Lessons learned from the first successful penis transplant

Lesson one – correct indication
Penis gangrene
Phallus loss
Problem

- 1. Young men now infertile
- 2. Psychological effects of failure
- 3. Psychological effects of body image change
- 4. Out casted by family and friends
- 5. Rejected by potential wife

- 6. “dead”
- 7. “cannot perform duties”
Lesson 2: Current solution not a proper gold standard

Free flap reconstruction
Vascularized composite tissue allograft transplantation (VCTAT/VCA)

Transplants of organs composed of multiple tissue types that express different degrees of antigenicity
Penile transplantation

• One case – early reversal
• Severe ethical/psychological considerations in VCA, even more so in penile transplantation
Lesson 3: Psychological issues must be addressed

• Post transplantation psychosis more common than other surgeries

• Related to 2 domains:
  – Life/death anxieties
  – 2. Organ “robbed” - primitive emotions

• Stable persona
Lesson 4: Ethical considerations are vital

• Benefits vs. Disadvantages??

• Also, as it is a step forward for contemporary medicine (e.g. it may be a last option for ED treatment) it raises the issue of vulnerable research subject abuse

• Innovative alliance?
Lesson 5: Facial transplant model ethics – keep media out

- Face/Off - movie
Lesson 6: Immunosuppression – get the experts involved

• Similar to renal/face transplant transplant

• Compared to heart/kidney the penis is not a vital organ

• However as much justification can be given as for other CTAT.
Lesson 7: Team needed

- Transplant immunologist – Prof Moosa Drs Nel rest renal Drs
- Plastic surgeons – Prof Frank Graewe Dr Alex Zulke
- Urologists – Dr Zarrabi Dr Du Toit - Registrars
- Ethicist – Dr Nicola Barsdorf
- Transplant coordinators – Srs Bailey and Solomons
- Dermatologist – Dr Willie Visser
- Pathologist -Dr William Bates
- Psychologist – Mr Colin Mitchell
- Referral base: Dr Ian Vlok, Drs Russell Dunnat, Zamira Keyser
- Management -Drs Andre Muller, Dimitri Erasmus, Kurt Maart
Lesson 8: Practice
Lesson 9: Stay calm, and carry on
Lesson 10: Harvest vessels proximally
Lesson 12: Donor phallus
Lesson 13: use inferior epigatric vessels
Lesson 14: Don’t use a transurethral catheter
Daily doses of immunosuppression administered in the first 24 weeks. Bolus doses of tacrolimus was given on day 6, 8 and 10 to maintain a trough level between 10-15ng/ml. The nocturnal dose of tacrolimus was omitted on day 13 due to toxic trough levels.
Lesson 16: Expect complications
SF-36v2® Health Survey

11/06/2015

YOUR SCORES

Survey Date: 08/06/2015

PHYSICAL HEALTH SUMMARY 37

37

WORST 30 40 50 60 70 LEAST

US AVG. BEST

Your physical health score is very much below average, even taking into account the margin of error.

MENTAL HEALTH SUMMARY 25

less than 30

WORST 30 40 50 60 70 LEAST

US AVG. BEST

Your mental health score is very much below average, even taking into account the margin of error.

WHAT YOUR SCORES MEAN

Based on your answers about health in the past 4 weeks, our research shows that:

Compared to the general population...

Physically, your...

- functioning is worse
- pain is very much worse
- performance of work, home or school activities is worse

Emotionally, your...

- bothered more than most
- participation in social activities is much more limited
- performance of work, home and school activities is limited more

Overall, your...

- rating of your health is much worse
- energy level is lower

Compared to others...

- your physical health appears to be much worse
- your emotional health appears to be much worse

YOUR PROGRESS

Date Physical Health Mental Health Summary Summary

Current: 08/06/2015 37 25

This is the first time you have completed the survey. We will report changes in scores the next time you complete this survey.

WHAT YOU SHOULD DO

- Schedule today an appointment with your doctor to discuss the impact that your personal and emotional problems are having on your life.
- In one month, take this survey again to continue monitoring your progress.
- By showing this report to your doctor or other health care provider, you can work together to make sure that your physical and mental health are as good as they can be.

Note: This survey is not a diagnostic tool. It is intended to supplement, but not replace or contradict the advice of your personal physician.

If you have any questions or concerns about your health, it is always a good idea to seek one-on-one professional medical consultation.

This report utilizes normative data from the QualityMetric 2009 General Population Sample.

SF-36v2® Health Survey

11/06/2015

YOUR SCORES

Survey Date: 05/06/2015

PHYSICAL HEALTH SUMMARY 60

60

WORST 30 40 50 60 70 LEAST

US AVG. BEST

Your physical health score is above average, taking into account the margin of error.

MENTAL HEALTH SUMMARY 57

57

WORST 30 40 50 60 70 LEAST

US AVG. BEST

Your mental health score is above average, taking into account the margin of error.

WHAT YOUR SCORES MEAN

Based on your answers about health in the past 4 weeks, our research shows that:

Compared to the general population...

Physically, your...

- functioning is better than most
- pain is much less
- performance of work, home or school activities is the same or better

Emotionally, your...

- bothered less than most
- participation in social activities is less limited
- performance of work, home and school activities is limited less

Overall, your...

- rating of your health is much better
- energy level is much higher

Compared to others...

- your physical health appears to be much better
- your emotional health appears to be better

YOUR PROGRESS

Date Physical Health Mental Health Summary Summary

Current: 05/06/2015 60 57

This is the first time you have completed the survey. We will report changes in scores the next time you complete this survey.

WHAT YOU SHOULD DO

- In three months, take this survey again to continue monitoring your progress.
- By showing this report to your doctor or other health care provider, you can work together to make sure that your physical and mental health are as good as they can be.

Note: This survey is not a diagnostic tool. It is intended to supplement, but not replace or contradict the advice of your personal physician.

If you have any questions or concerns about your health, it is always a good idea to seek one-on-one professional medical consultation.

This report utilizes normative data from the QualityMetric 2009 General Population Sample.
Conclusion

• Team effort, this project creates HOPE for the hopeless