

Chemotherapy induced cardiomyopathy after pregnancy

1st manifestation of cardiac toxicity 14 years after Hodgkin's disease



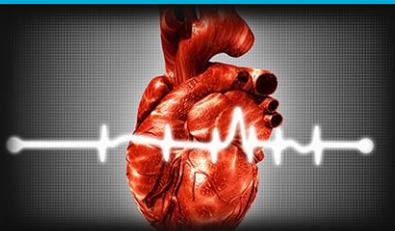
The 4th International Congress
on Cardiac Problems in Pregnancy (CPP2016)
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LAS VEGAS, Nevada, USA



Esther Hink, MD Obstetrician, Nijmegen, the Netherlands

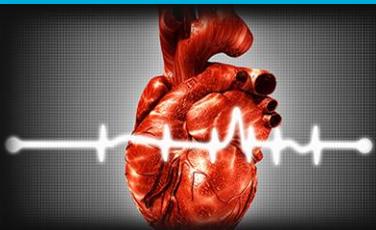
Esther.Hink@radboudumc.nl

Radboudumc



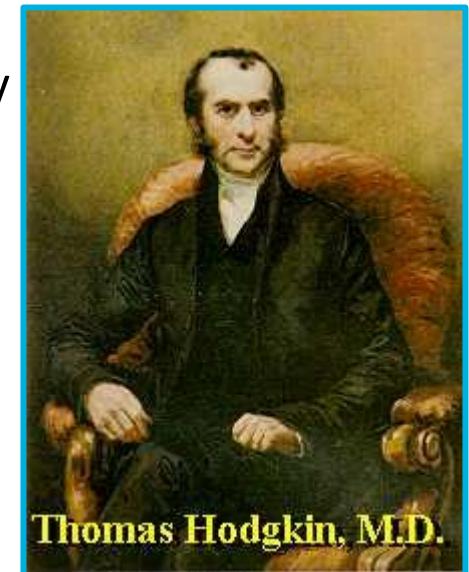
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Hodgkin's disease

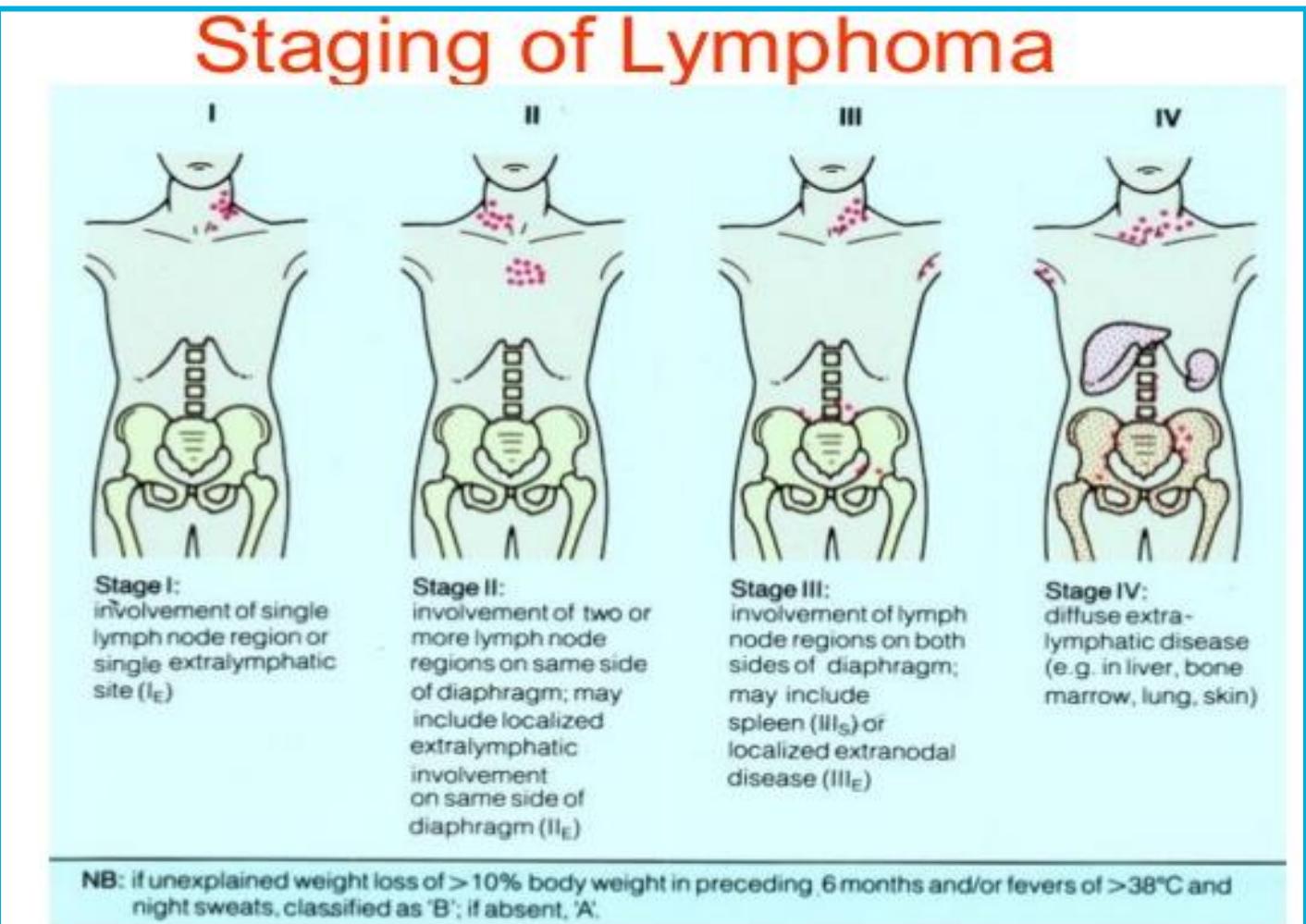
- First described 1832
- Clinical features
 - Bimodal age distribution: young adults & elderly
 - M>F
 - Lymphadenopathy





Hodgkin's disease

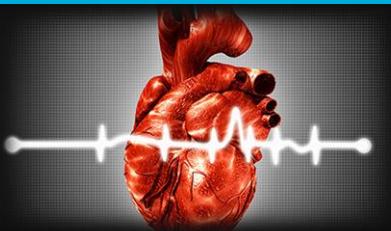
- Treatment
- Complications
 - transitory
 - chronic
 - cardiac





American Heart Association

- class I recommendation:
 - regular LVEF monitoring for early diagnosis and treatment of anthracycline-based chemotherapy (AC) induced cardiomyopathy (AC-CMP).
 - limited data on surveillance patterns prior to, during and after pregnancy in patients with a history of Hodgkin's disease treated with AC

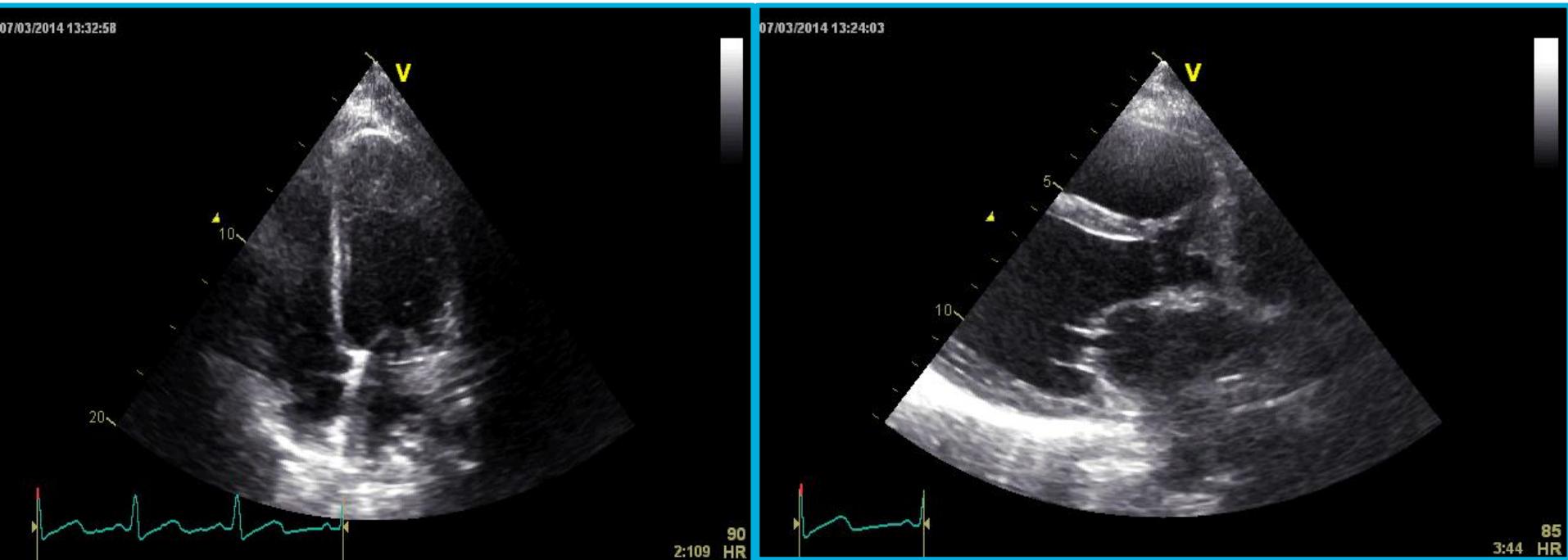


Case (1)

- 33 years
- 2000: Hodgkin's disease
 - stage II-B: nodular sclerosis, lymphadenopathy; right supraclavicular + mediastinum
 - treatment: involved field radiotherapy + 4x ABVD
- 2014: delivery at 40 wks+4dys
 - a vacuum extraction due to labour dystocia, healthy boy



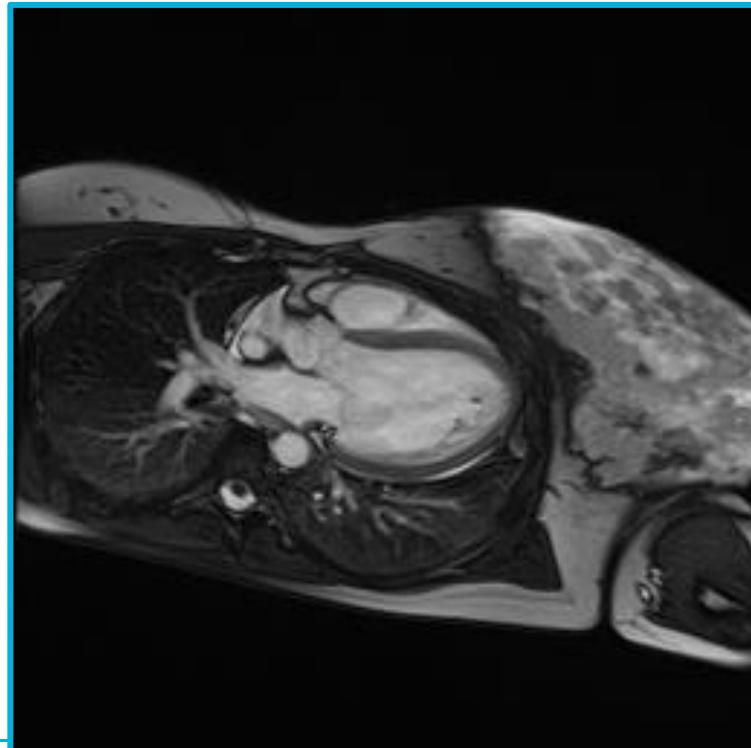
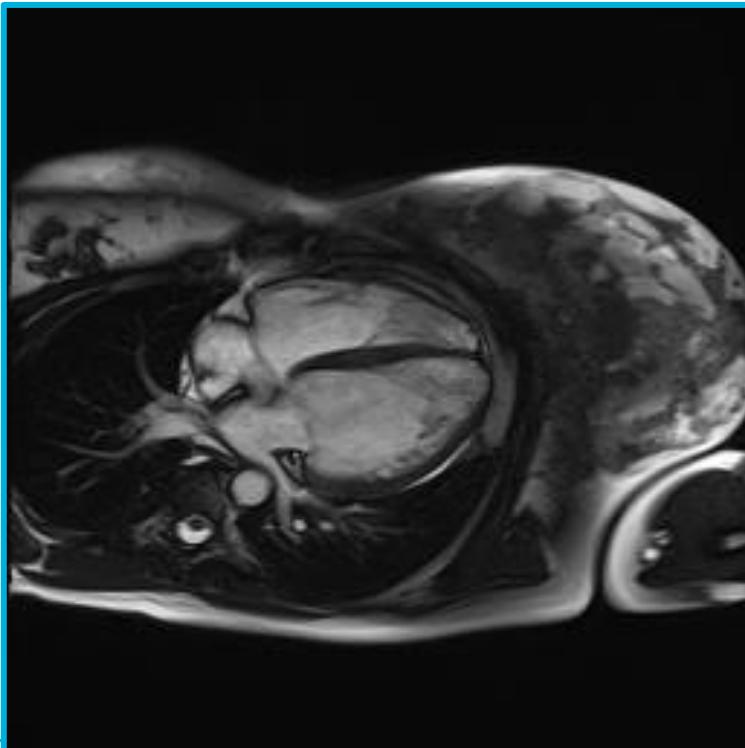
Case (2): 2 days after delivery

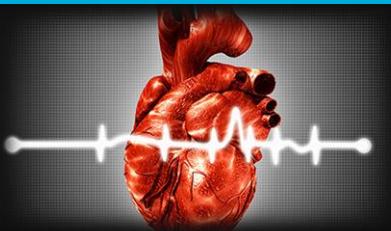




Case (3)

- **Heart MRI:** a non-dilated, left ventricle with LVEF 43%.





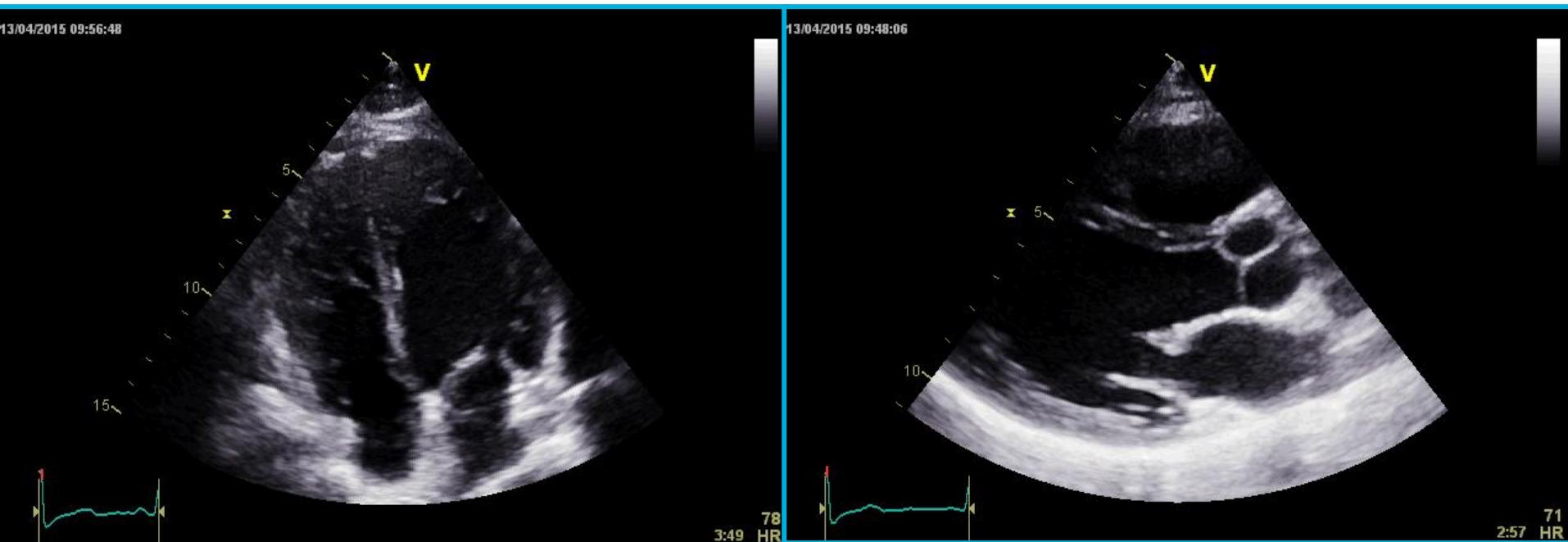
Case (4)

- No known heart function prior to pregnancy.
- Oral history
 - cardiac symptoms (shortness of breath and limitation during ordinary activity) years before pregnancy.
- After discharge 3 months multidisciplinary heart revalidation



Case (5): 1 year after delivery

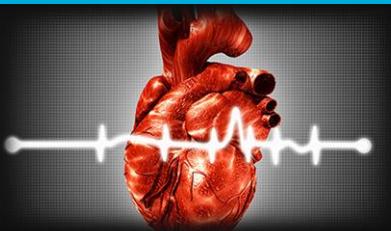
- limitations during ordinary activity, impaired LVEF (45%)





Conclusion

Diagnosis: AC-CMP with chronic heart failure, NYHA II.



Recommendations

- All caretakers of women of reproductive age after oncology treatment with cardiotoxic chemotherapy, should be aware of this possible manifestation of AC-CMP.
- Specific multidisciplinary tertiary centered care and monitoring of these patients prior to, throughout pregnancy and thereafter is crucial in preventing morbidity and mortality.

