

**ESMO** Preceptorship Programme

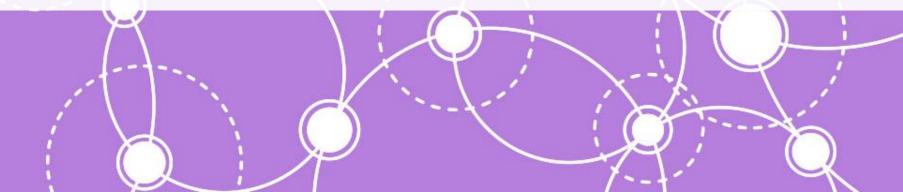
Ovarian Cancer – Prague – 21/22 April 2017

European Society for Medical Oncology

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#### A Patient with Multiply Relapsed Platinum-Sensitive Primary Peritoneal Carcinoma



# Case history: 2001

• 60-year old; no co-morbidity

EST PRACTICE

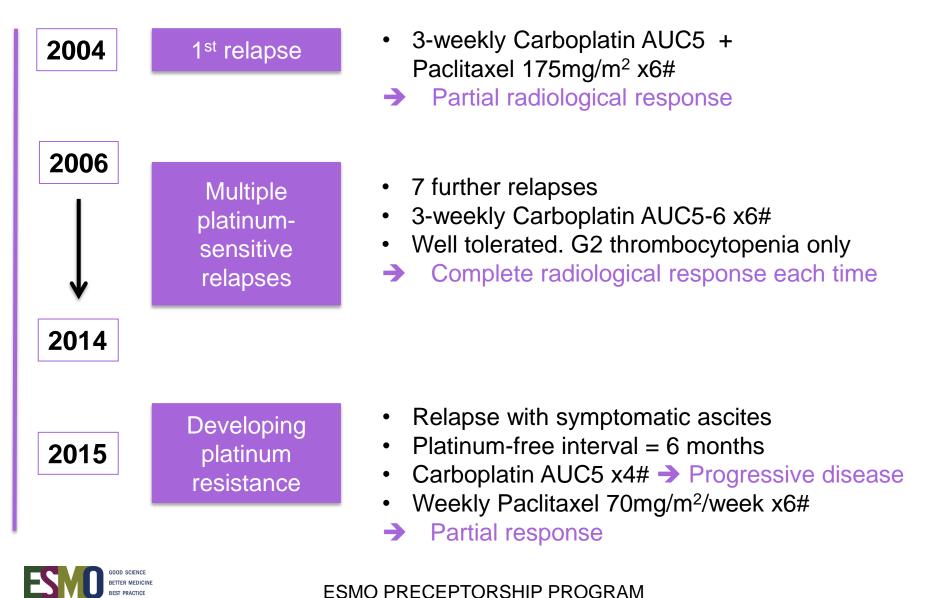
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- Family history: Mother gastric cancer at 81. No other FHx of cancer
- Ethnic background: White-British. From Yorkshire

Abdominal bloating & post-menopausal bleeding	<ul> <li>CA125 normal</li> <li>CT – omental + peritoneal deposits</li> <li>Biopsy – adenocarcinoma</li> <li>Clinical dx: Stage 3 PPC</li> </ul>
$\checkmark$	
Primary surgery	<ul> <li>TAH + BSO + omentectomy + pelvic node sampling</li> <li>Residual: 2cm obturator fossa deposit + miliary disease</li> </ul>
$\checkmark$	FIGO Stage 3C high grade serous/endometrioid primary peritoneal carcinoma
Post-operative chemotherapy	<ul> <li>SCOTROC 2 trial</li> <li>Carboplatin x4# + Gemcitabine/Paclitaxel x4#</li> <li>End of treatment CT: sub-cm nodule only → Near CR</li> </ul>

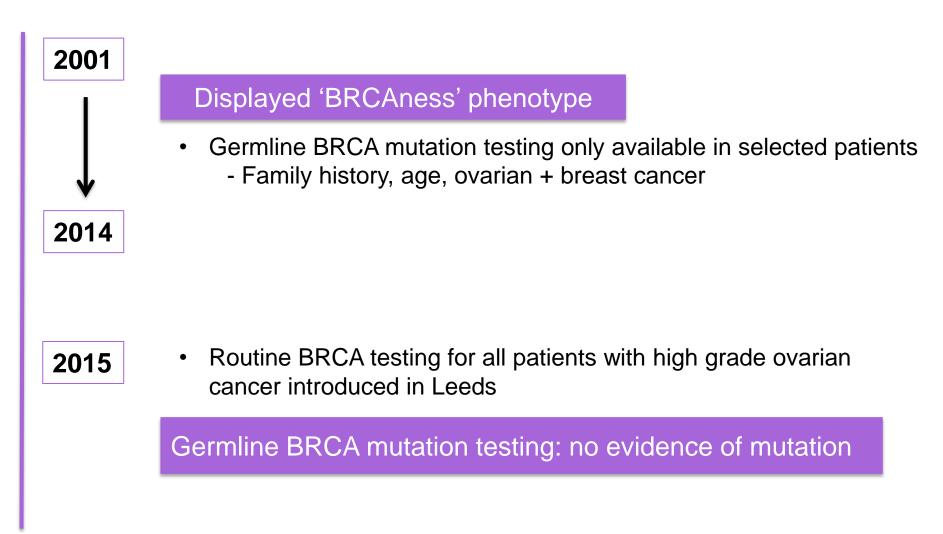
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#### Multiple platinum-sensitive relapses



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## BRCA mutation status?





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## Molecular profile directed therapy

#### 2016

Symptomatic progression with increased volume ascites

• 4 months post-paclitaxel (10 months after last platinum)

#### Tumour molecular profile performed on cell block from ascitic fluid

- Enrolled in LCC-CARIS-01 trial
- Feasibility study of routine molecular profiling in gynae cancer
- Multi-platform tumour tissue profiling by Caris Life Sciences, Irving, Tx, USA

Next generation sequencing pathogenic mutations

• TP53 mutation

Somatic BRCA1 mutation

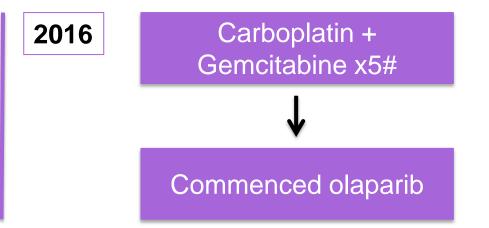
Protein expression of chemo-sensitivity biomarkers

- Potential benefit platinum & gemcitabine
  - ERCC1 & RRM1 negative
- Lack of benefit taxanes & topotecan
  - TUBB3 positive, TOPO1 negative



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#### Treatment decision...



- Symptomatic benefit with decreased frequency of paracentesis
- Complicated by haematological toxicity

Tumour molecular profiling helped guide therapy in this patient

- Gave her the opportunity to receive a PARP inhibitor as part of routine treatment
- Highlights role for somatic BRCA testing in germline BRCA negative patients with 'BRCAness' phenotype

