

GSK Oncology R&D Update

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Increased oncology focus via BD and governance



16* assets in clinical development; potential for 3 launches in 2020



** Studies planned for 2019



New alliance with Merck* is an opportunity to further accelerate our oncology strategy



Current clinical status

Encouraging NSCLC data presented

Phase II underway versus pembrolizumab as 1L in patients with PD-L1+ advanced NSCLC

8 clinical development studies ongoing or expected to start in 2019

Complements existing assets

Immuno-modulatory biological mechanism fits with our new R&D approach

Potential for novel combinations with existing pipeline assets (ICOS, TLR4)

Potential to explore combinations with IO assets in the recently acquired TESARO pipeline



PARP inhibitors: wider application than has been appreciated



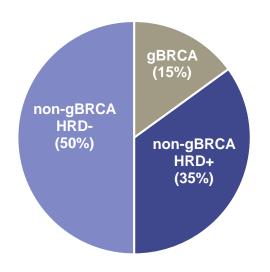
PARP Inhibitors: The First Synthetic Lethal Targeted Therapy

Science. 2017 March 17; 355(6330): 1152–1158. Christopher J. Lord^{1,2,*} and Alan Ashworth^{3,*}

PARP inhibitors have transformed the treatment of ovarian cancer

- Prior to the publication of TESARO's NOVA study, PARP inhibitors were thought to only benefit patients with gBRCA
- Evidence is mounting that suggest there is a significant opportunity to help many more patients (HRD positive – and potentially "all comers") – in the first line maintenance (1LM) setting

High grade serous ovarian cancer*



PARP: poly ADP-ribose polymerase; HRD: homologous recombination deficiency

^{*} As per Myriad test - HRD+ percentage may be higher



GSK'916 (BCMA ADC): aggressive development plan in multiple myeloma advancing rapidly



July 2018

- Initiated DREAMM-2 4L monotherapy pivotal study
 - -1st subject dosed early July
 - Planned to recruit 130 patients
- Announced broad development plan DREAMM-1 to -10 studies:
 - 4/3L in mono and combo
 - 2L in combo with SoC
 - 1L in combo with novel and SoC agents

83 patients treated on '916 at end July 2018

February 2019

- DREAMM-2 enrolled faster than expected
 - Planned 130 patients enrolled by Oct 2018
 - High study screening rate meant additional 68 patients enrolled by end December 2018
- Updated DREAMM-1 study shows mPFS with 3.4mg/kg of 12.0 months; publication in leading journal expected shortly
- Initiated DREAMM-6 combination pilot study; recruiting well

297 patients treated on '916 at end Jan 2019

SOC: standard of care mPFS: months of progression free survival



Q&A