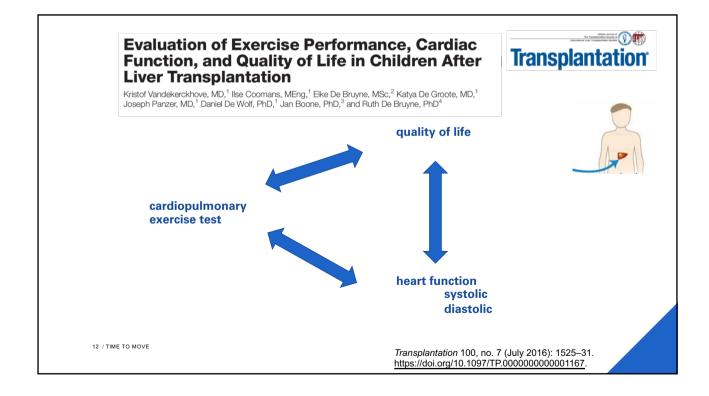
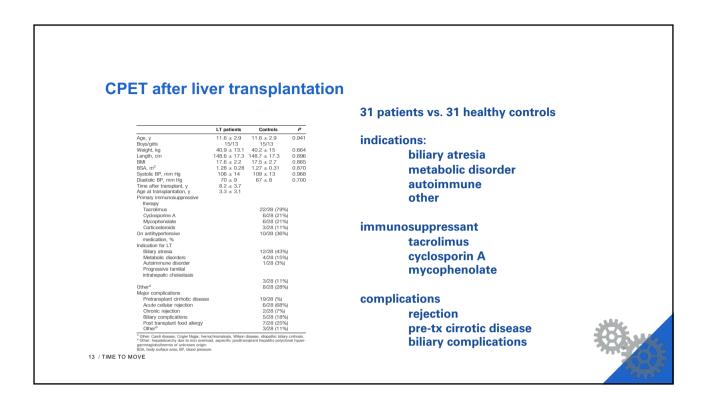
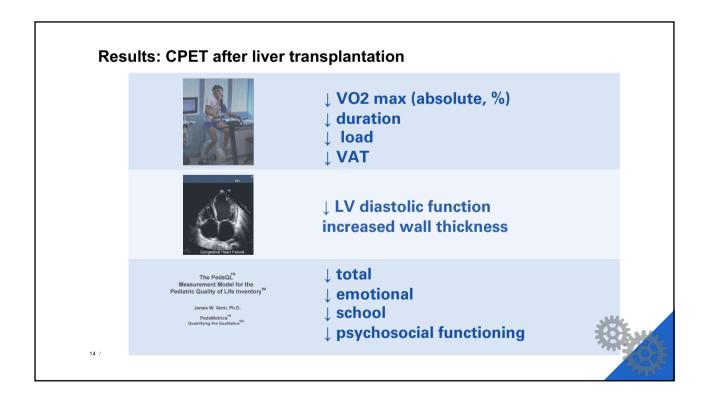
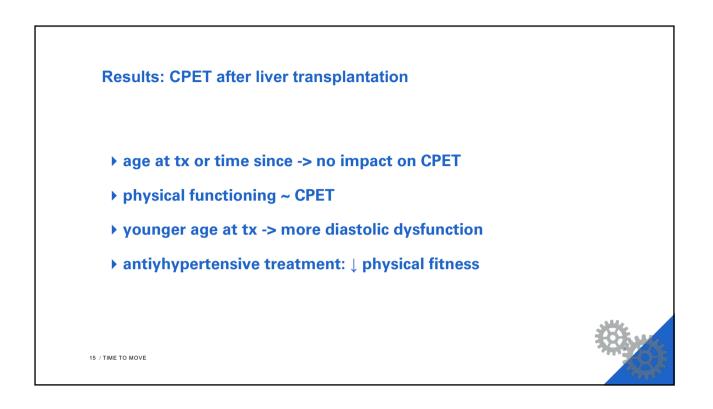


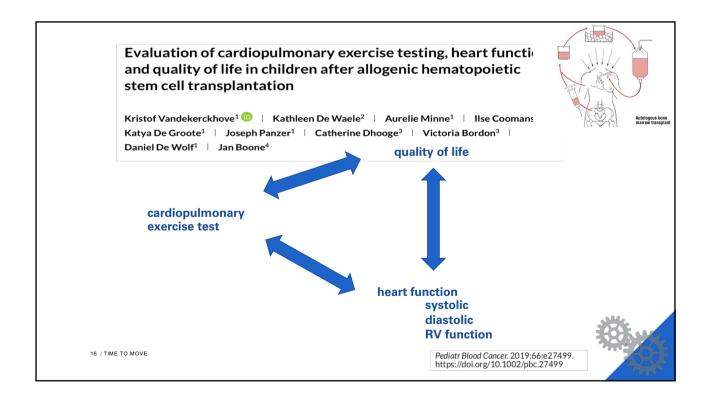
methods:		easure	The Pe ement I luality o	Nodel		
methous.	reusul		mes W. V PedsMet ifying the	rics	ve <sup>SM</sup>	
	In the past ONE month, how much of a problem h	as this l	been for	уои		JUSQL
"health related quality of life"	ABOUT MY HEALTH AND ACTIVITIES (problems with)	- Never	Almost	Some-	Often	Almo
nouter relation quality of the	1. It is hard for me to walk more than one block	0	Never -	times 2	3	Alwa
	2. It is hard for me to run	0	1	2	3	4
Questionnaire with different domains:	3. It is hard for me to do sports activity or exercise	0	1	2	3	4
Questionnaire with different domains:	4. It is hard for me to lift something heavy	0	1	2	3	4
school functioning	5. It is hard for me to take a bath or shower by myself	0	1	2	3	4
school functioning	6. It is hard for me to do chores around the house	0	1	2	3	4
emotional	7. I hurt or ache	0	1	2	3	4
omotional	8. I have low energy	0	1	2	3	4
social					-	
	ABOUT MY FEELINGS (problems with)	Never	Almost	Some-	Often	Alm
physical	1. I feel afraid or scared	0	1	2	3	<u>Alwa</u>
	2. I feel sad or blue	0	1	2	3	4
	3. I feel angry	0	1	2	3	4
2 extra domains	4. I have trouble sleeping	0	1	2	3	4
	5. I worry about what will happen to me	0	1	2	3	4
psychosocial	How I GET ALONG WITH OTHERS (problems with)	. Never.	Almost	.Some-	Often	Almo
total	1. I have trouble getting along with other kids	0	Never -	times 2	3	Alwa
	<ol> <li>I have trouble getting along with other kids</li> <li>Other kids do not want to be my friend</li> </ol>	0		2	3	4
	3. Other kids tease me	0		2	3	4
cooring: 0 4 coored on 100	<ol> <li>Other kids tease me</li> <li>I cannot do things that other kids my age can do</li> </ol>	0		2	3	4
scoring: 0 - 4, scored on 100	5. It is hard to keep up when I play with other kids	0	1	2	3	4
Mean on 100%	o. It is hard to keep up when I play with other kids	v	1	4	3	4
	ABOUT SCHOOL (problems with)	Never	Almost	Some-	Often	Alma
	1. It is hard to pay attention in class	0	1	2	3	4
	2. I forget things	0	1	2	3	4
	3. I have trouble keeping up with my schoolwork	0	1	2	3	4
11 / TIME TO MOVE	4. I miss school because of not feeling well	0	1	2	3	4
	<ol> <li>I miss school to go to the doctor or hospital</li> </ol>	0		2	2	4

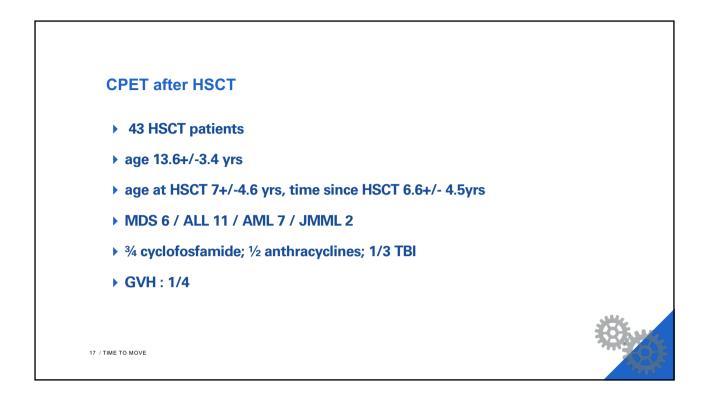




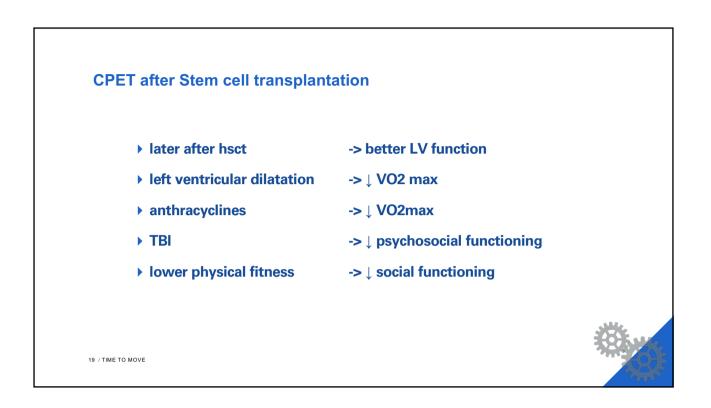


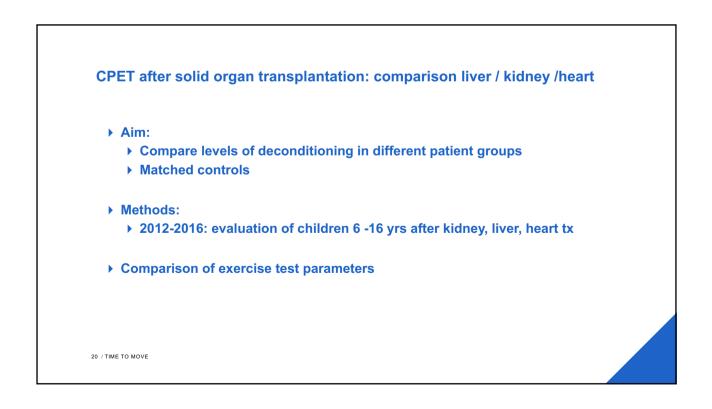






с	PET after Stem cell tra	nsplantation	
		↓ VO2 max (34.7 ml/kg vs. 46.3ml/kg) ↓ duration ↓ load ↓ VAT	
	Congestive Heart Fature	↓ systolic function (11%) ↓ RV systolic function (20%) ↓ LV diastolic function ↓ wall thickness Increased Iv diameter	
18 /	The PedsQL <sup>TM</sup> Measurement Model for the Pediatric Quality of Life Inventory <sup>TM</sup> James W. Varni, Ph.D. PediatMetrics <sup>TM</sup> Quantifying the Qualitative <sup>TM</sup>	↓ total ↓ emotional QOL	



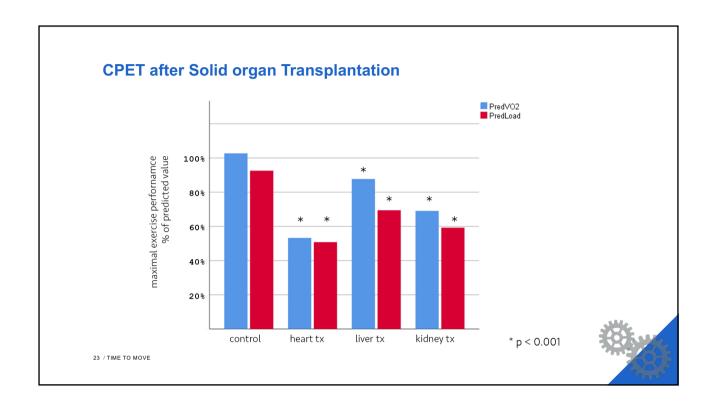


	transplant patients ( <i>n</i> =51)	controls ( <i>n</i> =51)	p-value
Age (yrs)	12.6±3.6	12.6±3.5	NS
Boys/girls	29/22	29/22	
Weight(kg)	44.3±16.1	43.7±14.9	NS
Length(cm)	150.3±18.4	152.8±17.9	NS
BSA BSA (m2)	1.35±0.34	1.35±0.31	NS
Transplant type (liver/kidney/heart)	31/13/6		
Time post transplant	6.7±4.3/6.9±4.1/1.8±3.3		
Age at transplant	4.5±4.8/8.4±4.3/12.7±2.8		
Heartrate rest (bpm)	95.5±13.4	94.5±12.4	NS
VO2rest(ml)	329.7±120.8	332.1±135.1	NS
VO2rest/kg (ml/kg)	7.7±3.2	7.8±2.4	NS

CPET after Solid organ	n Transplantation
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	Liver	Kidney	Heart	Control
VO2max/kg (ml/kg/min)	36.3±8.8***	30.5±6.4 ***	27.6±9.8 **	41.6±6.7
VO2max% (%)	87.7±15.1 ***	69.0±14.2 ***	61.8±24.0 **	99.4±15.1
Heartrate max (bpm)	173.3±18.7 **	175.8±14.9 *	143.7±15.2 ***	188.5±13.3
Duration (min)	8.6±2.7 ***	8.4±2.1 **	7.6±3.0 **	11.2±2.9
Load (%)	69.4±13.5 ***	59.2±16.2 ***	53.5±18.6 **	88.3±16.9
VAT (%)	53.6±10.8 **	49.8±9.4	58.3±19.6 **	47.4±8.9
HR at VAT	123.3±13.8	119.±23.7	109.3±13.3 **	124.2±12.6
RER	1.03±.04 **	1.16±0.07 *	1.1±0.2	1.09±0.08
VE (I/min)	49.7±24.3	64.9±22.2	47.7±26.0	59.5±24.0
VE/VCO2	30.6±5.0 ***	28.3±3.2	28.3±26.6	26.6±3.7
/ TIME TO MOVE			* p<0.05 ** P	2<0.01 ***p<0.001





Benefits of Early Mobilization Liver Transplantation*	After Pediatri	с	
Norihiko Tsuboi, MD <sup>1</sup> ; Miku Hiratsuka, RN <sup>1</sup> ; Setsushi l Satoshi Nakagawa, MD <sup>1</sup> ; Mureo Kasahara, MD, PhD <sup>2</sup> ; T			
Faster recovery			
better mobility			
Shorter LOS			
Outcome Measure	Pre-EM Period (n = 35)	Post-EM Period (n = 40)	p*
Length of PICU stay after surgery (d), median (IQR)	12 (6-31)	7 (6-11)	0.052
Length of hospital stay after surgery (d), median (IQR)	55 (37–99)	40 (31–54)	0.012

## What to do?

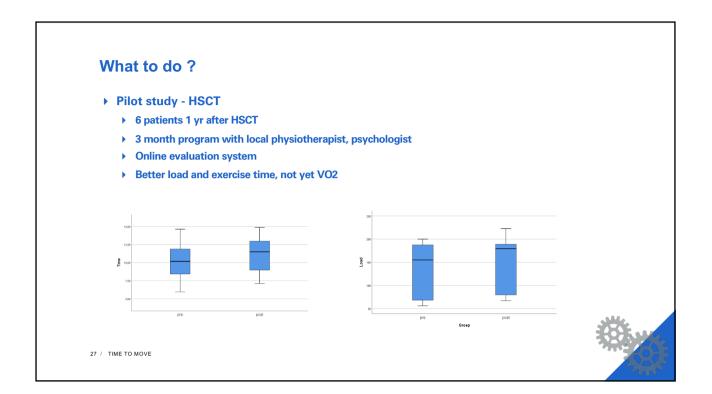
Influence of physical activity on cardiorespiratory fitness in children after renal transplantation

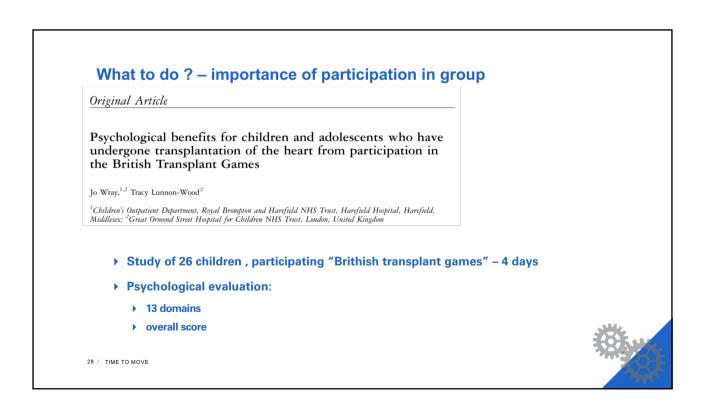
Riccardo Lubrano<sup>1</sup>, Giancarlo Tancredi<sup>2</sup>, Elena Bellelli<sup>1</sup>, Isotta Gentile<sup>1</sup>, Simona Scateni<sup>3</sup>, Raffaele Masciangelo<sup>4</sup>, Giovanna De Castro<sup>2</sup>, Paolo Versacci<sup>3</sup> and Marco Elli<sup>5</sup>

- > Study of 52 children , exercised vs non exercised, controls vs tx
- Transplanted exercised children
  - Ievel of sedentary controls
  - better than sedentary transplanted
- > Exercise diminishes LV hypertrophy in exercised transplanted chldren

	Controls inadequately active	Controls adequately active	children inadequately active	children adequately active	Kruskal–Wallis test, F	
RR max effort (acts per minute)	53.62 ± 7.2	$53.07 \pm 6.84$	$40.20 \pm 6.3$	$41.48 \pm 8.41$	0.0001	
HR max effort (beats per minute)	$192.68 \pm 9.63$	$197 \pm 6.83$	$160.66 \pm 23.78$	$170.30 \pm 17.35$	0.0001	Shire.
Exercise time (min)	$11.69 \pm 1.13$	$13.72 \pm 1.34$	$7.69 \pm 2.00$	$10.35 \pm 0.99$	0.0052	
VO <sub>2</sub> max/kg (mL/min/kg)	$32.62 \pm 2.53$	$41.90 \pm 5.66$	$24.79 \pm 1.99$	$29.59 \pm 4.28$	0.0001	27
25 / TIME TO MOVE						
			Nephrol Dial	Fransplant (2012	) 27: 1677–1681	2000







## What to do ? – importance of participation in group Table 1. Mean scores for each construct, and total score before and after the Games. Meeting similar people – "a true performance of participation in group Construct Pre-Games Post-Games Comments

Construct	Pre-Games	Post-Games	Comments
Mood state	4.00	4.23	
Confidence	3.58	3.81	
Able to participate in physical activities	3.56	3.88	
Anxiety	3.63	3.81	
Perceived activity levels	4.00	4.15	
Perceived physical health	4.26	4.35	
Self-esteem	4.41	4.35	
Popularity	3.78	3.77	
Physical ability	3.48	3.73	
Able to do things as well as others	3.70	3.85	
Self image	3.96	4.23	
Aggression	3.96	4.35	
Fatigue	3.59	3.46	
Total score	49.67*	52.15*	<sup>*</sup> p = .018

29 / TIME TO MOVE

Meeting similar people – "a true peer group" "Great to meet others who have been through the same stuff and understand what it is like – then you don't have to explain anything."

Increased self confidence "I feel much more confident and able to do things and I am not so worried about everything any more."

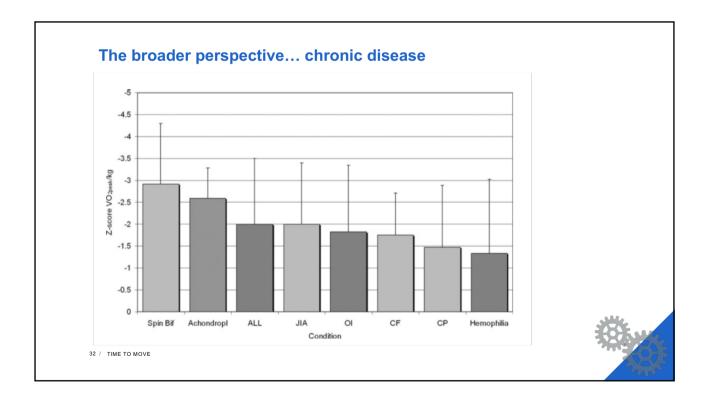
Hope for the future

"Although I only recently got my transplant I saw people running who had theirs more than 10 years ago! That was brilliant – realising that you can do all those things years later."

Dislike of competitive element "I didn't like the running and stuff but I enjoyed meeting other people like me".

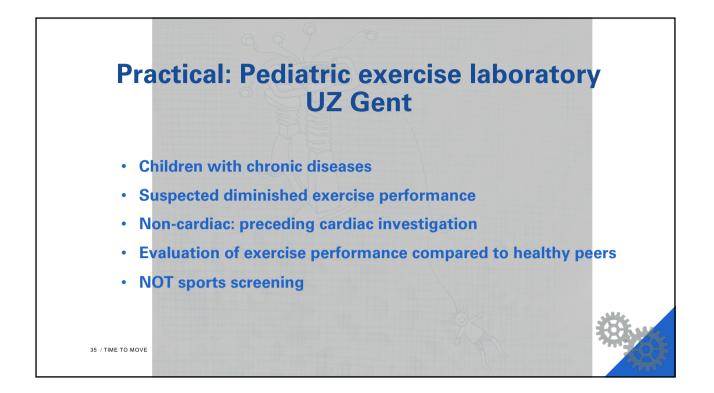


		monary Exercise Performance d in Congenital Diaphragmatic
Reduced Exercise Capacity in Children B	Born Very Preterm	Hernia Survivors
Aerobic Fitness in Children	exercise i anemia	limitation, exercise testing and recommendations in sickle cell Adults with
Primary Ciliary Dyskinesia	-	itness and Locomotor Skills in With Esophageal Atresia-A Case

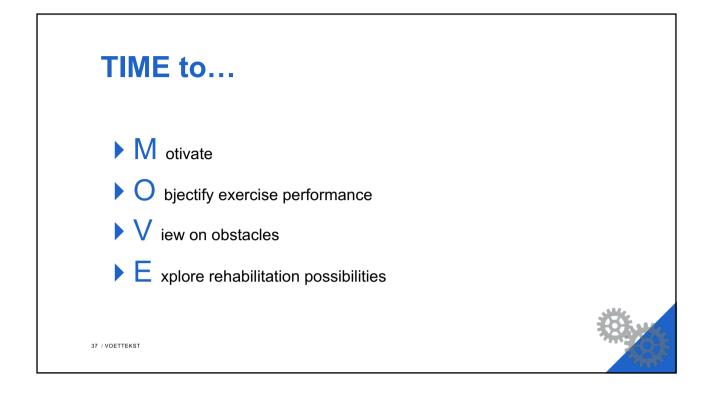


Proposed Core Set for Outcomes in Exercise Training/Activity Promotion Studies		
Fitness Component	Proposed Measure	
Health-related fitness <sup>a</sup>	Aerobic capacity (Vo <sub>2peak</sub> ), muscle strength	
Physical activity/inactivity	Directly measured (eg, pedometers, accelerometry, heart rate monitors, Global Positioning System monitors	
Health-related quality of life	e Questionnaire	
Fatigue	Questionnaire	
Performance-related fitness	<sup>o</sup> 6-Minute Walk Test, Shuttle-Sprint Test, Timed Up and Down Stairs, Timed Up and Go	













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