Activities and effects of qualification system of elastic compression stocking conductor of Japanese Society of Phlebology

Japanese approach

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Japanese approach for compliance of compression therapy

• Not much of medical staffs know about stocking or bandage.
  • No time for M.D., outpatient nurses and ward nurses
  • Who educate patients about compression?
  • Who listen to patients word?

• We increase **compliance with team approach**.

• We increase **number of medical professionals** with knowledge of compression therapy:

  Elastic stocking conductor
Establishment of qualification system of elastic compression stocking conductor of Japanese Society of Phlebology

- Japanese Society of Phlebology established qualification system of elastic compression stocking (ECS) conductor in 2002 by professor Masafumi Hirai.

- to promote proper usage of ECS and elastic bandage
  - Including enhancement of compliance

- to prevent complication of ECS and elastic bandage

- for treatment and prevention of venous disease, and also treatment of lymphatic disease
Japanese guideline for VTE prophylaxis was published in 2004, revised in 2009.

Based on ACCP guideline due to scarce Japanese evidence.
Japanese Medical Insurance reimbursement of ECS and elastic bandage in 2004

• Reimbursement of management fee for prevention of pulmonary embolism prophylaxis in 2004
  • 305 points = approximately 30 Euro
  • Apply Only for high risk in-hospital patients
  • Should be managed under the guideline
  • Only for the patients who were applied ECS, elastic bandage or IPC

• Management of secondary lymphedema in 2008
  • Up to approximately 300 Euro per half year
Perioperative pulmonary thromboembolism in Japan - the results of perioperative pulmonary thromboembolism research by the Japanese society of anesthesiologists (JSA-PTE research)

Mechanical prophylaxis approval

- Fondaparinux
  Orthopedics June 2007
  Abdominal May 2008

- Enoxaparin
  Orthopedics Jan. 2008
  Abdominal Feb. 2009

- Edoxaban
  Orthopedics April 2011

Incidence of Perioperative PE is 0.005%
Sharp Increase of ECS and IPC usage for reimbursement VTE prophylaxis in Japan after 2004

These data is based on post operative PE patients, not all surgical patient.
ESC conductor seminar

- Half day course with 100-300 attendees
- 8 seminar per year
- Independent financials
  - Class fee: approx. 50-80 Euro per attendee
  - Exhibition fee from stocking company: 300-500 Euro per company
ESC conductor seminar: Lectures

- Official text
  - Venous anatomy physiology & disease
  - Prevention of Deep vein thrombosis and PE
  - Lymphedema
  - Theory and practical usage of ESC and bandage
Hands-on seminar of ECS & bandage

Hands-on with video viewing

How to apply elastic bandage with subbandage pressure measurement
Currently, **total number exceed 2384** in 2017 and about 250 ECS conductors are qualified every year. ESC conductor qualification was issued after 30 patients' clinical experiences.
Case of Increased compliance of compression therapy by meticulous consultations by ECS conductor

80’s y/o Female

Venous stasis ulcer due to immobilization and knee/hip arthropathy. Difficult to reach bend her legs. Leg elevation was instructed. Compression therapy with ECS or bandage was started.
Worsen Venous Stasis ulcer after three month

Living alone without assistance and depression.

ECS conductor (outpatient nurse) found the reason of poor compliance of compression therapy and poor hygiene
Cured Venous stasis ulcer after 5 months

Introduction of visiting nurses and home helpers to help compression therapy. Finally her son came back from abroad and her depression disappeared.
Conclusions
Activity of ESC conductors for better compliance

• ESC conductors are currently working
  • in the outpatient clinic for treatment of venous and lymphedema
  • at inpatients ward for prevention VTE.
  • ECS conductors with good knowledge of ECS and diseases increase of compliance of ECS by meticulous consultation on compression therapy.