult learning
- Knowledge translation theories applied^{10,11,12,13}
- Participants motivated to learnLecture only not effective driver of change

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Session Content

Session 2

Hands-on Practice

MN Read

- Amsler Grid

- Peripheral Vision

- VF-14 Self Report

- Mars Contrast Sensitivity

- ETDRS

Session 3 Discussion - Case Study Discussion - Reflective Discussion - Resources for: -- Physician referral sources -- Screening tools at each site -- Mentors at each facility

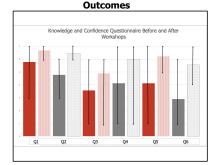
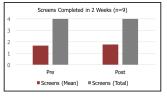


Figure 1. Participants self-report of knowledge and confidence levels pre/post workshops



Session 1

Lecture

- Standardized tools and

low cost options

- Age related vision

impairment

- Conditions to

be screened

Figure 2. Participant's self-report of vision screens completed pre/post workshops



Figure 3. Participants self-report of barriers to vision screening pre/post workshops

Conclusions

Summary:

Comprehensive educational initiative can improve OT staff's self-perception of knowledge and confidence in focus area

Adult Learning Principles

- Multi component interventions impact outcomes¹²
- Tailored intervention can drive behavior change¹⁰
- Reflective practice helps change participants perspective¹³

Participant Satisfaction with Workshop:

- Vision impairment screenings help provide better patient care
- · Felt improved ability to complete vision impairment screen
- Satisfied with teaching methods

Most Beneficial Within the Workshop:

- Tangible resources
- Hands on practice
- Presence of mentor

Barriers to Vision Screening:

Limited knowledge of process and tools are barriers

Limitations

Small sample size completing questionnaires (9) compared to all participants (25)

Number of screens unchanged before and after education. Potential reasons:

- Lack of time
- · 2/9 respondents hand therapists
- Mentor unavailable

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Further information

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