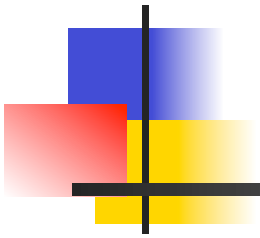
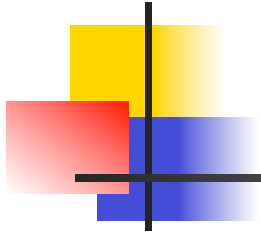


Patients' psychosocial adaptation with an integral limb prosthesis



Chris Basten
Clinical psychologist



conflict
of
interest?



What are we trying to improve?

- “Adaptation to chronic illness and disability is a dynamic, gradually unfolding and progressive process through which the individual strives to reach an optimal state of person-environment congruence referred to as adjustment...”.
- Livneh & Antonak (1997)



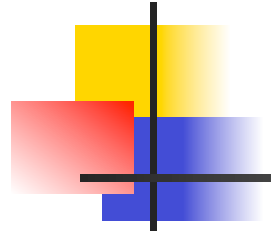
Livneh & Antonak (1997)

- **Adaptation** has several indices:
 - (1) successful negotiation of the environment
 - (2) reintegration (psychosocial equilibrium);
 - (3) awareness of remaining assets;
 - (4) positive self-esteem, self-concept, and sense or personal mastery;
 - (5) active participation in social, vocational and recreational activities.



Osseointegration Sample: Key Psycho-Social outcomes

- Mobility in environment / community
- Vocational functioning
- Social re-integration
- Body-image / confidence
- Intimate relationships and sexuality
- Mood
- Quality of life



**How might an integral limb
system improve
psychosocial outcomes?**

Some hypotheses



Hypothesised advantages

- With better mobility and with fewer socket prosthetic problems, the recipient may experience
 - More energy for personal interests
 - Increased confidence
 - Better self-reported quality of life
 - Better self-esteem and social confidence
 - Better mood



Potential Disadvantages

- Will any recipients find that the external fixture has a negative effect on confidence, body-image, social reintegration or relationship functioning?



Our outcome measures

In addition to the OT measures:

- Trinity Amputation Prosthesis Experiences Scales (TAPES)
- Return to Normal Living Questionnaire
- Amputee Body Image Scale (20-item)
- Depression Anxiety Stress Scales



Integral limb prosthesis

Pilot sample:

- N = 9 (6 male; 8 employed)
- Mean age: 53 y
- 8 were in a relationship
- Mixed follow-up periods
 - Range = 8 – 17 weeks

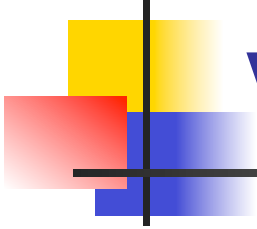


OI pilot Sample: Body-image

All **anticipated** no problems with body-image in intimate relationships and the broader community.

All found that the OI limb system either did not change or enhanced their confidence with their appearance

(Is the follow-up too short thus far?)



OI pilot Sample: Voc Function / reintegration

Case-by-case description thus far is positive



OI pilot Sample: Mood & Return to Living

- No measurable changes on DASS
 - Perhaps a function of our small sample
 - Perhaps a 'ceiling effect'
- RNL (analogue of quality of life)
 - No change on average; some individual positive comments (about ability to wear prosthesis longer)



Future outcome monitoring

- We intend to keep gathering data on emotional + social + relationship outcomes
 - The 'function' is all-important
- Better data
 - Longer follow-ups
 - More inclusive



Screening

- Smoking, etoh, substances
- Expectations
- Hx of pain and opiate use
- Hx of managing own rehab well
(internal locus of control)
- Current depression; PTSD
- Social supports; living situation



Summary and Conclusions

- Naturalistic, cohort study (ongoing)
- The integrated limb prosthesis seems well accepted by recipients
- We hypothesise that it will improve some of the key areas of psychosocial function
- We are yet to confirm these hypotheses (not because of disconfirming data but due to the lack of good quality data as yet)

Welcome to the Club.

Suddenly, unexpectedly;
you're in the club



And then, around you,
you begin to discover others
who are also members of
the club and you see a
sweetness in them that you
hadn't seen before.



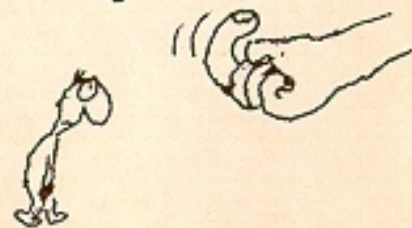
The club you dreaded
The club you mocked



And you enter into a new
world of telltale signs; of
gentle knowing looks,
little smiles of recognition
and fellowship; and you
begin to see what a
HUGE club this is;



It's your turn now.
You've joined the club.

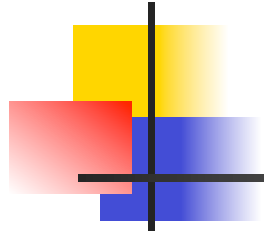


..what a HUGE, OLD, STEADY,
club this is. How tender and
deep its wisdom; how quiet
its strength; how gracious
and consoling its motto,
"RISUS OMNIA — INCREMENTUS
PER DEDECUS — SAPIENTIA PER
DAMNUM"

(EVERYTHING IS FUNNY — GROWTH
THROUGH HUMILIATION and WISDOM
THROUGH LOSS)



Leung



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Patients' psychosocial adaptation with an integral limb prosthesis

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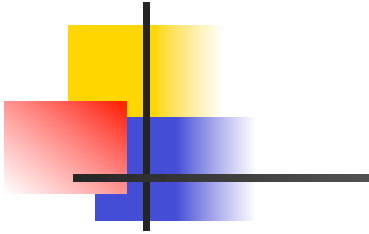
Positive Adjustment. Depends on...

- Age
- Time since amputation
- Coexisting medical problems
- Pain
- Activity restriction
- Quality and number of social supports



...cont.)

- Depends on:
 - Attitude / Cognitive Variables
 - Optimism *
 - Locus of control / Accepting responsibility
 - Active Coping (VS passive)



The four basic personality types



...cont.)

- Depends on:
 - Attitude
 - Optimism *
 - Locus of control / Accepting responsibility
 - Active Coping (VS passive)