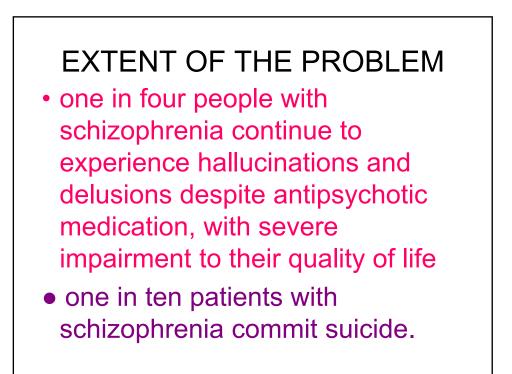
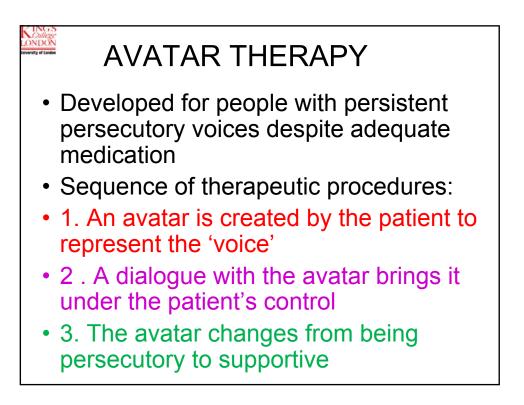
AVATAR THERAPY FOR AUDITORY HALLUCINATIONS

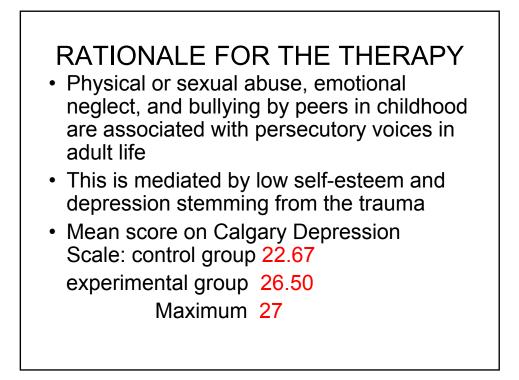
JULIAN LEFF MARK HUCKVALE GEOFFREY WILLIAMS ALEX LEFF MAURICE ARBUTHNOT

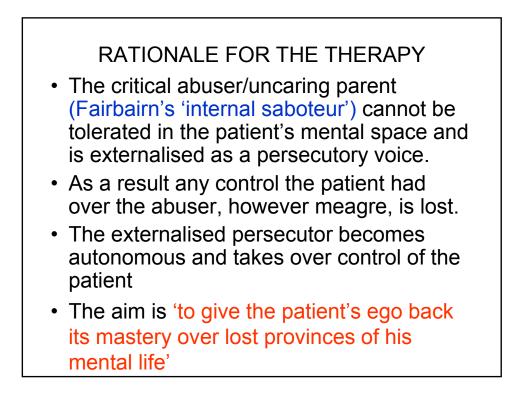


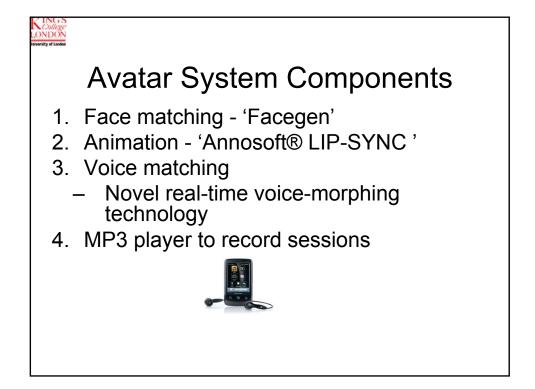


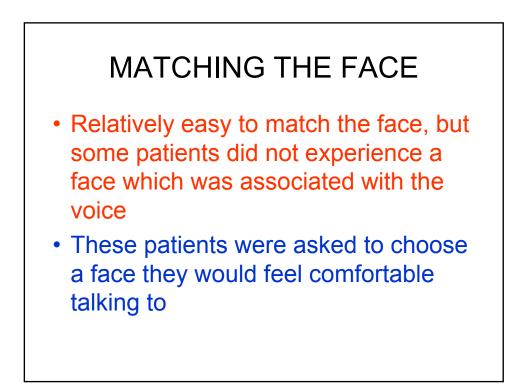
- when asked about the worst aspect of hearing persecutory voices, many people say 'the helplessness'
- people who are able to establish a dialogue with the 'voice' feel much more in control (Nayani & David, 1996)

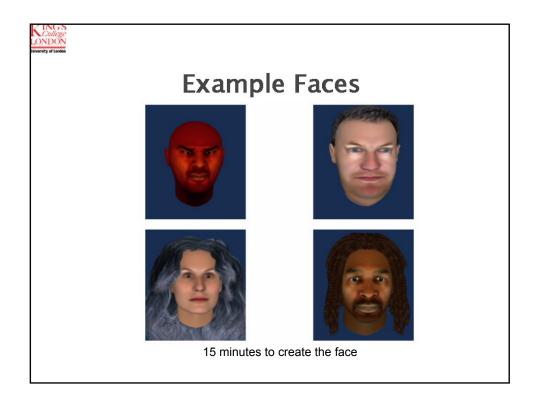


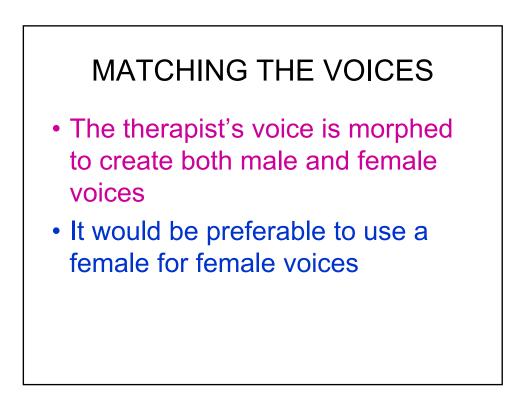


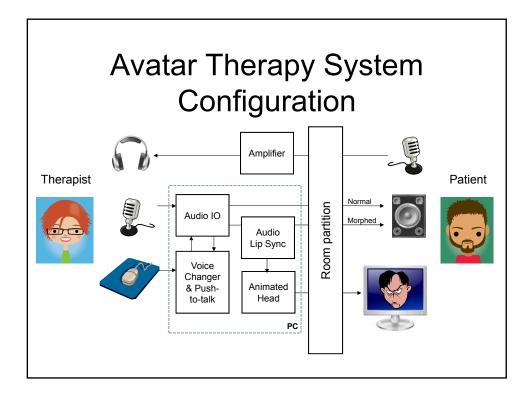




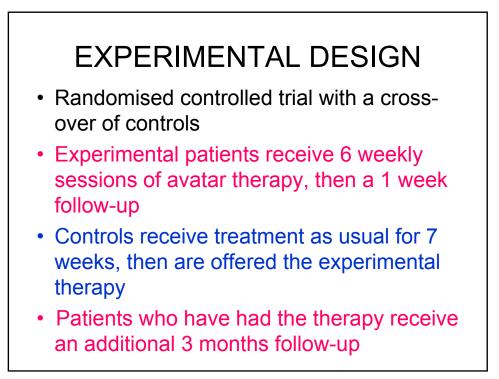


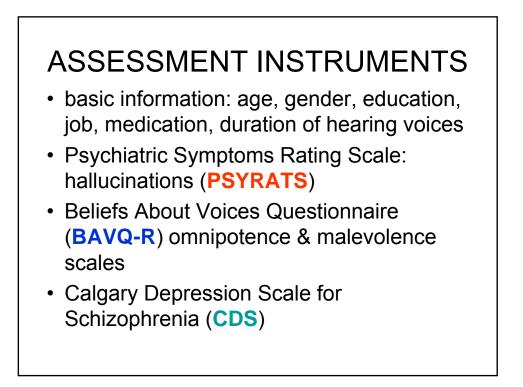












FOLLOW-UP ASSESSMENTS

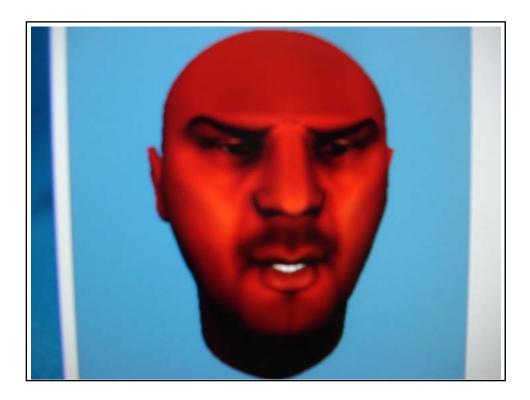
- Conducted by a user-researcher who has heard persecutory voices in the past but has been free of voices for 8 years
- He is blind to the treatment status of the participants and the trial design



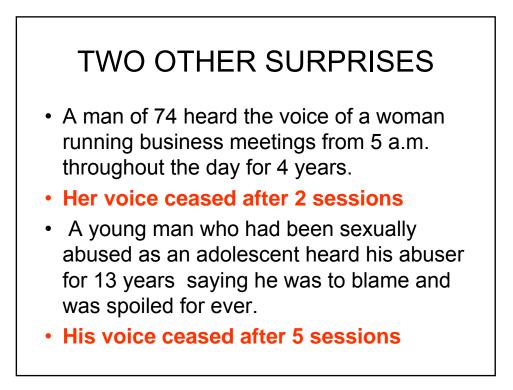
- 26 Participants recruited from community mental health teams in North London
- 14 Randomised to therapy and 12 to treatment as usual
- All controls followed up at 7 weeks
- 8 Controls accepted therapy
- 8 Experimentals completed therapy
- A total of 16 participants received therapy
- All 16 were followed up 3 months after the end of their therapy

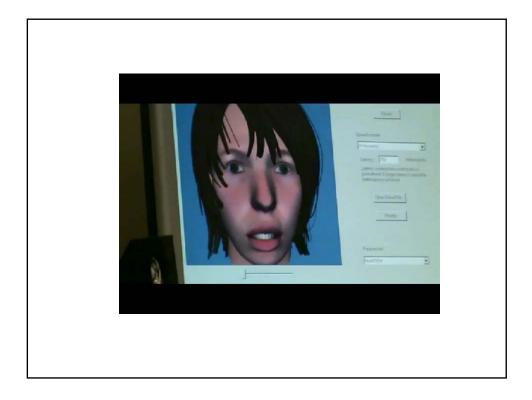
26 PARTICIPANTS

- Age: range 14-74
- Mean 37.7
- Gender: female 10, 38.5%
- Length of time hearing voices: range 3 ¹/₂ ->30 years
- Mode: >10 years









William: CHANGES OVER TIME							
TIME	VOICES	DEPRESSION	LOW SELF- ESTEEM				
BASELINE	30	11	2				
AFTER THERAPY	30	7	2				
3 MONTH F-U	24	3	1				

CHANGES IN TOTAL SCORES						
BETWEEN GROUP EFFECTS	PSYRATS -8.75 P= 0.003	BAVQ -5.88 P= 0.004	CDS -0.94 NS			
CONTROL GROUP TAU vs Therapy		T1 to T2 P= 0.042	T1 to T2 NS			

FOLLOW-UP DATA							
	PSYRATS	BAVQ-R	CDS				
3M Follow Up vs	-3.5	-1.14	-2.8				
Post Treatment	P< 0.029	NS	P= 0.052				
NS: not significant	1	1					

THREE MONTH FOLLOW-UP

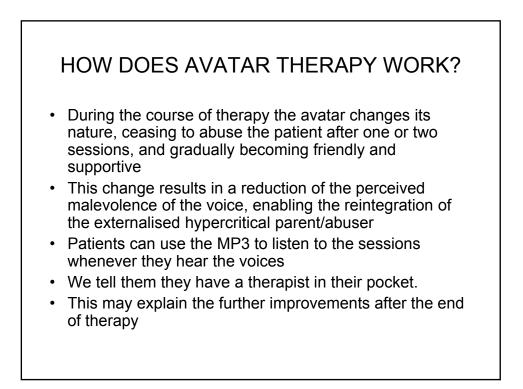
- Patients continued to improve : Further significant reduction in PSYRATS
- Significant reduction in Depression score
- Probably due to use of MP3
- The 3 patients whose voices ceased: voices still absent

PLANNED SUBSIDARY ANALYSIS

- Reduction in suicidal thoughts P=0.034
- Power calculation based on a reduction of 35% in Omnipotence score
- Reduction in Omnipotence score 29% at end of therapy
- 37.9% at 3 month follow-up



- Validation of the patient's experience
- Patients interact with the avatar as though it is a real person, but since it is their creation they know it cant hurt them
- They learn to stand up to the avatar and take control of it
- This generalises to the persecutory voice leading to a reduction in its perceived omnipotence



2 publications on Avatar Therapy

 Computer-assisted therapy for medicationresistant auditory hallucinations: proof-ofconcept study. Leff,J.,Williams,G., Huckvale, M.A.,Arbuthnot, M., Leff, A.P. British Journal of Psychiatry, 208, 428-433.

2 publications on Avatar Therapy

- Psychosis online
- Avatar therapy for persecutory auditory hallucinations: What is it and how does it work? (same authors) March 4, 2013
- http://dx.doi.org/10.1080/17522439.2013.7 73457