



HONG KONG PHYSIOTHERAPY ASSOCIATION LIMITED

香港物理治療學會有限公司

中國香港特別行政區 九龍佐敦德興街12號興富中心9樓901室
Room 901, 9/F Rightful Centre, 12 Tak Hing Street, Jordan, Kowloon, HKSAR
www.hongkongpa.com.hk Tel: (852) 2336 0172 Fax: (852) 2338 0252

2017-18 Workshop by Sports Specialty Group

The New Statistical Tools for Sports & Medical Research

Conducting research and performing statistical analysis is one of the major tasks of physiotherapists as well as other medical professionals. Currently we rely on the calculation of the p value via significance testing to draw the conclusion. Nevertheless, a totally different and new statistical analysis was introduced over 10 years ago and now is getting popular and well recognized in many international journals in both sports science and sports medicine areas.

By applying this new method of statistical analysis, many potential problems of using traditional statistical analysis of significance testing can be overcome. No matter you are working in education, clinical or hospital setting, it is a great opportunity for you to learn from the world class statistician to improve both your research skills and statistical analysis this time. The speaker will highly emphasize on the practical training and sports related statistical analysis to give you more insights. This 2-day workshop plus 1-night lecture **MUST NOT TO BE MISSED**.

Date:	25 May 2018 (Friday) 26-27 May 2018 (Sat & Sun)
Time:	Day 1: 19:00-22:00 (3 hours) Day 2-3: 09:30- 17:00 (6 hours per day)
Speaker:	Prof. Will Hopkins, PhD
Venue:	To be confirmed
Capacity:	80
Language medium:	English
CPD:	Pending
Application deadline:	6 May 2018 (Sunday)
Course Fees:	HKD \$2300
Certificate:	Issued by HKPA SSG

New Statistical Tools for Exercise and Sport Research

A guided tour of the Sports science site

Professor Will Hopkins, Victoria University, Melbourne, Australia

Friday evening May 25

Resources at the Sports science site; p values vs magnitude-based inference; the American Statistical Association's policy statement on p values; spreadsheets for magnitude-based inference.

Saturday morning May 26

Research designs; spreadsheet for sample-size estimation

Saturday afternoon May 26

Linear models and effect magnitudes: basics; moderators; mediators; differences in means; correlations; uniformity and log transformation; mixed modeling; differences in proportions; ratios of proportions, hazards and odds

Sunday morning May 27

Spreadsheet for comparing means; spreadsheets for crossovers and controlled trials; validity and reliability statistics and spreadsheets.

Sunday afternoon May 27

Spreadsheet for monitoring individuals; meta-analysis; introduction to mixed modeling with SAS Studio

New Statistical Tools for Exercise and Sport Research[↕]

A guided tour of the [Sports science site](#) ↓

Professor Will Hopkins, Victoria University, Melbourne, Australia[↕]

↕

⊕

Friday evening May 25[↕]

Resources at the Sports science site; [↕]

p values vs magnitude-based inference; ↓
the American Statistical Association's policy ↓
statement on p values; [↕]

spreadsheets for magnitude-based inference. ↓

↕

↕

Saturday morning May 26[↕]

Research designs; [↕]

spreadsheet for sample-size estimation[↕]

↕

↕

Saturday afternoon May 26[↕]

Linear models and effect magnitudes: basics;
moderators; mediators; differences in means;
correlations; uniformity and log transformation;
mixed modeling; differences in proportions; ↓
ratios of proportions, hazards and odds[↕]

↕

↕

Sunday morning May 27[↕]

Spreadsheet for comparing means; [↕]

spreadsheets for crossovers and controlled trials;
validity and reliability statistics and spreadsheets. ↓

↕

↕

Sunday afternoon May 27[↕]

Spreadsheet for monitoring individuals; [↕]

meta-analysis; [↕]

introduction to mixed modeling with SAS Studio[↕]

Popular Resources at This Site[↕] ↕ ↕

Spreadsheets · related article[↕] ↕

[Assessing an individual](#) · article ↓ ↕

[Combine/compare effects](#) · article ↓

[Compare two group means](#) · article ↓

[Convert p values to MBI](#) · article ↓

[Parallel groups trial](#) · article ↓

[Post-only crossover](#) · article ↓

[Pre-post crossover](#) · article ↓

[Reliability](#) · article ↓

[Sample-size estimation](#) · article ↓

[Validity](#) · article[↕]

Understanding Research & Design[↕] ↕

[Finding out what's known](#) ↓ ↕

[Dimensions of research](#) ↓

[Research designs](#) ↓

[Sample-size estimation](#) ↓

[Assign subjects in controlled trials](#)[↕]

Understanding Data Analysis[↕] ↕

[Analysis: introduction](#) ↓ * ↕ ↕

[Assessing athletes](#) ↓

[Bootstrapping](#) ↓

[Controlled trials](#) ↓

[Inference: MBI, p values and more](#) ↓

[Linear models & effect magnitudes](#) ↓

[Meta-analysis](#) ↓

[Mixed models in SAS, R & SPSS](#) ↓

[Progressive statistics](#) ↓ * ↕

[Understand stats via simulations](#) ↓

[Validity and Reliability](#) ↓

[Which stats package?](#)[↕]

Presentation[↕] ↕

[Preparing graphics for publication](#) ↓ ↕

[Writing](#)[↕]

*Overviews of most topics

Speaker biography:



Professor Will Hopkins, PhD

Professor Will Hopkins is one of the best and most famous statisticians in sports science and sports medicine areas. Professor Hopkins entered the discipline of sports science through his mathematics and physics (BSc) in 1969, Russian (BA) in 1971, cell biology (MSc) in 1973, and neurophysiology (PhD) in 1977. He has held appointments in many universities and institutes such as Victoria University in Melbourne, Defence Institute in Oslo and Auckland University of Technology in New Zealand. Currently he is holding the adjunct professor for Shandong Sport University in Jinan of China.

Professor Hopkins has made his first publication since 1987 and after that, he has already published more than 500 papers in well recognized international journals. According to the Google Scholar, he has obtained total 25,366 citations with H-index 75. One of his very early publications “Measures of reliability in sports medicine and science” in 2000 has obtained 2934 citations. He has also devoted his career to sharing research and conference reports on his own website (sportsci.org) and is also well known in rejecting the traditional statistical method of null hypothesis and statistical significance in favour of a more clinically relevant method of inference.

Remarks:

- Priority will be given to SSG members.
- Successful applicants will be notified by email. After confirmation of successful application, course fees are **NOT** refundable. List of successful applicants will be posted in HKPA web two days before the event.
- Please prepare a **crossed cheque** payable to ‘**Hong Kong Physiotherapy Association Limited**’, with your 1) name, 2) HKPA membership number, 3) course name & 4) mobile number written at the back of the cheque.
- Status of membership is based on the updated list from the HKPA and is counted up to the date of deadline of application. Lots will be drawn if number of applicants exceeds the capacity.
- Date of application refers to the date stamped on the application letter.
- Preparing your **OWN** laptop for the two-day workshops is highly recommended for practical computer works.
- For application issues, please contact Mr. Indy HO at +852 98218161 or email to hkpassg@gmail.com .

APPLICATION FORM

HONG KONG PHYSIOTHERAPY ASSOCIATION – SPORTS SPECIALTY GROUP

Course Name	The New Statistical Tools for Sports & Medical Research		
Name	(English)	(Chinese)	
Membership	Professional status: _____	HKPA member <input type="checkbox"/> Yes (Membership no. _____) <input type="checkbox"/> No	SSG member : <input type="checkbox"/> Yes <input type="checkbox"/> No
Year of Graduation			
Workplace/ Setting			
Contact number	(office)	(Mobile)	
Mailing Address	(Mandatory)		
E-mail address	(Mandatory)		
Cheque no.		Issuing Bank:	
Registration	<p>Please send this form with a crossed cheque payable to “Hong Kong Physiotherapy Association Limited”, with your 1) <u>name</u>, 2) <u>HKPA membership number</u>, 3) <u>course name</u> & 4) <u>mobile number</u> written at the back of the cheque to the following address:</p> <p style="text-align: center;">To: Sports Specialty Group c/o: Mr. Indy HO, s1201, South Block, THEi, 133 Shing Tai Road, Chai Wan, Hong Kong</p>		
<p><u>Legal Claim Waiver Consent</u></p> <p>In consideration of HKPA Ltd. accepting my application to</p> <p>I hereby agree to waive all my claims (howsoever accrued) against HKPA Ltd.</p> <p>Signature : _____ Name of Applicant : _____</p> <p>Date : _____</p> <p style="text-align: right;"><i>*Please sign the above consent before submitting your application</i></p>			
<p><u>Special Weather Arrangement:</u></p> <p>When Tropical Cyclone Warning Signal No. 8 (or a higher number) and/or Black Rainstorm Signal is hoisted, the following arrangements will apply:</p> <p>For classes & examinations have <u>NOT YET STARTED</u></p> <p>– If Typhoon Signal No.8 and/or Black Rainstorm Signal is in force 2 hours before the course, the course will be cancelled.</p> <p>For classes & examinations that have already <u>started</u></p> <p>– When Typhoon Signal No.8 or above is hoisted - Classes immediately suspend.</p> <p>After confirmation of successful application, course fee paid are <u>NOT</u> refundable regardless of whether applicants have attended classes or not, unless the enrolled course is full or in exceptional circumstance deemed acceptable by HKPA.</p>			