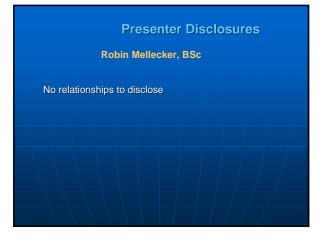
#### Exergaming, the newest intervention in a medical fitness facility

Ernie Medina, Jr., DrPH, CHFS Preventive Care Specialist, Beaver Medical Group Assistant Clinical Professor, Loma Linda Univ. School of Public Health Co-founder/CEO, MedPlay Technology, LLC Robin Mellecker, BSc Institute of Human Performance, Univ. of Hong Kong

#### Presenter Disclosures

#### Ernie Medina, Jr., DrPH, CHFS

- (1) The following personal financial relationships with commercial interests relevant to this presentation existed during the past 12 months:
- MedPlay Technologies CEO/Co-founder, shareholder
  Exerciame Fitness Advisory Board



#### What is "exergaming"





Video game with screen

Interactive digital game (no screen)

# Wii raised to mass awareness

Senior Citizens Going Nuts for Nintendo Wii BY EVAN SHANOON (HSS FEED) - AUG 20TH 2007 AT 0.31AM





#### Former Acting US Surgeon General Steven Galson, MD, MPH

"Reducing the prevalence of childhood overweight and obesity is among the foremost health challenges of our time."



APHA's 136th Annual Meeting, October, 2008, San Diego, CA



Aerobic - Kids 60 minutes daily





#### Robin Mellecker, BSc

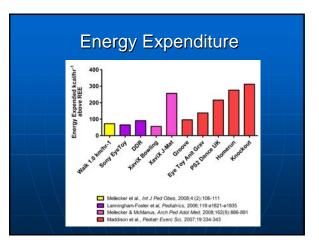
Institute of Human Performance University of Hong Kong

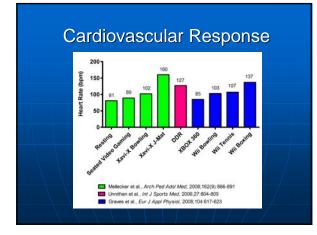
#### Active Gaming for Health

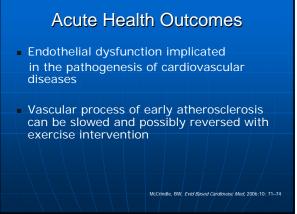
Can exergaming contribute to improving physical activity levels and health outcomes in children?

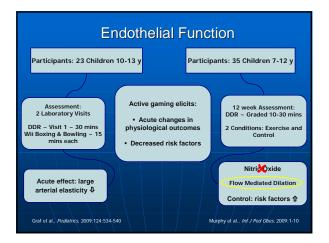
Daley, AJ Pediatrics 2009 124 763-771















### **Our Thoughts**

"The treadmill is FUN but totally unrelated to gaming and more ab



"I like being active but it is asier to concentrate when seated but when you are seated you are a couch moving is part of the game."



vas not



### **Moving Forward**

- Unrelated to conventional sport
- Movement incorporated into active game
- FUN, FUN ,FUN!

## Thank You

Dr. Alison McManus

APHA Conference Organizers

The University of Hong Kong Conference Grants Council





Loma Linda University Drayson Center XRtainment Zone



## Family Fit Zone

- 7-week program
  Referred by primary care/pediatrician
  Self-referred
- English & Spanish
- 90 mins
- Curriculum approved by CA Dept. of Health
- Covered benefit of Inland Empire Health Plan if at 85%-tile BMI-for-age or higher





#### Pre- & Post- assessments









## 45 mins of nutrition instruction:

Label reading Food Choices (Nutripoin NuVal, Pyramid) Physical activity Portions Eating out Modifying recipes



45-mins of exercise Exergaming Rx – circuit of games



Encourage the parents to exercise

with their kids!





"I don't like to exercise, but playing here I get a great workout and it doesn't feel like exercising!" Gunnar, age 12











#### Steep learning curve?

 Healthcare practitioners (40+), "video game immigrants", casual gamers





#### Parent's negative perceptions of "video games"

- Should be outdoors
- Too much screen time
- Violent games
- Not "real" exercise
- Any cognitive dangers?



# Overcoming healthcare's negative perception









SCHESORES (	ALLENGE		Reference Alliande Con
. THE OWILLINGE			
· EXHIBIT PROPERTY	My Favorites Wart to culturide your activity log just the way you like 37 The President's Challenge lets you highlight all your favorite activities, so you can find them right away when you log in.		
+ HY ACTIVITY LDD			
- 100LS TO HELP			
. THE PRESERVIT'S COUNCE.	Just select the activities you'd like to add to your favorites list, and click "Continue." You can also sign up for periodic apdates with more information about the activities you've		
· DREEK CENTER	chosen.	Construction and prove the	and a second second second
	Select Your Favorites:		
	Aerobica	Archery	C Badminton
	C Baseball	Baskethal	E Batan Twirting
	Ellicycling	Billarda	Dowing
	Boxing/Kickboxing	Calebonics	Carosing
	Cardio Machines	Cardio Tennia	Cheerlaading
	Children's Games	Circuit Training	E Orichet
	E Croquet	Cross Country Sking	Curling
	E Dancing	E Dente	EDiving
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	E Fishing	E Foot Bag	[] Football
	C Frisben	Gardening	E Cell
	Cymnastica .	Handball	E Hang Gliding
	Hking/Backpacking	Hockey	E Home Rapair
	Horseback Riding	Hurseshoe Pitching	Household Tasks
	E Hurting	Inline Skating	E lai Alai
	E Jugging	B* 200	In First 10 day
	E Lawn Bowling	<b>390+</b>	in first 10 day
	E Marching	Plantial Arts	Meter Creas
	Hountain Biking	E Mountai	Mintando Wi (Sports)
	Nordic Walking	Orienteering	Paddiebal
	E Pedometer	E Filatea	⊖ Pole
	E Recourtbell	E Rock Climbing	E Roler Skating









#### We need more evidence-based research!

### **Newest intervention for** increasing PA!



Exergaming: Where working out is all play!

## Thank you!

Ernie@MedPlayTech.com