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Searching the pharmacorigilance databases found that 92. cases of HILH secondary to nivolunab and 61 cases secondary to Initimumab had been reported to WHO's Visibase, while 93 cases secondary to nivolumeb and 65 cases secondary to ipilimnous bare been reported to the Endna Vigilance database. \*\* 10 It is unclear from these databases whether these immunotherapies were given in combination or if any of them were a rechallence. A small mumber of cases of HLH secondary to checkpoint inhibitor therapy have been published in the literature to date and see summarised previously (table 1). All patients received steroids as treatment for HLH, with four patients also receiving econoride. mycophenolate or plannapheresis. The majority of patients had a complete response with regard to HLH, which is a scribingly better outcome than those even in primary HLH. Most patients had at least a partial response to their cancer, with one study, by Kalonuk et al., describing a patient who was successfully rechallenged with pembrolismouth for head and neck aguamous cell. carcinoma progression without HLH recurrence. 11 Noveble. no patients with HLH eccondary to influmeb and nisolumeb were rechallenged with alvolumes monotherapy, making our case unique.

Contributions: Zif provided care to the patient while she was in the hospital and was also the principal counterors to the dealing of the report. All also provided care to the patient during her admission and also considerated to the waiting and editing of the report. AC completed significantly to measuring and editing the article.

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Core reports provide a veheable fearning resource for the scientific community and can indicate arrest of interest for fearne respects. They should not be used in isolation to guide treatment choices or public health policy.

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