

As we age cells can become senescent.

A build-up of **senescent** cells may cause impairments in cognition and mobility



## A SENOLYTIC INTERVENTION TARGETS THE ELIMINATION OF SENESCENT CELLS

IS IT FEASIBLE? SAFE? EFFECTIVE?



### Population

Older adults with mild cognitive impairment and slow gait speed



### Senolytic Treatment

100 mg of **Dasatinib** & 1250 mg of **Quercetin**  
2 consecutive days, every 2 weeks



BASELINE

WK 14



## SENOLYTIC STUDY APPEARS FEASIBLE & SAFE



**12 out of 15**  
INDIVIDUALS  
COMPLETED THE  
INTERVENTION



**99%**  
COMPLIANCE  
WITH STUDY  
MEDS



- Only **8%** of adverse events possibly related to intervention
- No serious adverse events related to intervention

## SENOLYTICS MAY HELP COGNITION & MOBILITY, BUT NEED MORE DATA ON EFFICACY



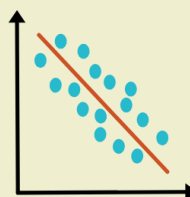
Stride length and gait speed appear to improve



Cognitive scores **↑** by **2 pts** in those with lowest baseline scores



TNF-a **↓** by **~15%**



Improvements in cognitive scores significantly correlated with % reductions in TNF-a ( $r=-0.65, p=0.02$ )