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Location, Location:

Does the use of Virtual Reality 360° images of local hospice upon referral improve patients' perception?

19th Annual All Wales Palliative Care Conference at Gregynog, Friday 18th October 2019

Abstract

- Background: Many patients referred to a hospice may feel anticipatory fear of this unknown environment. Virtual Reality (VR) is a system that allows users to feel present and become immersed in a realistic computer-generated environment and is used for instance by estate agents for house viewings. Velindre Cancer Centre (VCC) in Cardiff uses VR-headsets and 360° photo/video technology on tablet computers to give patients a 'digital tour' of local hospices.
- Aims: To evaluate whether the use of 360° photo tours of local hospices is acceptable to patients/proxy and implementable within a clinical environment.
- Method: 360∘ filming/photography was undertaken in two local hospices and uploaded to VR headsets and media pads. An online survey was created to assess patients'/relatives' experience of 360∘ VR hospice. Patients on the VCC ward known to the Palliative Care team, and/or those who had a hospice referral in place, were offered the digital tour and were included in this survey. Staff who used the technology were asked whether it was easy to use.
- Conclusion: The technological use of 360° hospice photographic views as an introduction can make a difference to patients/proxy and addresses the fear of an unknown environment. Integration of this innovative technology into the clinical environment is feasible and appears acceptable to patients.

Background

- Hospice transfer
- **►** Fear of the unknown
- **► Virtual Reality** (VR)
- **►** Velindre Cancer Centre (VCC) Cardiff
- What did we do? What were our aims?
 - Is this acceptable?
 - Does it impact perception and willingness?
 - Use of VR in a clinical environment

Methods

360° filming and HD photography was undertaken in key areas of two local hospices and uploaded



An online survey was created – assessed patients/relatives experience

6 month period

Patients on the VCC ward offered the 'digital tour' and included in the survey



Staff members who used the technology were asked whether it was easy to use

The view https://ths.li/y3vtf



Showed patient 360 views – then completed survey

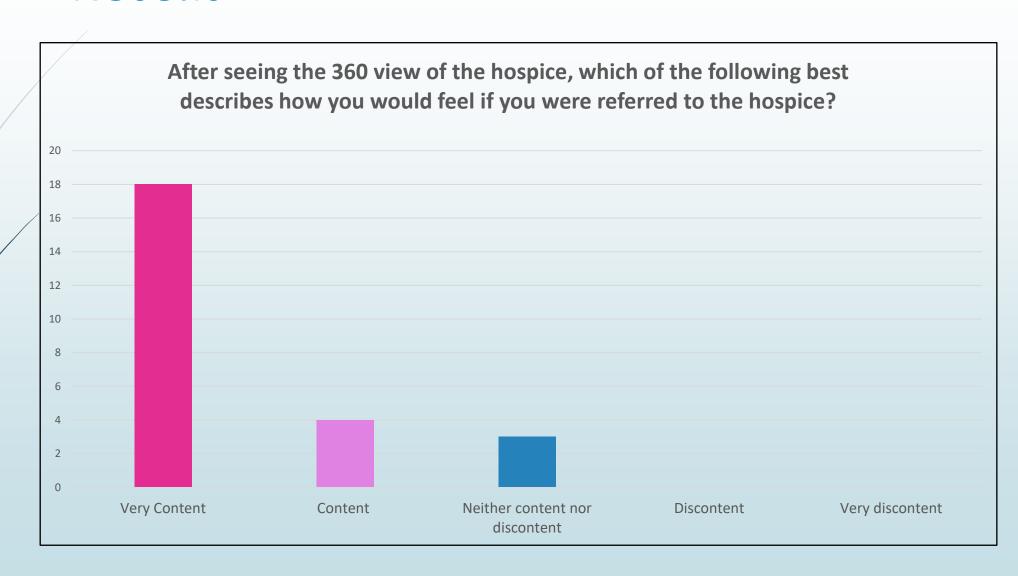
Results

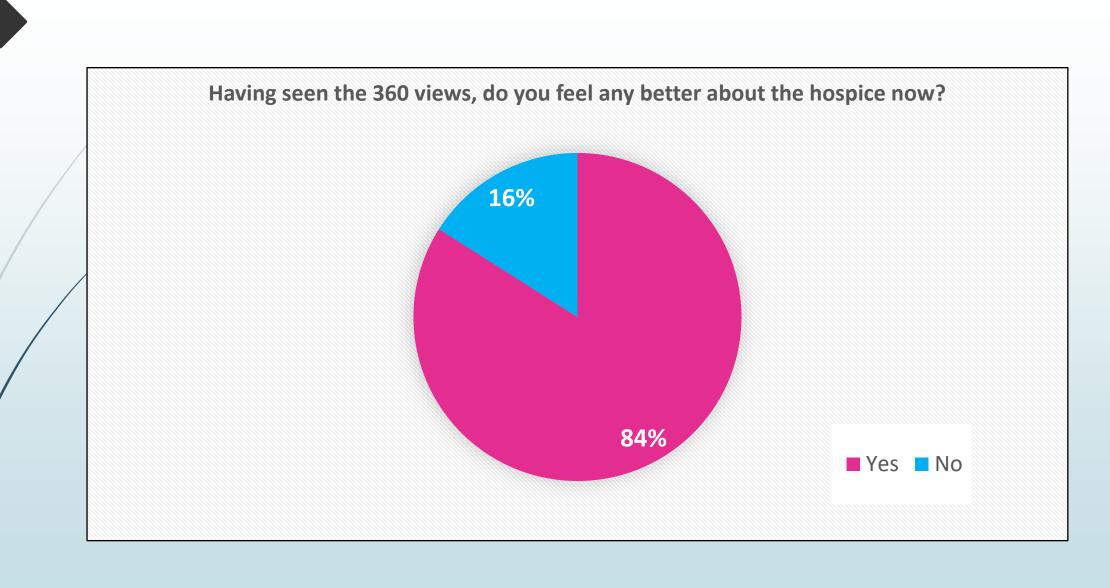
- 25 people surveyed in total:
 - 19 patients
 - 6 family members

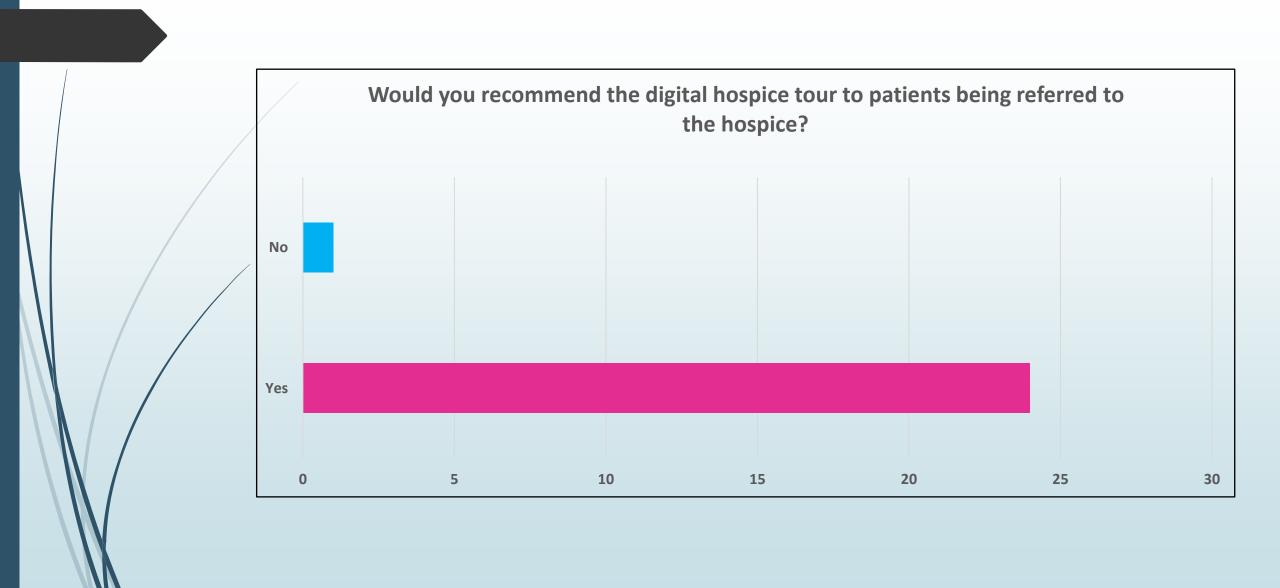


- ■72% never been referred to hospice before
- Active hospice referral in place for 76% of patients surveyed

Results







Staff members opinions

"iPad not left on ward so going back to office can affect momentum/timing"

"Straightforward and easy to use"

"Many patients
commented that the
hospice looked very
different to what they
imagined...improved
their confidence in
going there"

Preferred using the mediapad...easier to set up and patient could zoom around the hospice with me standing next to them for explanation...Helping pt's put on VR headset etc. took longer.

"Using it greatly
reassured a family
about an
impending hospice
transfer for their
relative"

Conclusions

- ✓ The technological use of 360° hospice views can make a difference to patients and addresses the fear of the unknown.
- ✓ 24 out of 25 patients would recommend the VR/360 images to other patients in the same position
- ✓ Integration of this innovative technology into the clinical environment is feasible.

Acknowledgments

- Palliative Care Team, VCC Cardiff
- Marie Curie Hospice Cardiff and Vale and St. David's Hospice, Gwent





