Assessing the VALue to patients of PROgression Free Survival (AVALPROFS) **Quality of Life Results**



1) Background			6) QoL									
Patients value quality of life (QoL) not just length of life, but QoL data are limited for drugs that have shown only progression free survival (PFS) or modest overall survival (OS) benefits in clinical trials. Hypothetical studies				 Questionnaire completion as shown in the table below, declined from 99% (89/90) to 53% (48/90) at 22 wks. Dropout was highest in groups A and B 								
suggest control of cancer is 'worth' treatment related side effects (SEs). In				Gro	oup	BL	6wks	10wks	14wks	18wks	22wks	
AVALPROFS we examined this premise contemporaneously. Data showing doctors and their patients are overly optimistic about the benefits of					A	35	17	14	8	7	5	
novel drugs have alread	•	•			l	В	13	13	10	9	7	5
	2) Ai				(C	41	39	38	37	36	38
 To measure QoL and emotional well-being of patients with advanced cancers having drug treatments with PFS/modest OS benefits To establish 1) how worthwhile patients felt control of cancer was, 					87							
given the side-effect treatment to continu	•		•									
	3) Met			:	83				\checkmark			
 QoL measured at bas 	•		proofter using		81							
FACT-G [physical (P),						$\mathbf{\times}$			\sim	\		
being (WB)] and Anti					79						\backslash	
 Study specific interviews with patients at:- BL, 6 wks, progression and if treatment stopped due to toxicity 					77							
 Trade-off type questions exploring worthwhileness of treatment given 				Mean FACT-G over time (high scores = good QoL)								
the possible and experienced SEs at different degrees of severity (Grade descriptions modified from CTCAE)				/5	Baseline	e 6v	vks 1	0wks	14wks	18wks	22wks	
4) Results												
 90/120 (75%) eligible patients (life expectancy of > 6 mths) participated Main sites of metastases lung (50%), bone (26%) and liver (21%) 				1	23	_						
 Treatments included cancer growth inhibitors, monoclonal antibodies 			1	10				0				
+/- chemotherapy		Company City	NL 00	T	18							
Demographics Sex: Male; Female	N=90 39; 51	Cancer Site Lung	N=90 30	1	10		`					
Age (Yrs) Mean;	65	Melanoma	19	T	13		\mathbf{n}		\setminus			
Range	32-85	Breast	18	4	~~					\backslash		
Partner: Yes	58	Renal	10	1	08							
Employed: Yes	27	Gynae Head & Neck	3			Mean Trial Outcome Index (TOI = PWB, FWB, + AA)						
Stage of disease	10; 80	Colorectal2Sarcoma1	2 1	1	03	Baselin	e 6v	wks 1	Owks	14wks	18wks	22wks
 36 patients died or progressed during study (Group A) 4 had treatment breaks and 9 stopped due to toxicity (Group B) 41 remained on treatment in study for 6 mths without progression (Group C) 				MID: dete	s (clinica rmine p	ally releva proportior	ant changes	s) were use	d over time d in respon oved or did	der analyse	s to	
5) Treatment related side effects					atea	ach time	e point		_			

- By 6 wks 66/69 (96%) were experiencing treatment related SEs
- Worst SEs were fatigue (35%), diarrhoea (17%) & skin rash (15%)
- Only 1 patient with progression expressed regret about treatment

"I feel some regret that I have spent time taking something that made me *ill and didn't work, it made me worse"* (Grade II skin rash, fatigue)

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Fewer Group A and B patients improved or stayed the same compared to **Group C**

Group	Α	В	С
FACT-G	14%	38%	64%
ΤΟΙ	19%	46%	59%

"It's been horrendous, haven't been any benefits at all, QoL down hugely since I last saw you, but no regrets I had to try it" (Grade III dyspnoea, fatigue, nausea and Grade II diarrhoea)

Interview

Baseline

Yes - worthwhile

6 weeks Yes - worthwhile

With this Grade SE how long do you require the treatment to control the cancer for you to consider it a worthwhile treatment for you?

Baseline

Min 6 mths bene

6 weeks

Min 6 mths bene

"To have severe side-effects I'd want more return from treatment. 6 mths is not enough, at least a year controlling the cancer"

Ref: Fallowfield LJ, Catt SL, May SF, Matthews L, Shilling VM, Simcock R, Westwell S & Jenkins VA "Therapeutic aims of drugs offering only PFS are misunderstood by patients and oncologists may be overly optimistic about likely benefits." Supportive Care in Cancer 2017 25 (1): 237-244.

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7) Emotional well-being

• Patients who stayed on treatment without signs of progression, were less worried about dying at 6 mths (24%) than they were at BL (41%) • Many felt that they had to try treatment even if outcome was not good

8) Trade-off type questions

Is (or would) the benefit of the drug in terms of controlling the cancer be worth the following Grades of SE severity?

	Grade I	Grade II	Grade III		
2	95%	88%	44%		
	97%	89%	52%		

efit	17%	29%	34%
efit	15%	25%	35%

 As the possible severity of SEs increased patients were less inclined:-• at BL to feel that the benefit in terms of controlling cancer *would be* worthwhile (X^2 =75.6004. p < 0.00001)

• or at 6 wks that benefit *was* worthwhile ($X^2 = 50.6896 \text{ p} < 0.00001$) • At Grade III >1/3rd required treatment to control cancer for ≥ 6 mths

9) Summary & Conclusions

Despite life expectancy \geq 6 mths being an entry criterion many (40%) patients died or progressed during the 6 mths study

• Those who remained on treatment in study without signs of progression reported good QoL and emotional well-being

• Side effects experienced (especially fatigue, diarrhoea and skin rash) were problematic enough for 14% to have breaks or stop treatment • Most felt treatment worthwhile but as SE severity increased they

required much lengthier periods for it to continue controlling the cancer • These periods were substantially longer than the PFS shown in clinical trials for most of the drugs used

• More research into ameliorative interventions for worst SEs is needed to make treatment with drugs offering only PFS worthwhile