Tips and tricks

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Level of pain *vs.* Procedure (some examples)

Procedure Classifications for Mice and Rats

Class	1	2	3	4
Pain Level	Mild Pain	Moderate Pain	Moderate/Severe Pain	Severe Pain
Examples	Subcutaneous implant with trocar Ocular procedures Tracheal injections Skin biopsy/wound Vessel cut down or cannulation Intramuscular injection Subcutaneous osmotic pump Dental extraction	Craniotomy with or without implant Simple laparotomy Embryo transfer Ovariectomy Castration Intra-peritoneal osmotic pump	Laparotomy with major organ manipulation or removal Organ transplant Spinal surgery	Peritonitis/pancreatitis Thoracotomy Hind limb ischemia Spinal or nerve injury Cecal ligation and puncture Orthopedics/Fractures Bone cancer

Mice *vs.* Human age
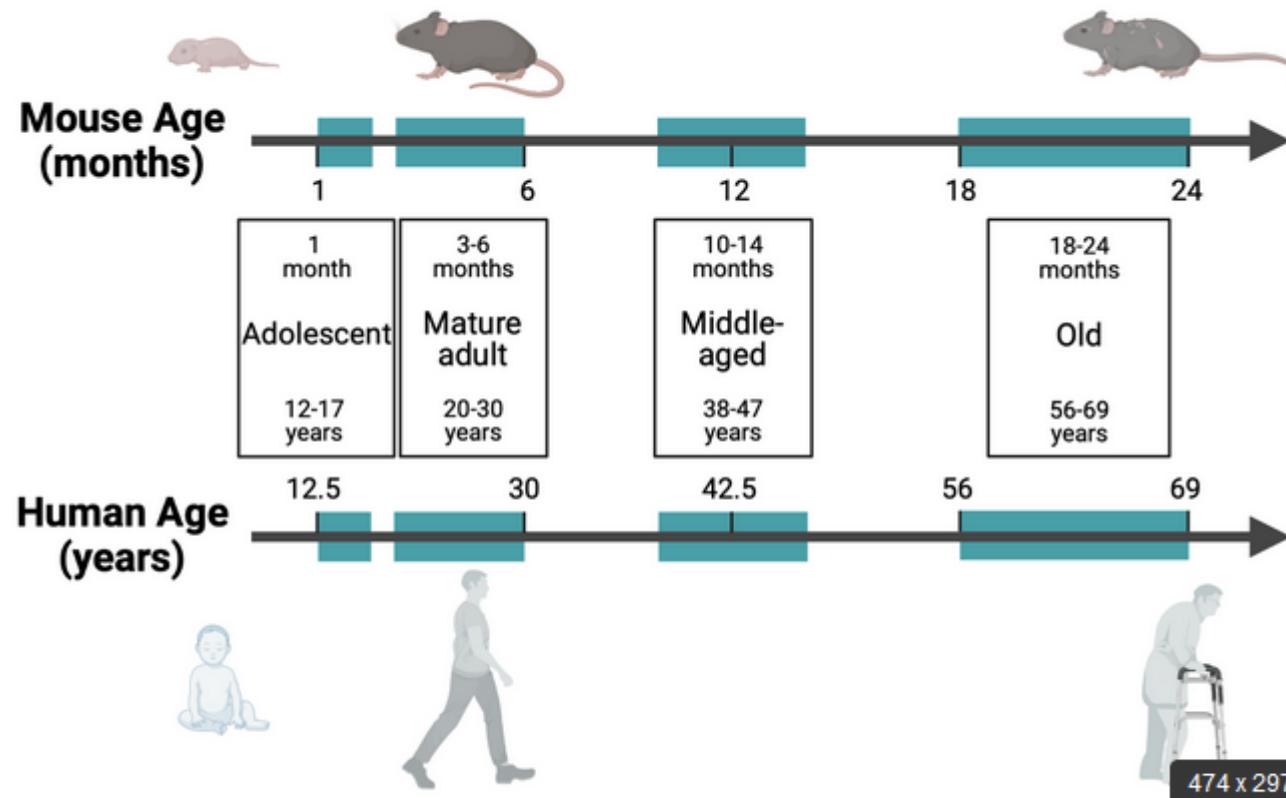
At what age are laboratory mice considered adult? | ResearchGate

Mice *vs.* Human age

	Weaning	Puberty	Adulthood
Human	180d	11.5y	20y
Mice	28d	42d	10w
H/M	180/28=6.43	4198/42=99.95	7300/70=104.3

1d mouse=6.5d human

1d mouse=100d human

1d mouse=105d human

Ex: a treatment of 10 days at 12w of age in mice = 1050 days in humans ≈ 3 years
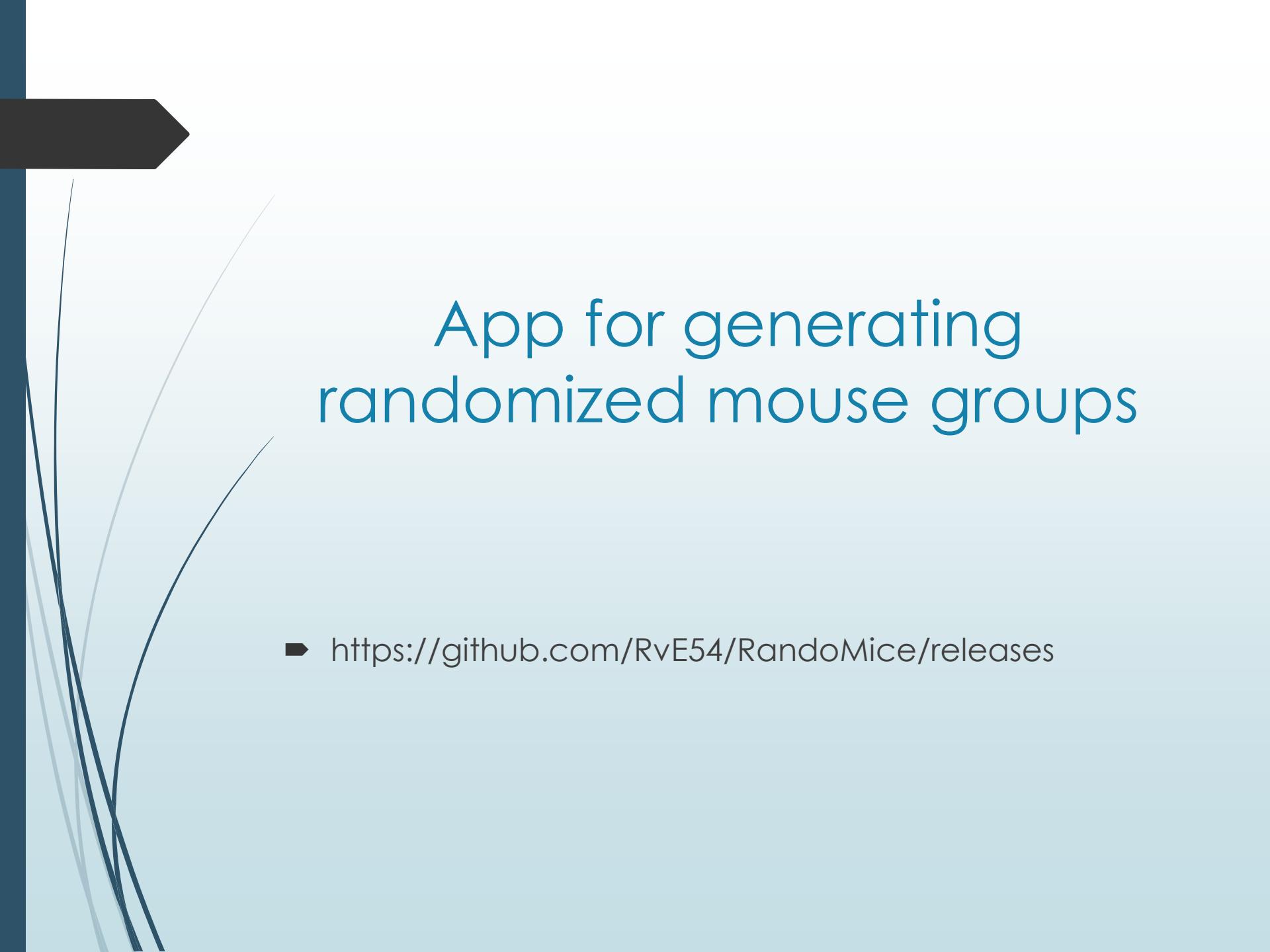
App for generating randomized mouse groups

- https://github.com/RvE54/RandoMice/releases