Objectives and main question

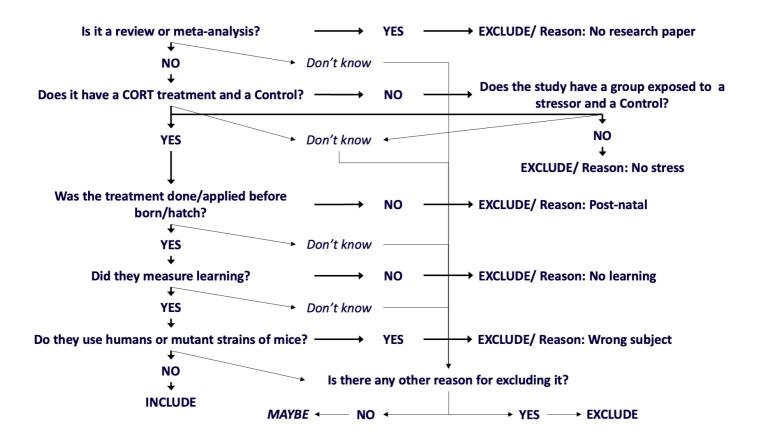
The main objective of the meta-analysis is examine how elevation of GCs during embryonic development affects learning abilities: **Does prenatal exposure to GCs affect learning?**

To do so, I need to identify studies that conducted some GCs-related manipulation on dams or eggs before hatchling and then measured learning abilities. More specifically, I will use studies testing the differences in learning performance of offspring coming from dams or eggs treated with GCs or submitted to any kind of stressor versus a control group.

In addition, I will also aim to test the influence of incubation temperature on prenatal GCs effects: **Does** the incubation temperature influence the effect of GCs-related treatment?

For that - if the number of studies is enough -, I will examine the impact of early thermal environment by employing only those studies that include the incubation temperature of eggs and investigating the relationship between temperature and GCs' effect. </div>

Screening papers – Selection criteria:



Concepts in decision tree:

- Definitions and examples of CORT and stressors:
 - Other synonyms of CORT are Corticosterone, Cortisol, Glucocorticoids (GCs)
 - O Some procedures considered stressors in rats: learned helplessness, the forced swimming test, the tail suspension test, isolation, chronic mild stress, and sleep deprivation
 - We will consider a stressor anything else that is stated as a stressor directly by the authors
 - O If there is a treatment but we do not know if it can be stressful or not, then is a "Don't know" (see decision tree)
- Definitions and examples of learning:
 - Memory or cognition can be used as synonyms
 - Spatial or associative tasks can be synonyms of learning
 - O Also, another learning test usually used with rats is the Morris-water task/water task
- What is a "mutant strain" of mice/rats?

In some papers, they use laboratory reared strains of mice or rats that may be more sensitive to CORT or the stressor used; unless they also use a 'wild-type' mice, we will exclude those papers