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ALL DIZYGOTIC 70% OF 30% OF MONOZYGOTIC MONOZYGOTIC

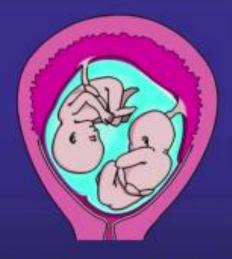
1% OF MONOZYGOTIC



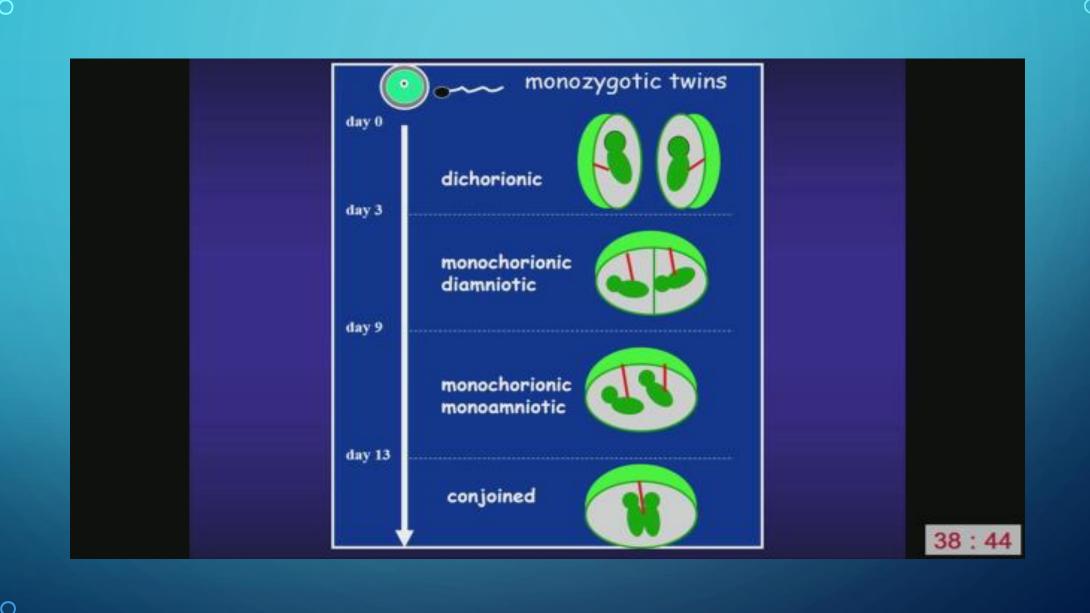
DICHORIONIC



MONOCHORIONIC DIAMNIOTIC



MONOAMNIOTIC



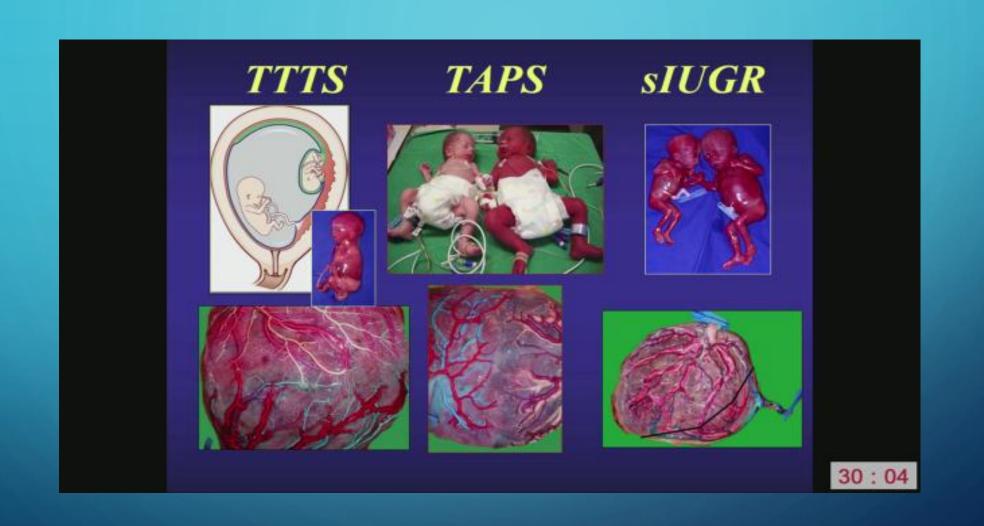


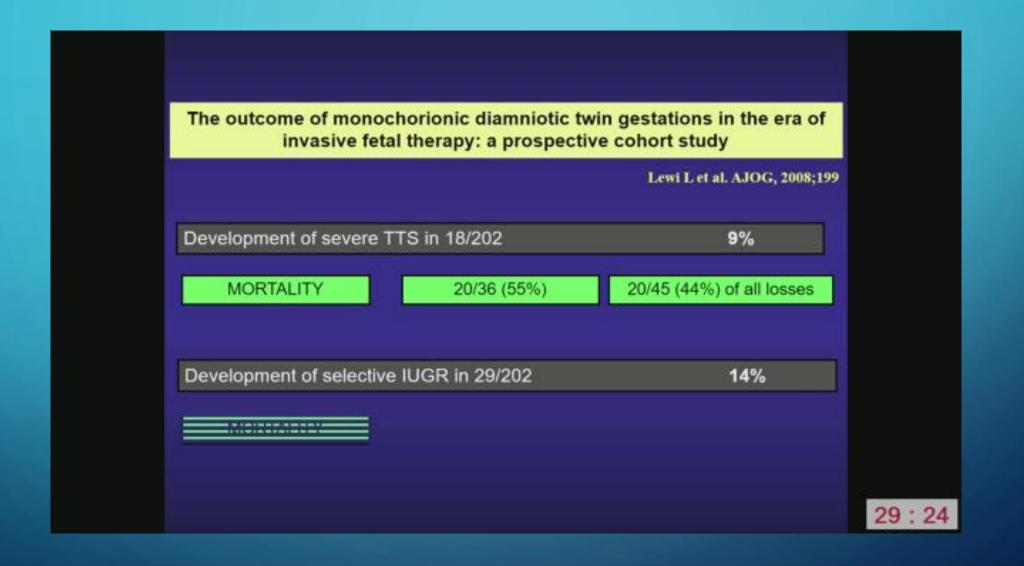


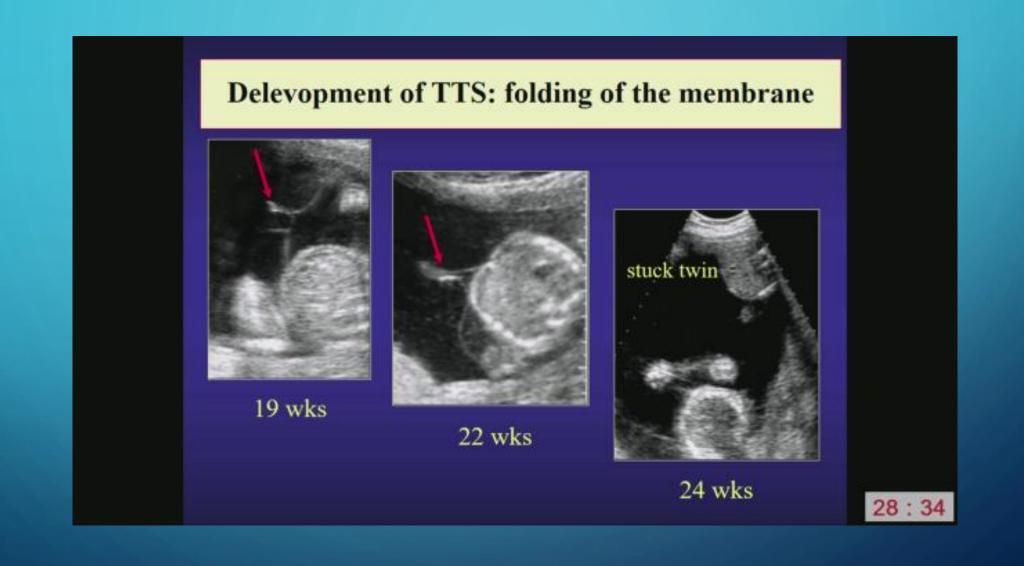


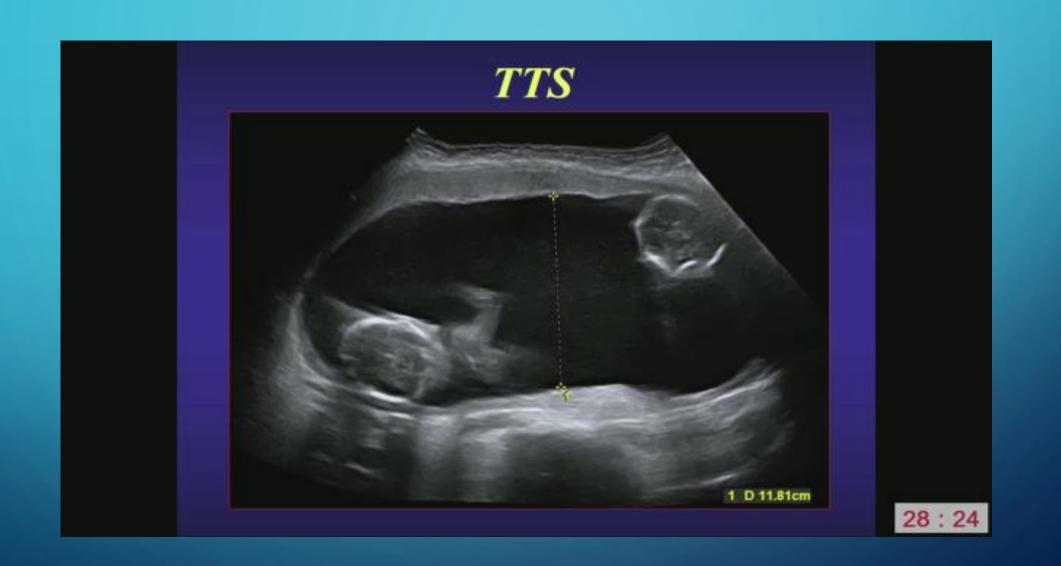


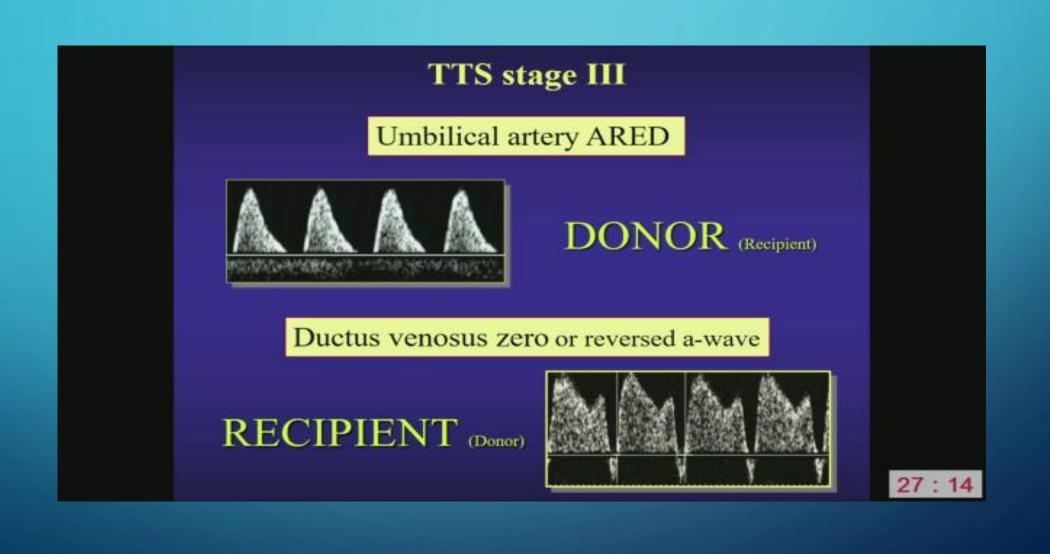


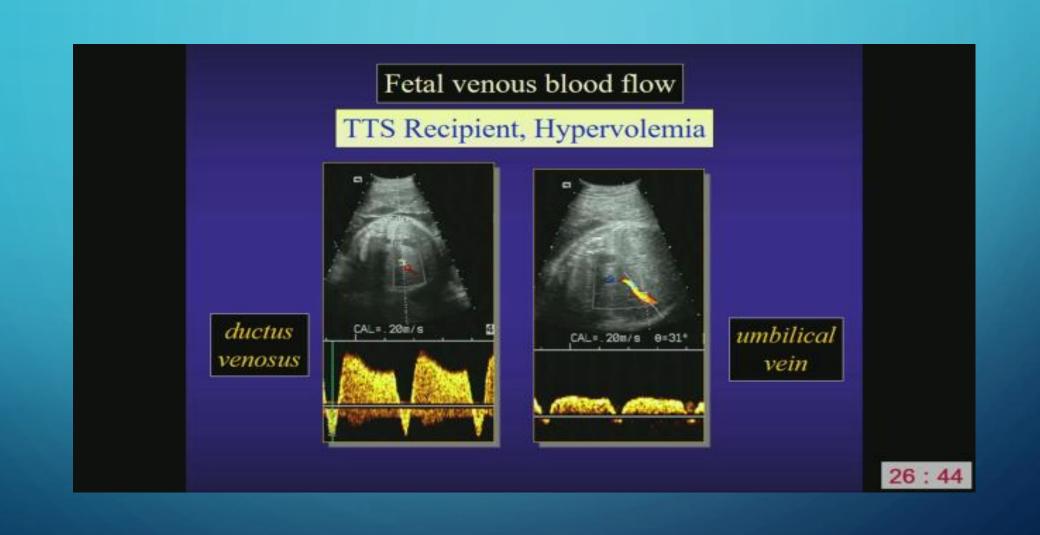




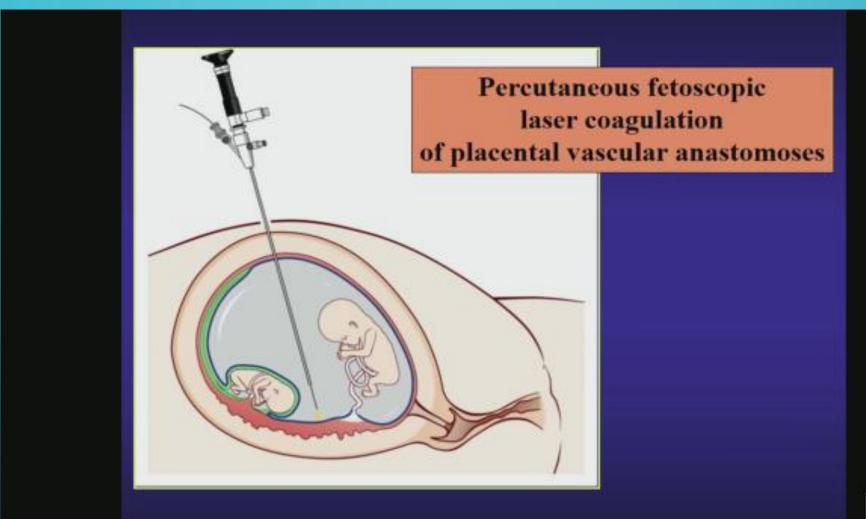


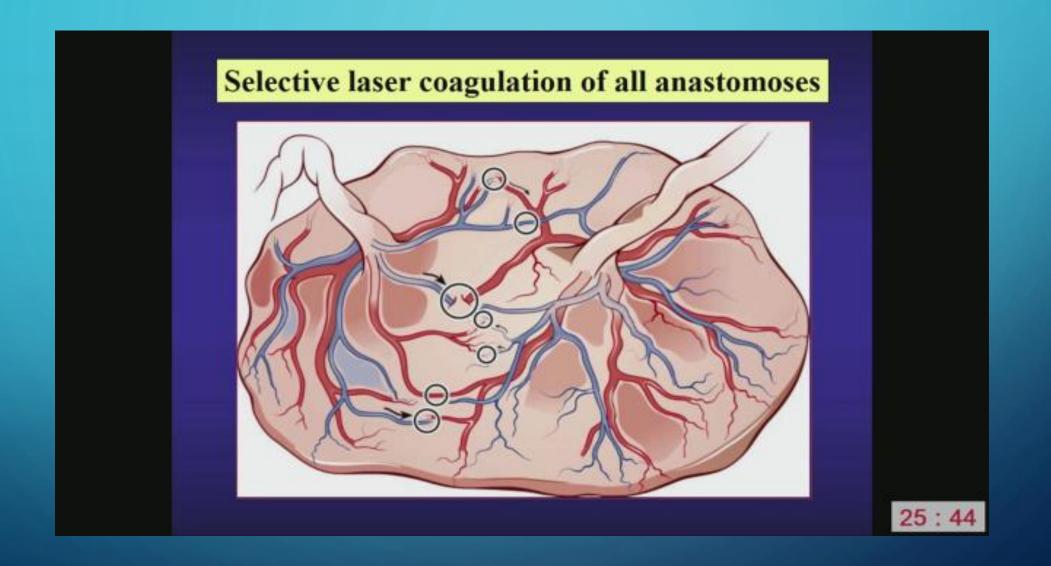






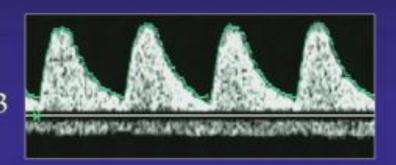








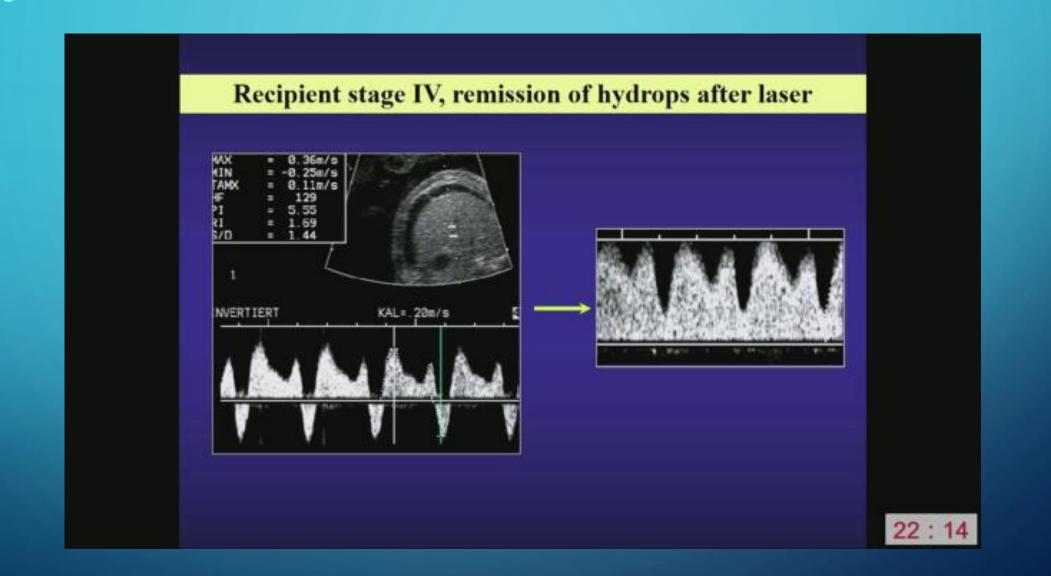
UA: reoccurence of positive EDF 1/3

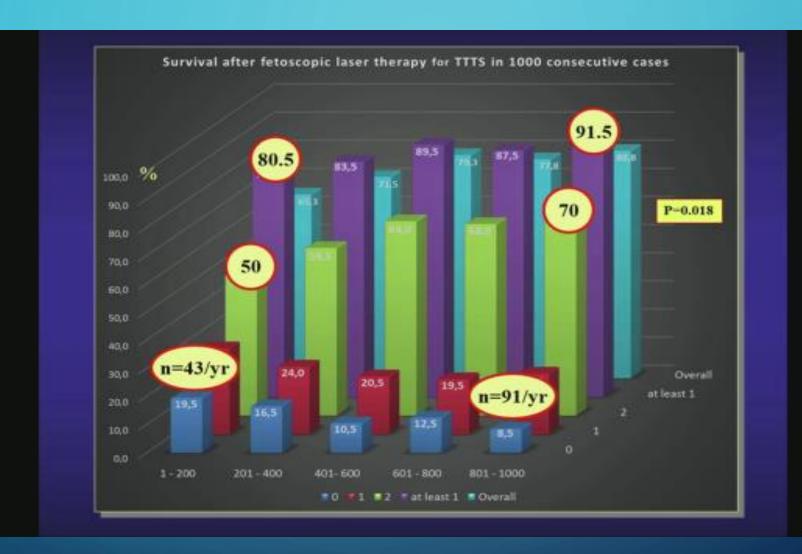


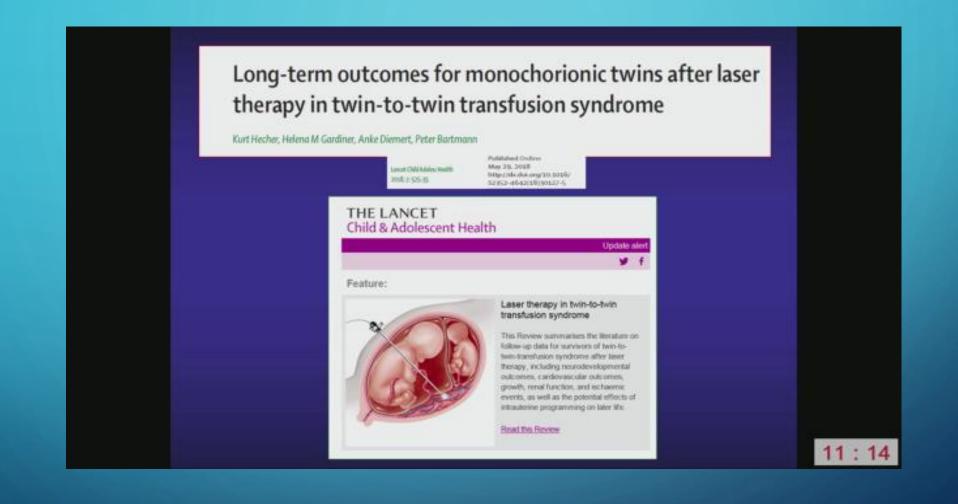
DV: reverse a-wave



Zikulnig UOG 1999 Gratacos UOG 2002







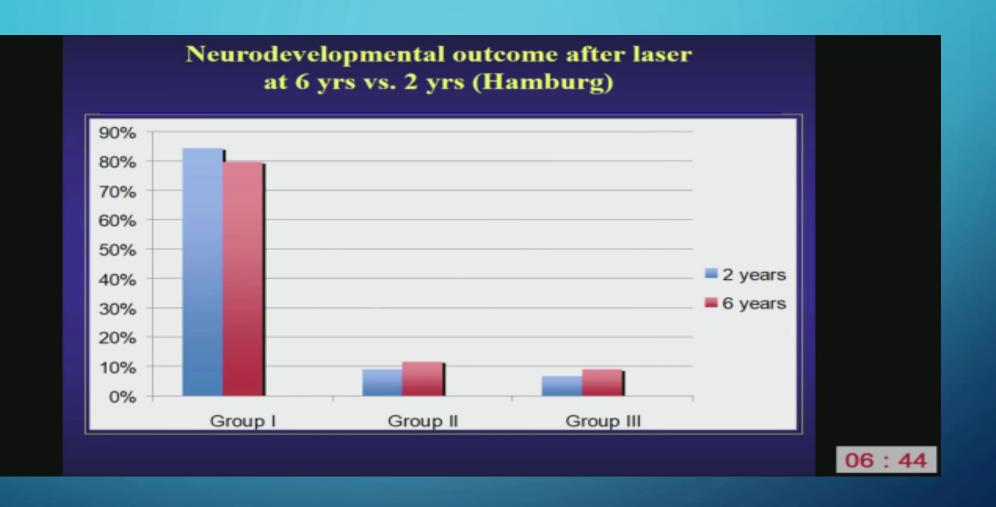
Long-term outcomes for monochorionic twins after laser therapy in twin-to-twin transfusion syndrome

Key messages

Earl Harber Helmo M Gardiner, Anie Diemett, Peter Bustimans

- Evidence suggests that laser therapy, which treats the cause of twin-to-twin transfusion syndrome (TTTS), results in a higher neurologically intact survival rate than do symptomatic therapies such as serial amnioreduction.
- The incidence of severe neurodevelopmental impairment is between 4% and 13% and remains stable in children aged between 2 and 6 years. Low gestational age at birth is independently associated with neurodevelopmental impairment.
- Measurements of cardiac function in prepubescent children after TTTS are within normal limits and at 10 years of age, systolic and diastolic blood pressure are normal in most cases (>90% of cases).
- The prevalence of congenital heart disease in surviving children is 10% (about 10-20 times higher in twins with TTTS than in singletons), mostly because of the increased prevalence of right ventricular outflow tract obstruction in recipients.
- Long-term studies of cardiovascular responses to exercise will clarify whether the
 resolution of cardiac dysfunction in recipients after laser therapy is maintained during
 adulthood, or whether fetal programming has occurred and warrants lifelong
 surveillance.
- Standardised core outcome measures are needed for future long-term follow-up studies of survivors of TTTS.

Lancet Child Aufolise Health 2018; 2:535-35



Conclusions

- Double survival is the primary aim of laser therapy and there is a significant increase with growing experience and technical improvements
- Increased survival rates do not lead to increased handicap rates

THANK YOU