

# NEWSLETTER

WEDNESDAY 08 JUNE 2022  
ISSUE 02

WWW.CARDIO-ALEX.COM

## EXECUTIVE COMMITTEE

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Ahmed Yehia Khalil  
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El Sayed Farag  
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Kawkab Khedr  
Maha Saeid  
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Mohamed El Fiky  
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Rasha Abayazeed  
Sahar Azab  
Salah El Tahan  
Sameh Arab  
Sherif El Beltagui  
Sherif Wagdy Ayad  
Tarek El Badawy  
Yehia Rashad

## ORGANIZING COMMITTEE

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Ahmed Elshannat  
Ahmed Essam Mahmoud  
Ahmed Hossam El deen Fathy  
Ahmed Khaled  
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Wessal Azmy  
Yassmine Ismail



# AT A GLANCE

WEDNESDAY, 08 JUN 2022

	08:30	09:00	09:30	10:00	10:30	11:00	11:30	12:00	12:30	13:00	13:30	14:00	14:30	15:00	15:30	16:00	16:30	17:00	17:30	18:00	
Great Hall	Live Transmission EPS (SNCM)				Live Transmission Euro Evolving Heart and Research Centre				Live Transmission Stroke			Live Transmission Humana Research Hospital					Live Transmission Stroke		Joint Session TCE		
Great Theater	Intervention - Best Case Approach Egyptian Way - Left Main			Euro Echo in Clinical Daily Practice (I)			Industrial Spot Imaging		Intervention - Best Case Approach II		Industrial Spot Research II		Integrated Imaging Joint session - ADPC		Industrial Spot Smart		Euro Echo in Clinical Daily Practice (II)		Intervention State of the art V General Cardiology		
Lecture	Joint Session ACC Chapter Update and Cardiology			Hybridization Special occasion			Industrial Spot Refactor		Artificial Intelligence				Joint Session SCAI		Industrial Spot RVD				Intervention State of the art Lecture IV (Ischemic Heart Disease I)		Euro AD Echo in Clinical Intervention
Outpatient	Cardiac Surgery			Industrial Spot Meryut - Public Security Office			Heart Failure Pathology - Karyakouss		Hybridization Joint session in Intervention				Oral Symposium Session by SEP/ACC		Industrial Spot Smart				Industrial Spot Research II		Heart Failure Structural Phenomena II
Simulation Booth	Intervention - Best Case Approach Egyptian Way - Left Main			CardiMax Live in a Box			Intervention - Best Case Approach Interventional Method - CTO Euro (CTO Club & Memorial Hospital)		Integrated Imaging Case 2D Nuclear cardiography Intervening cases session				Intervention - Best Case Approach Egyptian Way CTO		Transcatheter Mitral Valve-in-Valve CAME				Intervention - Best Case Approach Interventional Method - Structural American University of Beirut & SOLACI		Intervention - Best Case Approach Interventional Method - Left Main & Bifurcations - RAJACC & SACIS
Classical Booth	Euro Echo in Clinical Daily Practice (I)						Intervention State of the art Lecture II						Learn & Lunch III RVD					Learn & Lunch IV Pfizer		Integrated Imaging Imaging of Atherosclerosis	
Hall E	Statistics						Hybridization Case Presentation I						Special Topics IV						Advanced and Biology I		Oral
Hall D	Prof. Magdy Redwan Prime Echocardiography & Imaging						Basic Science I (Female) Her Topic				Joint Session Cardiology								Special Topics II		General Cardiology
Hall A	Pericardial Diseases Prof. Mohamed Mostafa Mohamed Lashin						OPH Workshop				Joint Session Cardiology										Challenging Cases
Training Village											Pericardial Diseases Prof. Mohamed Mostafa Mohamed Lashin										Pericardial Diseases (Learning your with assist in virtual heart disease)
Hall O																					Workshop CMA-How to support IFA implementation (Sponsored By Medtronic)

## REGISTRATION & OPENING HOURS

- SCIENTIFIC OPENING HOURS  
**09:00 – 19:30**
- REGISTRATION AREA FOR SPEAKERS & CHAIRPERSONS  
**11:00 – 19:30**



## WORKSHOPS

**EGYPTIAN RESUSCITATION COUNCIL IN COLLABORATION WITH EUROPEAN RESUSCITATION COUNCIL**

10:00 - 11:30 Hall A

**TARGETED ECHOCARDIOGRAPHY IN PICU WORKSHOP**

12:15 - 13:15 Training Village

## INTERNATIONAL JOINT SESSION

**BEST CASE APPROACH INTERNATIONAL METHOD - CTO EURO CTO CLUB & MEMORIAL HOSPITAL**

10:30 - 11:30 Show Cases Room

**BEST CASE APPROACH INTERNATIONAL METHOD - STRUCTURAL AMERICAN UNIVERSITY OF BEIRUT & SOLACI**

16:15 - 17:15 Show Cases Room

**BEST CASE APPROACH INTERNATIONAL METHOD - LEFT MAIN & BIFURCATIONS PAN AFRICAN COURSE ON INTERVENTIONAL CARDIOLOGY (PAFCIC) & THE SAUDI ARABIA CARDIAC INTERVENTIONAL SOCIETY (SACIS)**

17:15 - 18:15 Show Cases Room

# CARDIOALEX.22 SYMPOSIA

WED, 08 JUN 2022

**Marcyrl - Habib Scientific**

**Office Industrial Spot**

10:00 - 10:30 Delegate

**Biofactor Industrial Spot**

11:00 - 11:30 Lecture

**Boehringer Industrial Spot**

11:30 - 12:15 Small Theater

**Novartis Industrial Spot**

13:15 - 14:00 Small Theater

**CME Sponsored Session**

**by SERVIER**

14:00 - 14:30 Delegate

**Servier Industrial Spot**

14:30 - 14:45 Delegate

**INAD Industrial Spot**

15:00 - 15:30 Lecture

**Sanofi Industrial Spot**

15:30 - 16:15 Small Theater

**Novartis Industrial Spot**

16:15 - 16:45 Delegate

**Menarini Industrial Spot**

16:45 - 17:15 Delegate

THU, 09 JUN 2022

**Servier Industrial Spot**

11:00 - 11:30 Small Theater

**Sanofi Industrial Spot**

12:30 - 13:00 Delegate

**Abbot Vascular Industrial Spot**

13:00 - 13:45 Small Theater

**Boehringer Industrial Spot**

13:45 - 14:15 Lecture

**Biofactor Industrial Spot**

14:15 - 14:45 Lecture

**Novartis Industrial Spot**

14:45 - 15:30 Small Theater

**Pfizer Industrial Spot**

16:30 - 17:15 Small Theater

## TECH-NURSE

**Medtronic Industrial Spot**

10:30 - 11:30 Auditorium

**Medtronic Industrial Spot**

13:45 - 14:15 Auditorium



Engineering the extraordinary



**MOBILE  
APPLICATION**

# I DON'T MISS

## ● NATIONAL LIVE TRANSMISSION

WED, 08 JUN 2022

09:00 - 10:00 Great Hall  
A case of cryoballoon- guided PVI  
Supported by: **Medtronic**

12:15 - 13:15 Great Hall  
**Smouha University Hospital**  
TAVI case  
Supported by: **Medtronic**

16:15 - 17:15 Great Hall  
**Smouha University Hospital**  
CTO- Retrograde case  
Supported by: **Abbott Vascular**

THU, 09 JUN 2022

10:00 - 11:00 Great Hall  
**International Cardiac Center**  
DynamX Bioadaptor - The Next  
Advancement in Coronary Intervention  
Supported by: **Elixir Médical Corporation**  
**Elbahey Trading**

## ● INTERNATIONAL LIVE TRANSMISSION

WED, 08 JUN 2022

10:30 - 11:00 Great Hall  
**Fortis Escorts Heart and Research Center**  
**India**  
Onyx Case  
Supported by: **Medtronic**

14:00 - 15:00 Great Hall  
**Humanitas Research Hospital**  
**Italy**  
(DES+DCB) treatment of diffuse disease

THU, 09 JUN 2022

13:45 - 14:45 Great Hall  
**Leipzig Heart Institute**  
**Germany**  
Transfemoral TAVI with commissural  
alignment

#CardioAlex

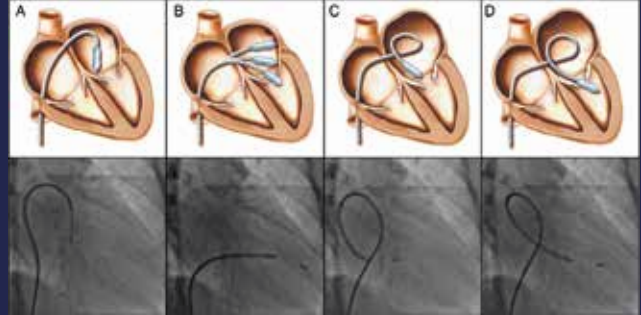




## MEET OUR INTERNATIONAL SPEAKERS

ANTONIS PANTAZIS	UK
HOSSAM EL GENDI	UK
JULIA GRAPSA	UK
OMER GOKTEKIN	TURKEY
KHALID TAMMAM	KSA
CHRISTIAN SCHLENSAK	GERMANY
OMAR GALA	KSA
GIUSEPPE MANCIA	ITALY
WAEEL ABOSHOKKA	UAE
IMAD SHEIBAN	ITALY
THOMAS LUSCHER	UK
ALDO PIETRO MAGGIONI	ITALY
EWA JANKOWSKA	POLAND
GIUSEPPE ROSANO	UK
CHRISTOPH NABER	GERMANY
ANTOINETTE NEYLON	FRANCE
SAMIH LAWAND	KSA
DENNIS CALNON	USA
RANDALL THOMPSON	USA
RAMESH DAGGUBATI	USA
ALEXANDRA LANSKY	USA
EMAD AZI	USA
MICHEAL HEINEINZ	USA
SHIBU MATHEW	GERMANY
PETER AZIZ	USA
FRANK ING	USA
MATTEO CAMELI	ITALY
WILLIAM ZOGB	USA
SHERIF NAGUEH	USA
GREGG STONE	USA
MOHAMED JEILAN	KENYA
AHMED HASSANEIN	USA
GEORGE VETROVEC	USA
THOMAS HOVASSE	FRANCE
LUCY SAFI	USA
GIANLUIGI SAVARESE	SWEDEN
GREGORY THOMAS	USA
STEPHAN ACHENBACH	GERMANY

## LATEST ADVANCES IN PERCUTANEOUS BALLOON MITRAL VALVULOPLASTY (PBMV)



RHEUMATIC HEART DISEASE IS A CHRONIC MANIFESTATION OF RHEUMATIC CARDITIS, WHICH OCCURS IN 60% TO 90% OF CASES OF RHEUMATIC FEVER. ALTHOUGH ALL OF THE CARDIAC VALVES MAY BE INVOLVED BY THIS RHEUMATIC PROCESS, THE MITRAL VALVE IS INVOLVED MOST PROMINENTLY. THE ENDOCARDIAL LESION MOST OFTEN LEAVES PERMANENT SEQUELA RESULTING IN VALVULAR REGURGITATION, STENOSIS, OR BOTH. STENOSIS OF THIS VALVE OCCURS FROM LEAFLET THICKENING, COMMISSURAL FUSION, AND CHORDAL SHORTENING/FUSION.

BEFORE THE ADVENT OF PBMV, MOST PATIENTS WITH SYMPTOMATIC MS WERE TREATED WITH SURGICAL MITRAL COMMISSUROTOMY. IN COMPARISON TO SURGICAL MITRAL COMMISSUROTOMY, PBMV HAS SHOWN EQUAL OR BETTER SUCCESS RATES AND COMPARABLE RESTENOSIS RATES. RANDOMIZED TRIALS COMPARING PBMV TO CLOSED COMMISSUROTOMY HAVE SHOWN THAT PBMV IS SUPERIOR TO CLOSED COMMISSUROTOMY, PROVIDING A LARGER VALVE AREA AND BETTER LONG-TERM DURABILITY.

LOCK ET AL IN INDIA FIRST REPORTED THE USE OF A CYLINDRICAL BALLOON FOR MITRAL VALVULOPLASTY.

SUBSEQUENTLY, THE IDEA OF A DOUBLE-BALLOON TECHNIQUE WAS INTRODUCED FROM SAUDI ARABIA AS

A POTENTIAL ALTERNATIVE METHOD FOR BALLOON COMMISSUROTOMY. THE DOUBLE-BALLOON TECHNIQUE REQUIRES THAT 2 GUIDEWIRES BE POSITIONED IN THE LEFT VENTRICULAR APEX, THROUGH WHICH 2 FLOATING BALLOON CATHETERS ARE THEN ADVANCED ACROSS THE MITRAL VALVE ORIFICE. ALTHOUGH THE DOUBLE-BALLOON TECHNIQUE IS SURELY EFFECTIVE, IT IS MORE TECHNICALLY DEMANDING AND THUS OFTEN REQUIRES A LONGER PROCEDURE TIME, WHICH MAY LEAD TO INADVERTENT COMPLICATIONS. THE GUIDEWIRE POSITIONED IN THE LEFT VENTRICULAR APEX SOMETIMES INDUCES PERFORATION OF THE APEX, LEADING TO CARDIAC TAMPONADE. IN FACT, PBMV USING A SINGLE INOUE BALLOON YIELDS EQUIVALENT EFFICACY WHEN COMPARED WITH THE DOUBLE-BALLOON TECHNIQUE AND WITH LOWER PROCEDURAL RISKS. TODAY, THEREFORE, INOUE'S SINGLE-BALLOON TECHNIQUE HAS BECOME THE MOST POPULAR METHOD FOR PERFORMING PBMV IN MOST PARTS OF THE WORLD.

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SCIENTIFIC PROGRAM  
ACCREDITATION



"CardioAlex.22 - Program" is accredited by  
THE EUROPEAN BOARD FOR ACCREDITATION IN  
CARDIOLOGY (EBAC) For "20" Hours

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# TAVI, ALEXANDRIA UNIVERSITY EXPERIENCE

Degenerative aortic valve stenosis has an increasing prevalence nowadays due to the increased awareness, advancement in our imaging modalities and treatment strategies. It is the most common valvular lesion in Europe according to the latest surveys and clinical studies. It carries significant CV morbidity and mortality, especially in elderly patients with a high burden of CV risk factors and other comorbidities.

TAVI offers a safe and effective option nowadays in the elderly or high surgical risk populations with severe aortic stenosis with ongoing innovations in valve design, implantation techniques, vascular access closure options and imaging modalities, along with accumulating experience and clinical data. Hence, TAVI was approved as a class I recommendation in "low risk" patients

with some concerns about the long-term outcomes, which are currently being tackled in every aspect of the daily practice.

TAVI gained popularity in our practice in the Egyptian cardiac centers after the provision of the latest devices through the Egyptian United Pay Agency (U.P.A.) and the accumulation of experience in the leading centers in our country. Alexandria university has started its TAVI program for more than one year, completing a series of twenty successful cases under the supervision of certified proctors in the field of TAVI. Our program commenced with a series of lectures, workshops and hands-on training sessions before proceeding into operating our first case.

The establishment of a multi-disciplinary team was crucial before starting this elegant program, combining multiple subspecialties such as: cardiac structural interventionists, cardiac imagers, cardiac anesthesiologists, cardio-thoracic surgeons and vascular surgeons. This approach refines our practice, predicts complications and improves our outcome. Initiating a TAVI program mandates continuous data collection to establish a local registry enabling continuous clinical auditing and promoting research to improve our practice and outcomes. Finally, we hope to expand our program to offer a large number of indicated patients the latest evidence-based practice interventions to reduce the disease burden in our community

Cardio-oncology is neither the science nor the practice of treating heart tumors, rather an emerging multidisciplinary field that focuses on the

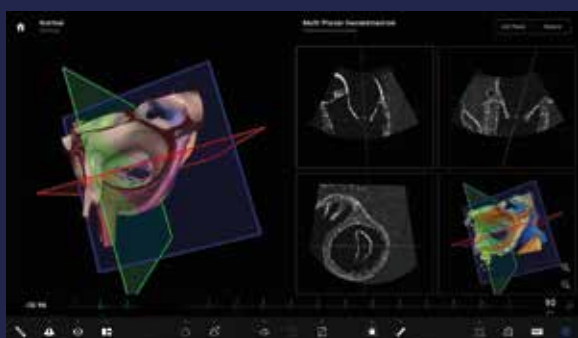


cardiovascular management (prevention, diagnosis and treatment) of patients with cancer. The core objective of the cardio-oncology discipline is to ensure that "the cancer patient of today does not become the heart patient of tomorrow."

This year, we are focusing on this emerging subspecialty with dedicated lectures & talks. Come join us and don't miss cardiooncology sessions to learn about Alexandria university experience with this field.

Transesophageal Echocardiography has long been a key imaging modality for the evaluation of cardiac structures. The identification of detailed anatomical characteristics of the cardiac structures is essential to understand the mechanisms of the diseases and to select an optimal timing and guide intervention, however, conventional two-dimensional (2D) echocardiography has substantial limitations in assessing the complex anatomy of the complex cardiac anatomy. One of the main limitations is that 2D echocardiography can only show one acquisition plane which sometimes leads to misunderstanding of the disease. Recent developments allow the characterization of the complex anatomy of cardiac structures with great accuracy using three-dimensional (3D) echocardiographic images with great accuracy.

Don't miss the opportunity of learning from our experts in 2D & 3D TEE workshop in cardioalex 2022.



## DUAL ANTIPLATELET THERAPY AFTER PCI IN PATIENTS AT HIGH BLEEDING RISK (MASTER-DAPT TRIAL)

### Methods

One month after they had undergone implantation of a biodegradable-polymer sirolimus-eluting coronary stent, we randomly assigned patients at high bleeding risk to discontinue dual antiplatelet therapy immediately (abbreviated therapy) or to continue it for at least 2 additional months (standard therapy). The three ranked primary outcomes were net adverse clinical events (a composite of death from any cause, myocardial infarction, stroke, or major bleeding), major adverse cardiac or cerebral events (a composite of death from any cause, myocardial infarction, or stroke), and major or clinically relevant nonmajor bleeding; cumulative incidences were assessed at 335 days. The first two outcomes were assessed for noninferiority in the per-protocol population, and the third outcome for superiority in the intention-to-treat population.

### RESULTS

Among the 4434 patients in the per-protocol population, net adverse clinical events occurred in 165 patients (7.5%) in the abbreviated-therapy group and in 172 (7.7%) in the standard-therapy group (difference,  $-0.23$  percentage points; 95% confidence interval [CI],  $-1.80$  to  $1.33$ ;  $P < 0.001$  for noninferiority). A total of 133 patients (6.1%) in the abbreviated-therapy group and 132 patients (5.9%) in the standard-therapy group had a major adverse cardiac or cerebral event (difference,  $0.11$  percentage points; 95% CI,  $-1.29$  to  $1.51$ ;  $P = 0.001$  for noninferiority). Among the 4579 patients in the intention-to-treat population, major or clinically relevant nonmajor bleeding occurred in 148 patients (6.5%) in the abbreviated-therapy group and in 211 (9.4%) in the standard-therapy group (difference,  $-2.82$  percentage points; 95% CI,  $-4.40$  to  $-1.24$ ;  $P < 0.001$  for superiority).

### CONCLUSIONS

One month of dual antiplatelet therapy was noninferior to the continuation of therapy for at least 2 additional months with regard to the occurrence of net adverse clinical events and major adverse cardiac or cerebral events; abbreviated therapy also resulted in a lower incidence of major or clinically relevant nonmajor bleeding.

## EMPAGLIFLOZIN IN HEART FAILURE WITH A PRESERVED EJECTION FRACTION (EMPEROR-PRESERVED TRIAL)

### Methods

In this double-blind trial, we randomly assigned 5988 patients with class II–IV heart failure and an ejection fraction of more than 40% to receive empagliflozin (10 mg once daily) or placebo, in addition to usual therapy. The primary outcome was a composite of cardiovascular death or hospitalization for heart failure.

### RESULTS

Over a median of 26.2 months, a primary outcome event occurred in 415 of 2997 patients (13.8%) in the empagliflozin group and in 511 of 2991 patients (17.1%) in the placebo group (hazard ratio,  $0.79$ ; 95% confidence interval [CI],  $0.69$  to  $0.90$ ;  $P < 0.001$ ). This effect was mainly related to a lower risk of hospitalization for heart failure in the empagliflozin group. The effects of empagliflozin appeared consistent in patients with or without diabetes. The total number of hospitalizations for heart failure was lower in the empagliflozin group than in the placebo group (407 with empagliflozin and 541 with placebo; hazard ratio,  $0.73$ ; 95% CI,  $0.61$  to  $0.88$ ;  $P < 0.001$ ). Uncomplicated genital and urinary tract infections and hypotension were reported more frequently with empagliflozin.

### CONCLUSIONS

Empagliflozin reduced the combined risk of cardiovascular death or hospitalization for heart failure in patients with heart failure and a preserved ejection fraction, regardless of the presence or absence of diabetes.



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## PREVENTION OF CARDIAC DYSFUNCTION DURING ADJUVANT BREAST CANCER THERAPY (PRADA TRIAL):

Extended Follow-Up of a 2×2 Factorial, Randomized, Placebo-Controlled, Double-Blind Clinical Trial of Candesartan and Metoprolol

### Methods

In this 2×2 factorial, randomized, placebo-controlled, double-blind, single-center trial, patients with early breast cancer were assigned to concomitant treatment with candesartan cilexetil, metoprolol succinate, or matching placebos. Target doses were 32 and 100 mg, respectively. Study drugs were discontinued after adjuvant therapy. All 120 validly randomized patients were included in the intention-to-treat analysis. The primary outcome measure was change in LVEF assessed by cardiovascular magnetic resonance imaging from baseline to extended follow-up. Secondary outcome measures included changes in left ventricular volumes, echocardiographic peak global longitudinal strain, and circulating cardiac troponin concentrations.

### RESULTS

A small decline in LVEF but no significant between-group differences were observed from baseline to extended follow-up, at a median of 23 months (interquartile range, 21 to 28 months) after randomization (candesartan, 1.7% [95% CI, 0.5 to 2.8]; no candesartan, 1.8% [95% CI, 0.6 to 3.0]; metoprolol, 1.6% [95% CI, 0.4 to 2.7]; no metoprolol, 1.9% [95% CI, 0.7 to 3.0]). Candesartan treatment during adjuvant therapy was associated with a significant reduction in left ventricular end-diastolic volume compared with the noncandesartan group (P=0.021) and attenuated decline in global longitudinal strain (P=0.046) at 2 years. No between-group differences in change in cardiac troponin I and T concentrations were observed.

### CONCLUSIONS

Anthracycline-containing adjuvant therapy for early breast cancer was associated with a decline in LVEF during extended follow-up. Candesartan during adjuvant therapy did not prevent reduction in LVEF at 2 years, but was associated with modest reduction in left ventricular end-diastolic volume and preserved global longitudinal strain. These results suggest that a broadly administered cardioprotective approach may not be required in most patients with early breast cancer without preexisting cardiovascular disease.

## SHUTTLE BUS SCHEDULE

WEDNESDAY - 8 <sup>TH</sup> JUNE 2022	From Hotels		Hotels	Return Lines	Return lines Please check your hotel line number
	Round 1	Round 2			
	08:30 am	10:00 am	Windsor	1	10 minutes after last session
08:40 am	10:10 am	Metropole Cecil			
08:00 am	10:00 am	Sheraton Helnan Palestine Helnan Palace	2		
08:15 am	10:15 am	Hilton corniche Four seasons Romance Tolip Jewel Grand plaza Hilton green plaza	3		
			4		
			5		
07:30 am	10:00 am	Radisson Blu	6		
08:30 am	10:00 am	Grand Royal (Cherry Marisky)	7		

THURSDAY - 9 <sup>TH</sup> JUNE 2022	From Hotels		Hotels	Return Lines	Return lines Please check your hotel line number
	Round 1	Round 2			
	08:30 am	10:00 am	Windsor	1	10 minutes after last session
08:40 am	10:10 am	Metropole Cecil			
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			4		
			5		
07:30 am	10:00 am	Radisson Blu	6		
08:30 am	10:00 am	Grand Royal (Cherry Marisky)	7		

## FOOD & BEVERAGE

WEDNESDAY 8 <sup>TH</sup> of JUNE	
10:00 <b>Coffee Break 1</b>	14:15 <b>Coffee Break 2</b>
14:00 <b>Learn &amp; Lunch 1</b> - by invitation	16:15 <b>Learn &amp; Lunch 2</b> - by invitation
17:15 <b>Lunch</b>	
THURSDAY 8 <sup>TH</sup> of JUNE	
10:00 <b>Coffee Break 1</b>	14:00 <b>Coffee Break 2</b>
13:45 <b>Learn &amp; Lunch 1</b> - by invitation	15:30 <b>Learn &amp; Lunch 2</b> - by invitation
17:15 <b>Lunch</b>	

**ANSWER THE QUIZ & WIN GRAND PRIZES SCAN TO ANSWER**

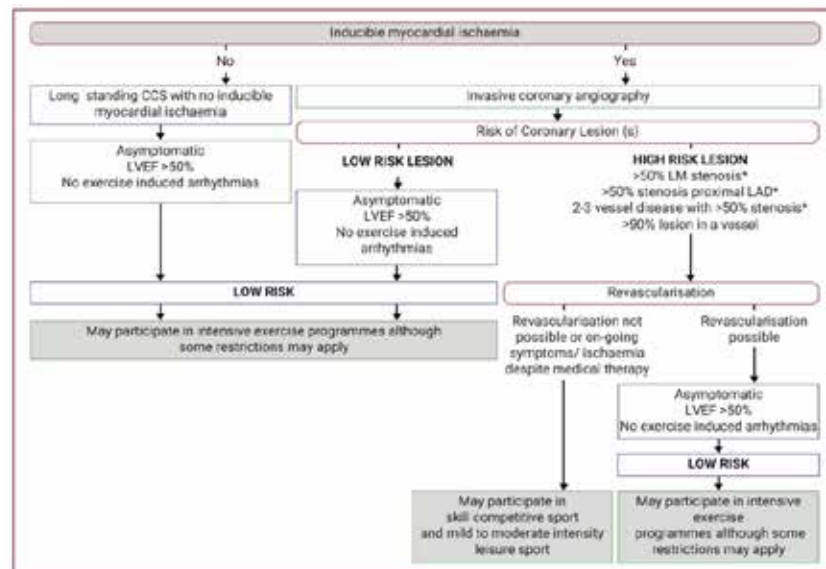
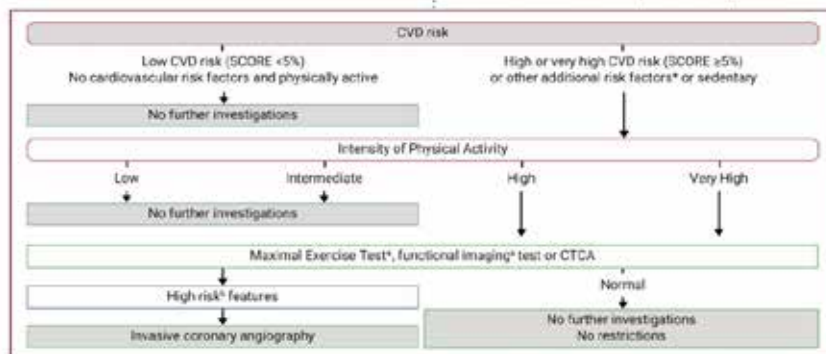




## General recommendations for exercise and sports in healthy individuals

Recommendations	Class <sup>a</sup>	Level <sup>b</sup>
At least 150 min/week of moderate-intensity, or 75 min/week of vigorous-intensity aerobic exercise, or an equivalent combination thereof is recommended in all healthy adults. <sup>113–118</sup>	I	A
A gradual increase in aerobic exercise to 300 min/week of moderate-intensity, or 150 min/week of vigorous-intensity aerobic exercise, or an equivalent combination is recommended for additional benefits in healthy adults. <sup>114,116</sup>	I	A
Regular assessment and counselling to promote adherence and, if necessary, to support an increase in exercise volume over time are recommended. <sup>119</sup>	I	B
Multiple sessions of exercise spread throughout the week, i.e. on 4–5 days a week and preferably every day of the week, are recommended. <sup>113,114</sup>	I	B

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### Recommendations for exercise in individuals with long-standing chronic coronary syndrome

Recommendations	Class <sup>a</sup>	Level <sup>b</sup>
Risk stratification for exercise-induced adverse events is recommended in individuals with established (long-standing) chronic coronary syndrome (CCS) prior to engaging in exercise. <sup>223</sup>	I	C
Regular follow-up and risk stratification of patients with CCS is recommended. <sup>223</sup>	I	B
It is recommended that individuals at high risk of an adverse event from CAD are managed according to the current Guidelines on CCS. <sup>223</sup>	I	C
Competitive or leisure sports activities (with some exceptions such as older athletes and sports with extreme CV demands) should be considered in individuals at low risk of exercise-induced adverse events (Table 1). <sup>223</sup>	IIa	C
Leisure-time exercise, below the angina and ischaemic thresholds, may be considered in individuals at high risk of exercise-induced adverse events (Table 1), including those with persisting ischaemia. <sup>111</sup>	IIIb	C
Competitive sports are not recommended in individuals at high risk of exercise-induced adverse events or those with residual ischaemia, with the exception of individually recommended skill sports. <sup>223</sup>	III	C

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# GUIDE LINES

## Recommendations for exercise in ageing individuals

Recommendations	Class <sup>a</sup>	Level <sup>b</sup>
Among adults aged 65 years or older who are fit and have no health conditions that limit their mobility, moderate-intensity aerobic exercise for at least 150 min/week is recommended. <sup>212,214,215</sup>	I	A
In older adults at risk of falls, strength training exercises to improve balance and coordination on at least 2 days a week are recommended. <sup>201,212,214,215</sup>	I	B
A full clinical assessment including a maximal exercise test should be considered in sedentary adults aged 65 years or older who wish to participate in high-intensity activity.	IIa	C
Continuation of high- and very high-intensity activity, including competitive sports, may be considered in asymptomatic elderly athletes (master athletes) at low or moderate CV risk.	IIb	C

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## Recommendations for exercise prescription in heart failure with reduced or mid-range ejection fraction

Recommendations	Class <sup>a</sup>	Level <sup>b</sup>
Regular discussion about exercise participation and provision of an individualized exercise prescription is recommended in all individuals with heart failure. <sup>290,261,283</sup>	I	A
Exercise-based cardiac rehabilitation is recommended in all stable individuals to improve exercise capacity, quality of life, and to reduce the frequency of hospital readmission. <sup>260,261,265</sup>	I	A
Beyond annual cardiac assessment, clinical reassessment should be considered when the intensity of exercise is increased.	IIa	C
Motivational and psychological support and individualized recommendations on how to progress the amount and intensity of sports activities should be considered.	IIa	C
Low- to moderate-intensity recreational sporting activities and participation in structured exercise programmes may be considered in stable individuals.	IIb	C
High-intensity interval training programmes may be considered in low-risk patients who want to return to high-intensity aerobic and mixed endurance sports.	IIb	C

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