BACKGROUND

- Prostate Cancer (PC) patients have 10-year survival rates approaching 100%.
- Almost all treatments for PC can result in side effects that can impair subsequent quality of life.
- Patient Reported Outcomes (PRO) can be valuable for identifying and promoting the treatment of the physical and psychological outcomes in PC survivors.
- PRO is a valuable tool for research and teaching.

Since April 2017:

- The Prostate Cancer Supportive Care (PCSC) Program implemented systematic collection of electronic Patient Reported Outcomes (ePRO) at the Vancouver Prostate Centre (VPC) Prostate Clinic at Vancouver General Hospital.
- Used an iPad system (figure 1) adopted from the University Health Network in Toronto.
- Participated in a Canadian cancer registry (Prostate Cancer Survivorship 360°, approved by the UBC Research Ethics Board (H16-02631)).

OBJECTIVE

To review the successes and challenges related to the implementation of this system over the past 2 years of use.

METHODS

- Approach all PC patients pre- and/or post-PC treatment in clinic to complete the ePRO.
- Assistance provided for initial profile setup on the iPad and to troubleshoot any problems.

ePRO Measures:

- EPIC-26
- WHODAS 2.0
- EQ-5d-5L
- EORTC QLQ=PR25*

Distress Thermometer

Utilization of Sexual Medicine/Devices*

*Collected as of Aug 3rd, 2017

RESULTS

Non-completion of ePROs:

<table>
<thead>
<tr>
<th>Obtained</th>
<th>Complete 64.4%</th>
</tr>
</thead>
<tbody>
<tr>
<td>incomplete</td>
<td>16.4%</td>
</tr>
<tr>
<td>Missed</td>
<td>15.0%</td>
</tr>
<tr>
<td>No show</td>
<td>0.4%</td>
</tr>
<tr>
<td>Declined</td>
<td>2.0%</td>
</tr>
</tbody>
</table>

Percentage of total expected ePRO instances

- Year 1: 80.8%
- Year 2: 75.4%

Figure 1. iPad set up with ePRO application for clinic use

Figure 2. Number of patients who have completing 0-7 ePRO assessments

Figure 3. Comparison of completion rates and reasons for non-completion between Year 1 and 2

COMPLETED ePROs:

Between April 3, 2017 and March 31, 2019:

- 1027 patients eligible to complete ePRO.
- 85.5% (878/1027) completed ePRO at least once.
- 1075 ePRO instances expected in Year 1.
- 1258 ePRO instances expected in Year 2.

• 1075 ePRO instances expected in Year 1.
• 1258 ePRO instances expected in Year 2.

COMPLETION rates:

1. Year 1 and 2 ePRO completion rate was high.
2. More “no-show” patients in year 2 (1.9%) compared to year 1 (0.4%)
3. Year 1 and 2 “missed” ePROs rate was the same, despite altering strategies and timeframes of approaching patients.

Reasons for Incomplete ePRO reports:

1. WiFi connectivity issues.
2. Patients having to leave clinic.
3. More incomplete ePRO in year 2. This was likely due to the change in WiFi network in early 2018 which caused significant issues with WiFi stability for iPads.

RESULTS

- Eligible patients unable to complete ePRO:
  1. Limited English (n=47)
  2. Limiting disability (e.g. vision or mentally impaired (n=11)),
  3. Not returning to clinic after initial appointment (e.g. back to referring specialist, or seen at BC Cancer (n=15)).

CONCLUSIONS

- ePRO were successfully implemented into clinical practice: high completion and low refusal rates.
- ePRO is playing a growing role in high quality, patient-centred PC care, as well as in supporting important research.

Challenges encountered:

• Training clinic staff and coordinators to direct patients to the iPad to minimize missing ePRO assessments.
• Technical difficulties - WiFi connectivity.
• The REB mandated need for staff to interact with each patient individually to ensure the ePRO assessments are completed.

FUTURE DIRECTIONS

- Provide real-time results of ePRO to urologists.
- Provide alternatives for patients who are unable to complete ePRO due to language or other limitations.
- Continue work to minimizing missed ePRO.

REFERENCES


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Eugenia Wu BSc1, Olga Arsovska MA1, Lindsay Hedden PhD1,2, Maria Spillane MSc1, Michaela Vivar BSc1, Martin Gleave MD1,3, Peter Black MD1,3, Alan So MD1,3, Larry Goldenberg MD1,3, Celestia Higano MD1,3,4

Clinic at the Vancouver Prostate Centre (VPC)

Two Year Review of the Electronic Patient Reported Outcome (ePRO) System in the Prostate Clinic at the Vancouver Prostate Centre (VPC)

To review the successes and challenges related to the implementation of this system over the past 2 years of use.

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