



BUILDING AN IO SERVICE

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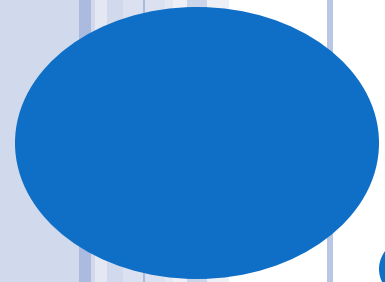
INITIAL QUESTIONS

- What is the scale of the issue ?
- Where are the main pinch points?
- What resources are we currently using?
- What can we implement easily?
- What reorganisation can we do?
- What do we want the 'service' to look like?
- What do we need to achieve it?
- How do we balance cost and demand?
- What outcomes can we achieve?



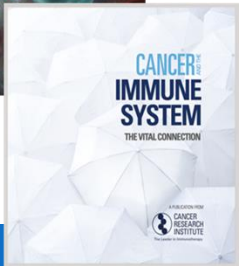


WHAT IS THE SCALE OF THE ISSUE ?



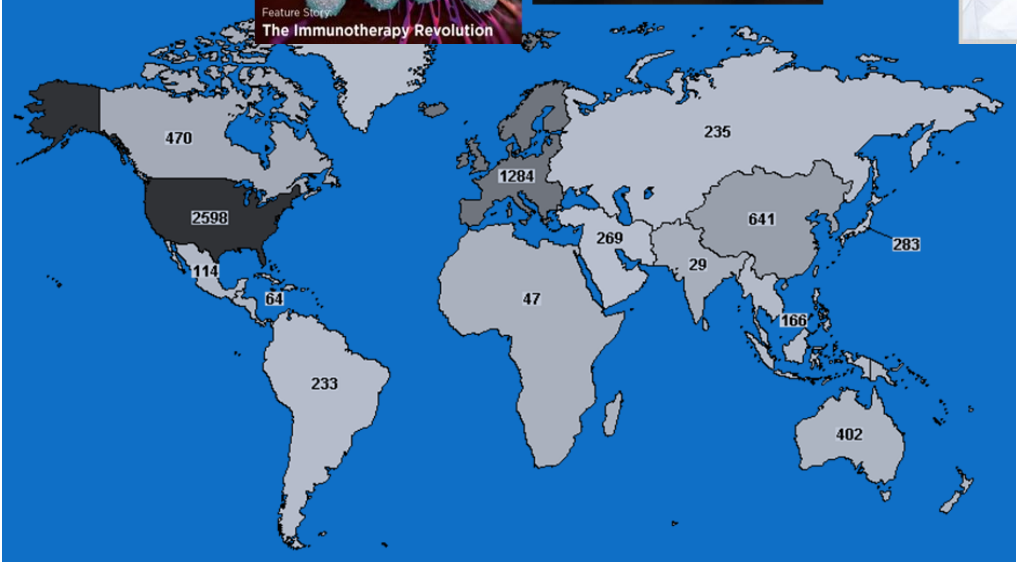
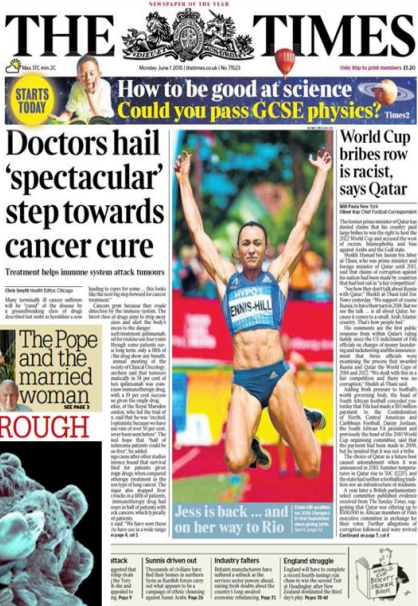
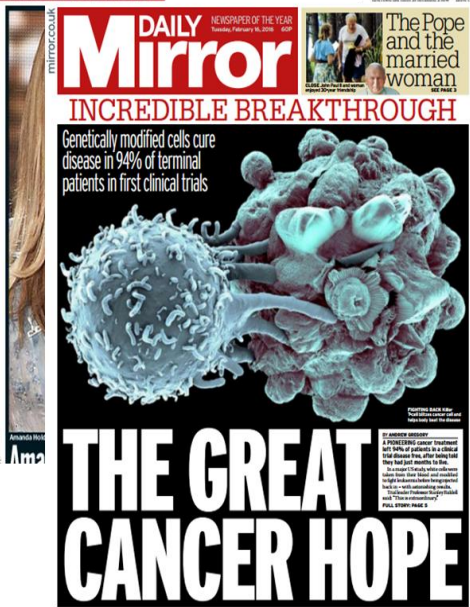
BACKGROUND

ONCOLOGICAL IMMUNE CHECKPOINT INHIBITORS



Revolutionary treatment that will save thousands hailed as 'biggest breakthrough since chemotherapy'

A CANCER treatment From Sophie Kortland





Monotherapy

Metastatic
Disease
1st line
2nd line
3rd line and
beyond

Combination Therapy

Metastatic
Disease
1st line
2nd line

Monotherapy

Maintenance
Locally
Advanced
Following
Chemo-
radiotherapy

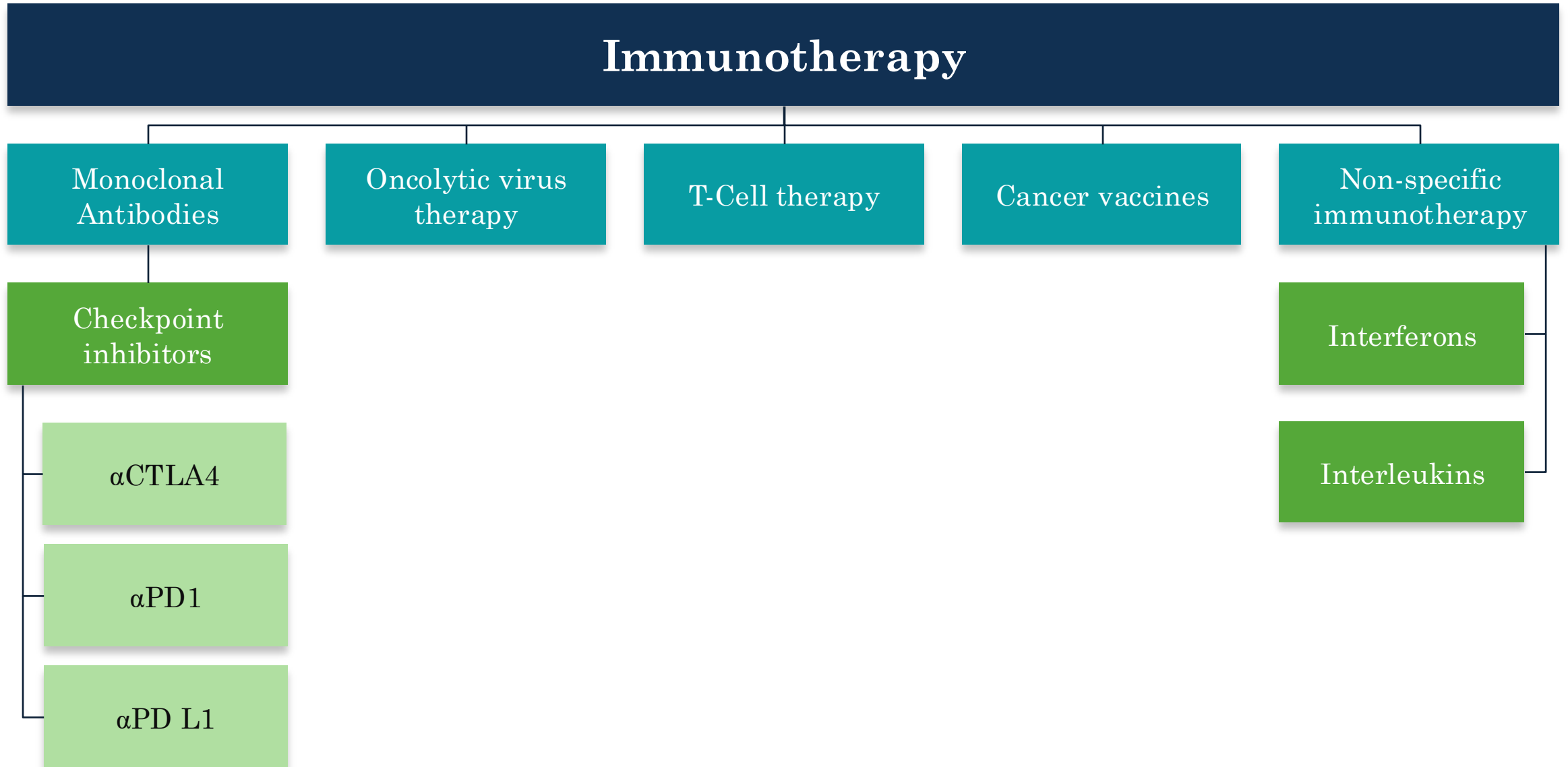
Monotherapy

Adjuvant
(increasingly
earlier stage)

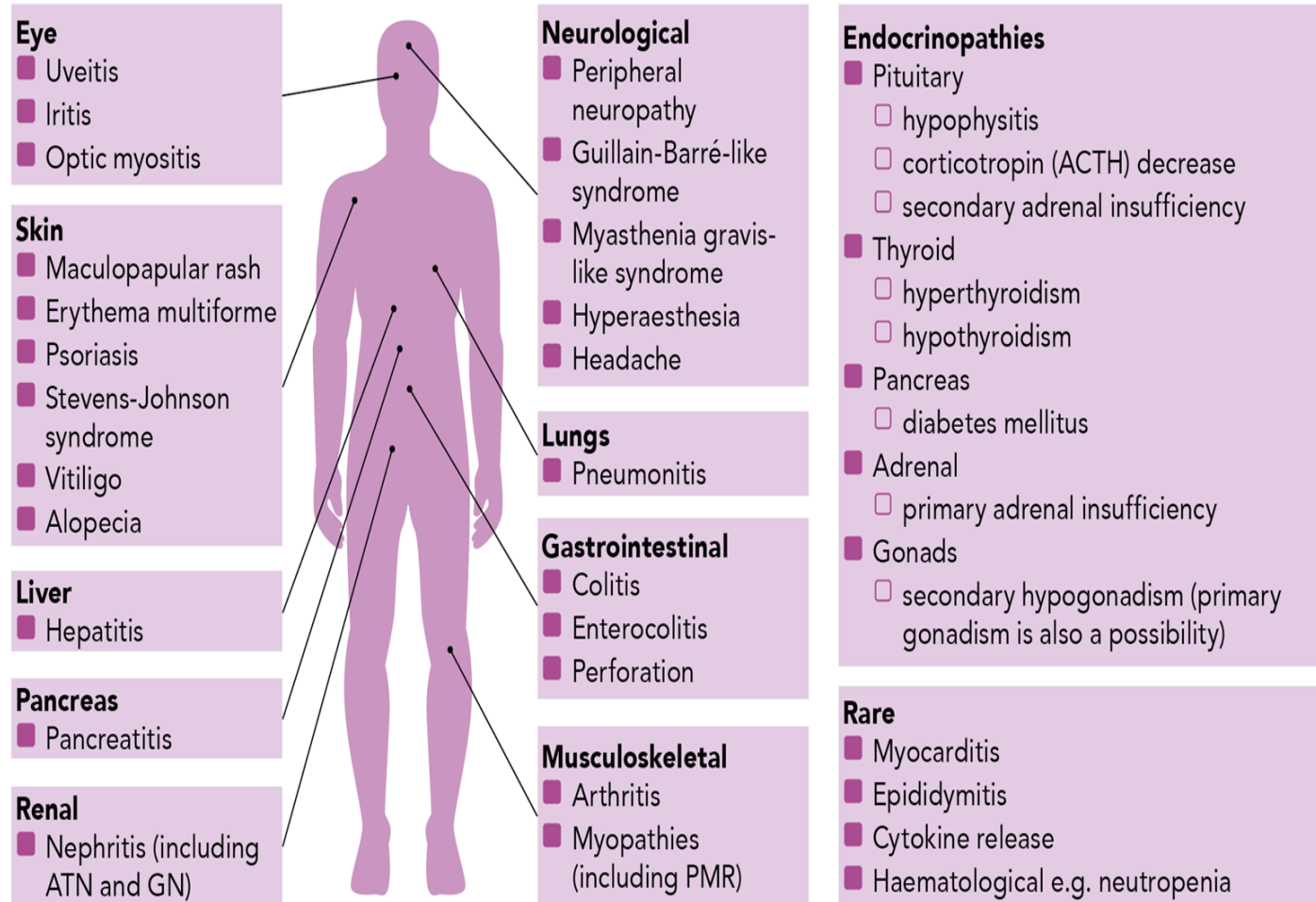
Combination Therapy

Neoadjuvant
Adjuvant

A WIDE FIELD



IMMUNE-RELATED ADVERSE EVENTS (irAEs)



Grade 3-4 Reactions:

- CTLA-4 27%¹
- PD-1/PDL-1 up to 19%¹
- Combination treatment (CTLA-4 and PD-1/PDL-1) up to 58%¹

The data on this slide is taken from clinical trials.

irAE = immune-related adverse event; DRESS = Drug reaction with eosinophilia and systemic symptoms; GI = gastrointestinal.

1. Olsson-Brown, Harker. 2018. Guidelines in Practice. 2. Suarez-Almazor ME, et al. *Arthritis Rheumatol.* 2017;69:687-699; 3. Cappelli LC, et al. *Arthritis Care Res (Hoboken).* 2017;69:1751-1763; 4. Cappelli LC, et al. *Rheum Dis Clin North Am.* 2017; 43:65-78.



WHAT ARE THE MAIN PINCH POINTS ?



WHAT IS THE CURRENT MODEL?



WHAT CAN WE IMPLEMENT EASILY?



WHAT REORGANISATION CAN WE DO?



WHAT DO WE WANT THE 'SERVICE' TO LOOK
LIKE?



WHAT DO WE NEED TO ACHIEVE IT?



HOW DO WE BALANCE COST AND DEMAND?



WHAT OUTCOMES CAN WE ACHIEVE?