NHS Foundation Trust

Patients' Priorities For Cancer Research:

A Pilot Study

SY Moorcraft¹, A Sangha¹, C Peckitt¹, R Sanchez¹, M Lee², N Pattison¹ and T Wiseman¹ ¹ The Royal Marsden NHS Foundation Trust, London and Sutton, UK. ² Patient representative

BACKGROUND

- · There is increasing interest in involving patients in the development of clinical trials. However, little is known about patients' views on priorities for cancer research and the majority of research ideas are proposed by clinicians or scientists.
- The Macmillan Listening Study¹ identified 15 research themes, of which the top 3 were: 1. Impact on life and how to live with cancer
 - 2. Risk factors and causes

3. Early detection and prevention We performed a 4 week pilot patient survey to investigate the views of patients at the Royal Marsden (RM) on which areas should be priorities for cancer research.

METHODS

• The PACER survey questionnaire was comprised of demographic questions and a list of 12 research themes which respondents were asked to rank according to their perceived priority. Questionnaire distribution:

Table 2: Patient demographics (n = 780)

- Paper questionnaires were available from reception/stands at a number of locations at both RM sites (Chelsea and Sutton).
 - A member of research staff distributed questionnaires for 2 weeks at each site.
 Reception staff in the West Wing Clinical Research Centre and Drug Development Unit
 - distributed questionnaires
- 315 patient members of the RM Foundation Trust were posted a questionnaire or emailed a link to the online survey.
- Patients' responses were put into rank order (highest ranked theme = score 12, lowest theme = score 1, unranked theme = score 0). For themes with the same rank, the average score was used. The theme with the highest overall score was identified as the highest research priority.

RESULTS

Figure 1: Type of cancer

Impact of cancer on the lives of patients and their families Investigating how cancer and cancer treatment impacts on patients' work, financial situation, exercise, sleep Psychological or emotional effects of cancer on patients and their families Assessing how to cope with a diagnosis of cancer/the worry of the cancer coming back/t on patients' families and ways of improving support ng back/the fear of dying, investigating the impa Impact of cancer on patients after treatment has been completed m impact of cancer on patients, e.g. effect on energy levels, body image, sexual or bowel function

Treatment to improve the number of patients who are cured of cancer Developing new drugs or surgical/radiotherapy techniques

Methods of monitoring how well the cancer is responding to treatment Developing new types of scans or blood tests to quickly identify whether a treatment

Table 1: Research themes and explanations

Scientific understanding of cancer which gene

Detection and prevention of cancer

Impact of diet and lifestyle on cancer

Ways of detecting if the cancer has come back

RESEARCH THEMES

Developing new tests to help diagnose cancer (e.g. scans, blood tests), improving understanding of early cancer symptom: Methods of selecting the best treatment for an individual patient

assessing whether diet/exercise/lifestyle can increase the risk of cancer or influence prognosis/treatment effectiveness

Managing/reducing side effects of cancer and its treatment Assessing new drugs or surgical/radiotherapy techniques that might have fewer side effects, improving the treatment of side effects (e.g. nausea, rash, pain, numbness)

Finding ways of identifying patients who could be spared chemotherapy or predicting which treatment will work best (e.g. by looking at the molecular profile of patients' cancers)

use cancer, how cancer grows and spreads and how it can become resistant to treat

- ng new types of scans or blood tests to quickly/easily detect if the cancer has come back Treatment to prolong the life of patients with cancer that can't be cured
 - vestigating new surgical/radiotherapy techniques or drugs





data missing as not all patients answered every qu

Figure 3: Ranking of research themes in order of priority



Table 3: Effect of age on ranking of research themes

Ranking	< 45 years	46-60 years	61-75 years	> 75 years
1	Detection and	Detection and	Detection and	Detection and
	prevention	prevention	prevention	prevention
2	Scientific	Curative	Scientific	Scientific
	understanding	treatment	understanding	understanding
3	Curative treatment	Scientific understanding	Personalised treatment	Personalised treatment
4	Personalised	Personalised	Curative	Curative
	treatment	treatment	treatment	treatment
5	Palliative treatment	Detecting recurrence	Side effects	Response to treatment
6	Detecting	Palliative	Response to	Detecting
	recurrence	treatment	treatment	recurrence

•	Younger patients
	ranked palliative
	treatment and detecting
	recurrence higher than
	older natients

Gender did not influence the ranking of the research themes

• 264 patients also wrote free-text comments. These included:

- Suggestions for other areas of research (e.g. alternative therapies, 11 patients)
- Research into specific tumour types (13 patients)

Specific research proposals (e.g. impact of cancer on patients with dementia, treatment options for cancer in pregnancy)

· The top 4 research priorities were similar for the majority of tumour types, with the exception of patients with lung cancer.

- The rankings for the patients with lung cancer were:
 - 1. Curative treatment 2. Detection and prevention
 - 3. Scientific understanding
 - 4. Palliative treatment

72% of patients with lung cancer were treated with palliative intent (compared to 21 - 54% of patients with other types of tumours).

Patients treated with palliative intent ranked the "palliative treatment" theme higher than patients treated with curative intent

Acknowledgements:

Figure 4: Impact of treatment aim on ranking of palliative treatment 9



CONCLUSION

- This 780 patient survey is the largest survey to date of patients views on priorities for cancer research. Patients' views should be considered when devising research proposals and strategies.
- · Patients' top priority for cancer research was "Detection and prevention of cancer." The top research priorities for patients were remarkably consistent across age, gender and a variety of tumour types.
- The survey will be expanded to other institutions to investigate if these results are applicable to a wider population. This will require a researcher to distribute the questionnaires at each site as this greatly increased the response rates

Aim of treatment



Reference This survey was funded by the NIHR Biomedical Research Centre at the Royal Marsden Hospital & Institute of Cancer Research.

Corner J, Wright D, Hopkinson J, Wright D, Hopkinson J, Gunaratnam Y, McDonald JW, Foster C. The esearch priorities of patients attending UK cancer treatment centres: findings from a modified nominal group study. Br J Cancer 2007;96(6):875-81 .