Train the Trainers Workshop part of the Be Guidelines Smart Toolkit

EORP Registries and their link with ESC Guidelines

Bernard Iung, Paris, France

7-8 December 2017. The European Heart House
‘Impactful Education’ is a process

1. Needs Assessment
2. Learning Objectives
3. Instructional Design + Deployment
4. Evaluation

Education as a process
Professor Maarten Simoons, ESC President 2000-2002, created the ESC Scientific Affairs.

His vision is depicted as follows by the M. Simoons ‘wheel of wisdom’

Registries \rightarrow Guidelines

ESC can make it!

Guidelines \rightarrow Textbooks & Publications

Educational activities
The Virtuous Circle

Knowledge

Research

Guidelines
ESC Cardiomed

EORP Registries

Education
The New Guidelines

• Include:
  o Gaps in evidence
  o Key points which will be the basis:
    • 1) for building the learning objectives of education products
    • 2) for the elaboration of the registries

• Shorter text

• Focus on recommendations for clinical practice

• Background and rationale are developed in the corresponding chapter of the ESC Textbook (Cardiomed)
ESC Cardiomed

• New edition:
  o Available online for selected chapters
  o Print version by ESC Congress 2018

• Consistent with the Guidelines: written by the same group of experts:
  *Alignment of authors done for most chapters related to the Guidelines*

• New Guidelines readers will have free access to the relevant chapter:
  *Done for the VHD pilot*

• New process explained before the beginning of the Guidelines TF work:
  o 2018 Syncope; Pregnancy
  o 2019 Pulmonary Embolism; Stable Coronary Artery Disease; Diabetes
High visibility direct link: GLs to Textbook chapter

2017 ESC/EACTS Guidelines for the management of valvular heart disease

The Task Force for the Management of Valvular Heart Disease of the European Society of Cardiology (ESC) and the European Association for Cardio-Thoracic Surgery (EACTS)

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Keywords: Guidelines, Valve disease, Valve surgery, Percutaneous valve intervention, Aortic regurgitation, Aortic stenosis, Mitral regurgitation, Mitral stenosis, Tricuspid regurgitation, Tricuspid stenosis, Prosthetic heart valves

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References

For the Web Addenda which include background information and detailed discussion of the data that provided the basis for the recommendations see: https://academic.eurekah.com/doi/10.1093/utorheart/aeh371?supplementary-data
The Virtuous Circle

Research → Guidelines → Textbook → Education → EORP Registries → Research
ESC Education

A wealth of educational activities:

Dissemination of ESC Clinical Practice Guidelines to improve cardiovascular outcomes

• Guidelines into Practice tracks
• Clinical case gallery
• Clinical webinars
• European exam. Clinical Cardiology
• General Cardiology programme V2 in ESCeL
The Education material will be produced in close collaboration with the CPG and will take into account:

- **Priority of implementing the Key points from the Guidelines**
- Need for filling the gaps in knowledge
- Common MCQ’s Platform *(Guidelines, Textbook, Education)*
- Mobile Apps about the new Guidelines *(AF Pilot :”Catch me “)*
The Virtuous Circle
The New Objectives of the EURObservational Registry Programme

To evaluate the use of **ESC guidelines** in Europe and provide information to implement an **educational programme** to fill in the gaps.
Plans for New Registries

Move from continuous to snapshot registries

- 3-4 months data collection
- Limited follow-up (max. 1 year)

Registries ~2 years after the release of Guidelines, in order to:

- Evaluate the quality of the implementation of the Guidelines: the key points to be checked in priority will be those defined by Guidelines/Education
- Provide outcome measurements

Then:

- Inform the next Guidelines TF
- Identify the gaps in knowledge ie. the need for future educational material
EORP Objectives

• To be representative of Europe

• To understand and evaluate current medical practices in different cardiology sub-specialties

• To be initiated/conducted with the active participation of ESC Constituent Bodies  
   ESC sub-specialty associations  
   National Cardiac Societies

• To be managed centrally at the European Heart House (France)

• To cooperate with, but independently from Industry
Representativeness

• **Representativeness of Europe**
  – Invite 56 ESC members
  – Check balance between European regions

• **Representativeness between countries**
  – To avoid major discrepancies between country size and the number of centres / patients

• **Representativeness within countries**
  – Geographical distribution
  – Inclusion of different healthcare structures
    – University/tertiary centres and smaller referral hospitals
    – Public / private (when available)

➢ **EORP determines the number of centres / clusters per country**
Optimization of data collection and analysis

- CRF is elaborated by the Executive Committee

- Should focus on the objective of assessing practices and guidelines application. Define variables matching guidelines criteria

- Avoid too long/complex CRF

- Optimize the resources of e-CRF (optimize data collection time and data quality)

- Standardization of statistical analysis plan (descriptive variables and methodology to assess the concordance between practice and guidelines)
« The Pilot »

Valvular Heart Disease

VHD II Snapshot Registry
Valvular Heart Disease (VHD II) Survey
Enrolment curve
New Snapshot Registries and Planning

- 2018 - Valve Durability (EAPCI): Transcatheter Aortic Valve Implantation (TAVI)
- 2018 - AF III: Atrial Fibrillation Phase III
- 2018 - Non STEMI : Acute Coronary Syndrome
- 2018 - HF III: Heart Failure Phase III
- 2018 - EURECA (EACVI) : European Registry of Cardiac Imaging
- 2019 - STEMI : Acute Coronary Syndrome
- 2020 - PAD : Peripheral Arterial Disease
Quality Improvement programme
Needs assessments → outcome measurement

Pilot with ‘Stroke prevention and management in Afib’ (submitted to EUROPACE)
‘Awareness in Mitral Regurgitation’ (Accepted in Eur Heart J)

1. Evidence-based educational programme based on needs assessment and gap analysis
   - ESC Clinical Practice Guidelines → what should be
   - Registries and behavioural needs assessments → what actually is happening in practice

2. Educational design & deployment
   - Gaps identified → learning objectives and educational design

3. Outcome measurement involving registries

Phase 1
- Gap analysis, evidence gathering (AXEDEV)

Phase 2
- Learning objectives, educational design and deployment

Phase 3
- Outcome measurement
The ESC Virtuous circle on VHD: a Pilot!

New VHD Guidelines in August 2017

Behavioural studies
Awareness on MR
(In Press EHJ)

VHD II completed
August 2017
• Improve the links with guidelines, education, registries, in order to optimize the sessions organized by these entities during the congress

• Enrich sessions at ESC Congresses to make them more impactful
  - Introduce pre/post testing
  - Guidelines-based interactive sessions with self-assessment

• Think about new formats of sessions such as sessions with guidelines/EORP/Atlas for a specific NS
Integrated approach & Synergies

ESC Core Curriculum
Training & lifelong learning framework

Define what should be

Definition of gaps & needs identification

Dissemination

Technology Enhanced Learning expertise

Outcome measurement & EROP

Educational initiatives
Learning programmes

Guidelines
Textbook

Define what actually is

+ Congress
Governing Body/Think Tank

Guidelines Education Congress EORP Publications (GECEP)

ESC Committee for Practice Guidelines Chairperson / HOD: S. Windecker / V. Dean
ESC Education Committee Chairperson / HOD: P. Kirchhof / C. Carrera
Congress Programme Committee Chairperson / HOD: S. Achenbach / C. Gouilllard
EORP Oversight Committee Chairperson / HOD: A. Vahanian / H. Druais
Publications Committee Chairperson / HOD: T. Luescher / M. Alexander

Permanent Guests:
ESC President: J. Bax
ESC President Elect: B. Casadei
ESC CEO: I. Bardinet
ESC COO: M. Morrissey
ESC Scientific Affairs Director: S. Martin

Secretary: N. Cameron
Conclusion

- Integrate scientific, clinical and medical education initiatives

- Ensure ESC’s scientific and educational offer is evidence-based, needs-driven and relevant to ESC members

- We have a unique opportunity to move to «a modern education concept»!

Collaboration with ESC constituent bodies: Sub-speciality associations, WG, councils and ESC country members will be key

« Together we achieve more »