Title: Effects of the duration of postresuscitation hyperoxic ventilation on neurological outcome and survival in an asphyxial cardiac arrest rat model

Authors: Tongyi Hu[1], Jianjie Wang[1], Shuangwei Wang[2], Jingru Li[1], Bihua Chen[1], Feng Zuo[3], Lei Zhang[4], Yuanyuan Huang[5], Yongqin Li[1]

1 Department of Biomedical Engineering and Imaging Medicine, Army Medical University, Chongqing 400038, China

2 Shenzhen Dashen Institute of Biomedical Engineering Translation, Shenzhen 518060, China

3 Department of Information Technology, Southwest Hospital, Army Medical University, Chongqing 400038, China

4 Department of Emergency, Southwest Hospital, Army Medical University, Chongqing 400038, China

5 Department of Neurology, Southwest Hospital, Army Medical University, Chongqing 400038, China

Address for correspondence:

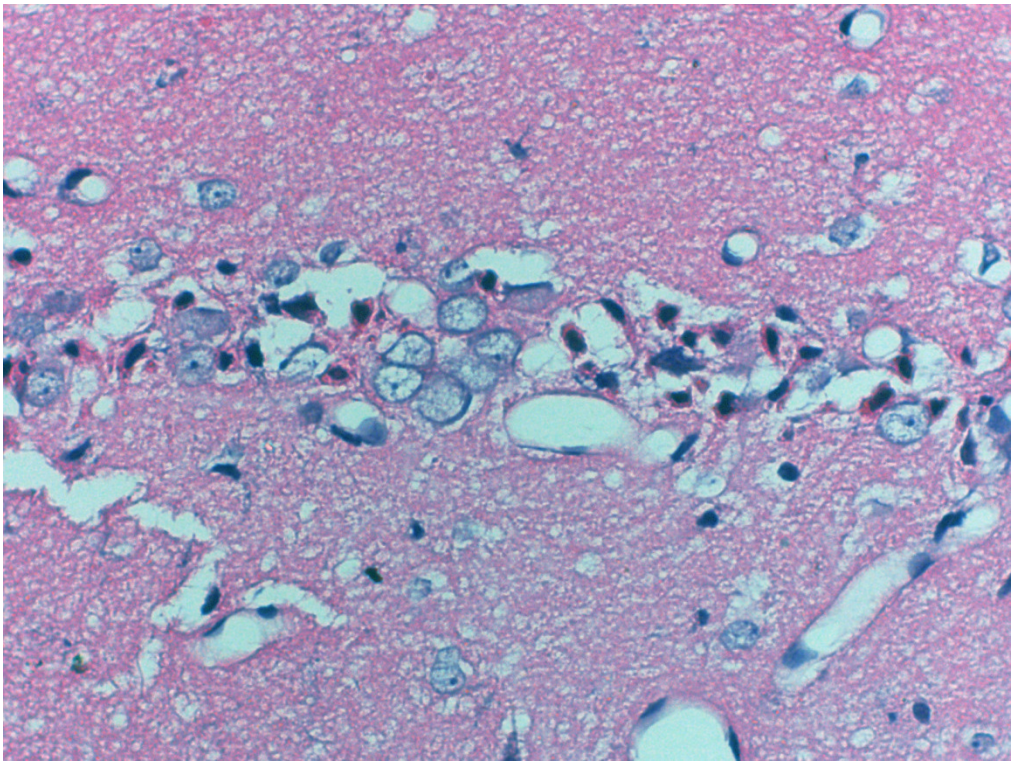
Yongqin Li, MSBME, PhD. Department of Biomedical Engineering and Imaging Medicine, Army Medical University. 30 Gaotanyan Main Street, Chongqing 400038, China.

Tel: (086) 23-6877-1725, Fax: (086) 23-6875-2329

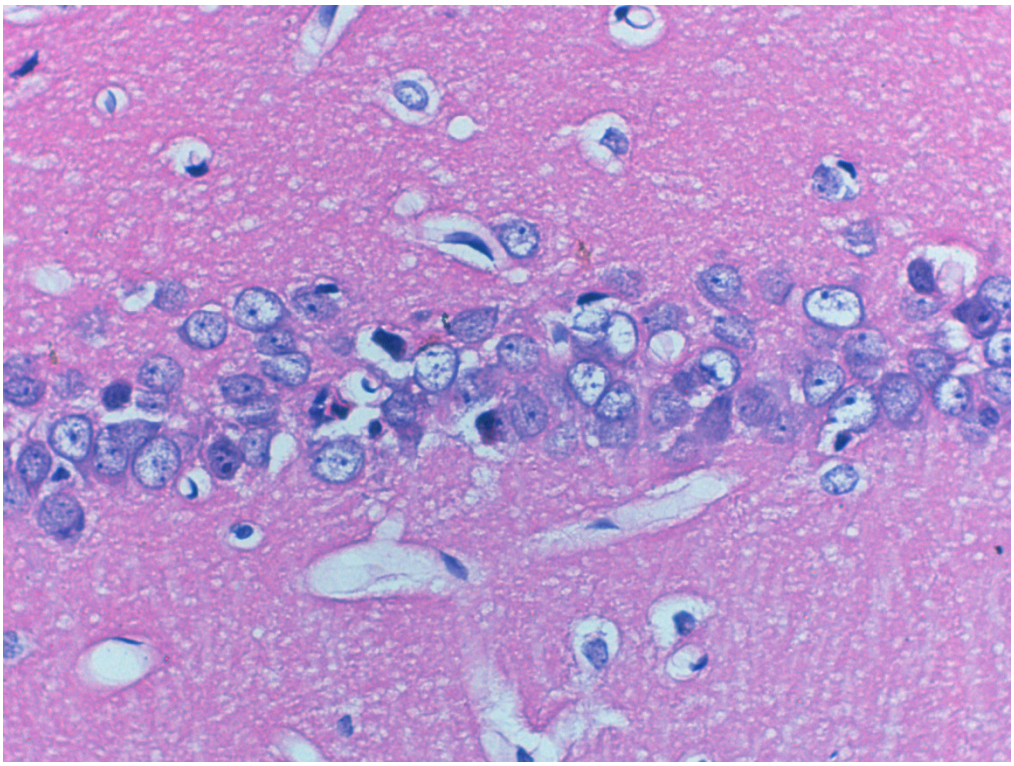
E-mail: leeoken@gmail.com, leeoken@aliyun.com

Supplementary figure S1: The micrographs (magnification, ×400) of the hematoxylin and eosin-stained CA1 region of the hippocampus 96 h after resuscitation in the surviving animals

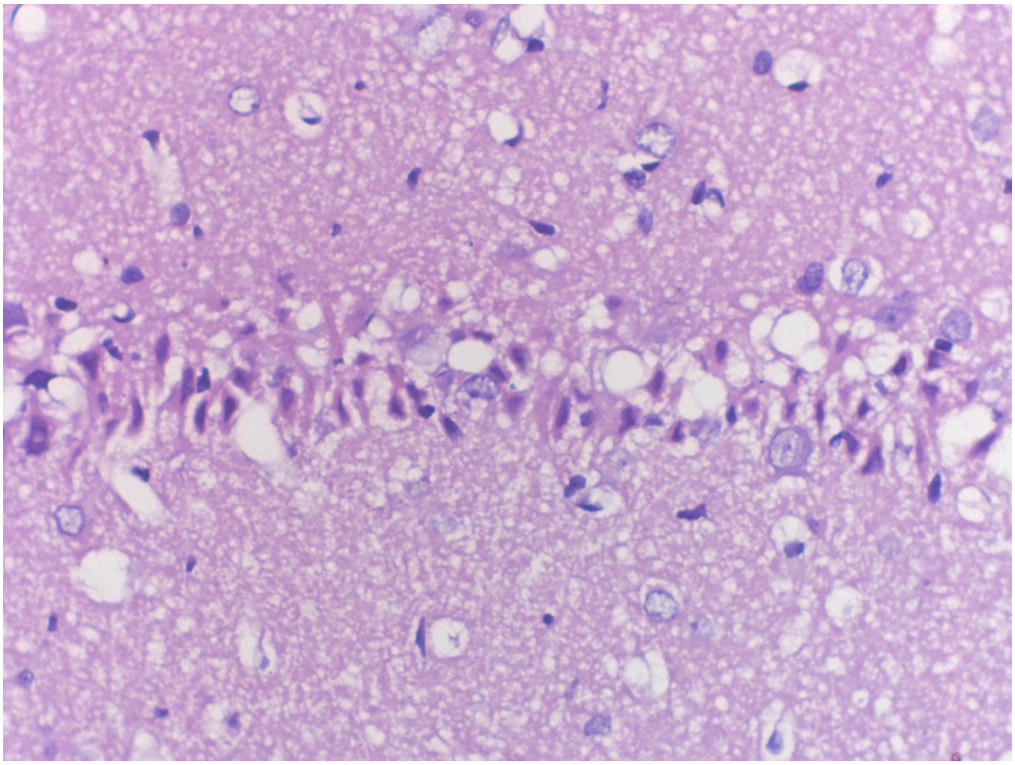
(A). normoxic control under normothermia (NNC) group



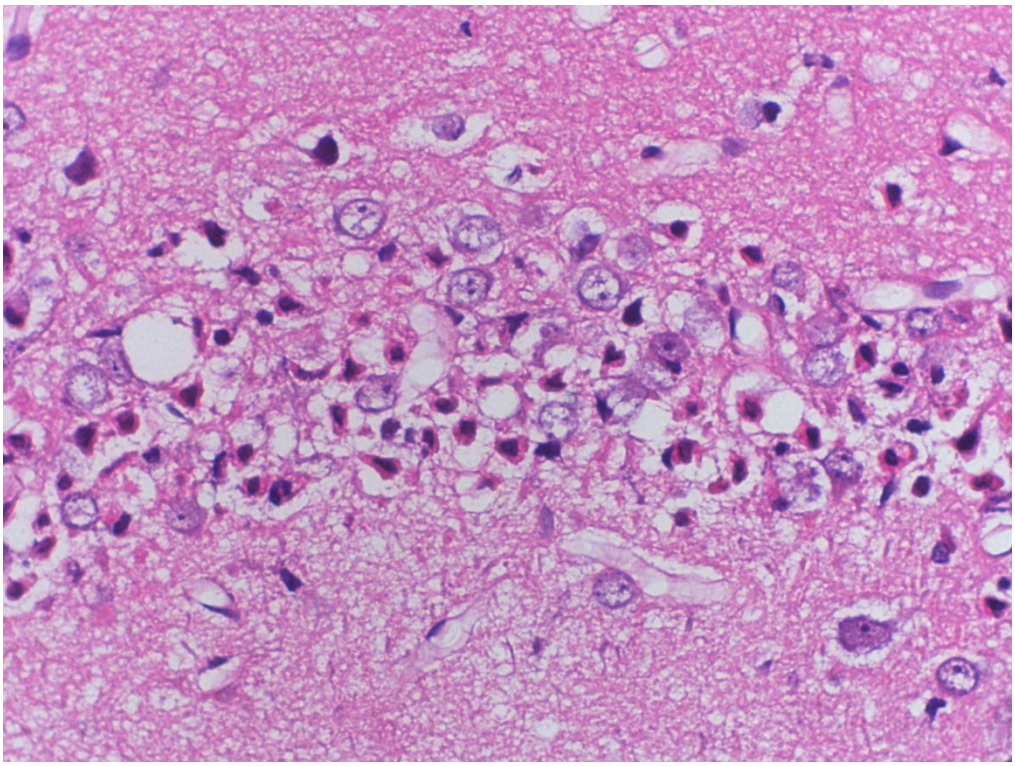
NNC_2



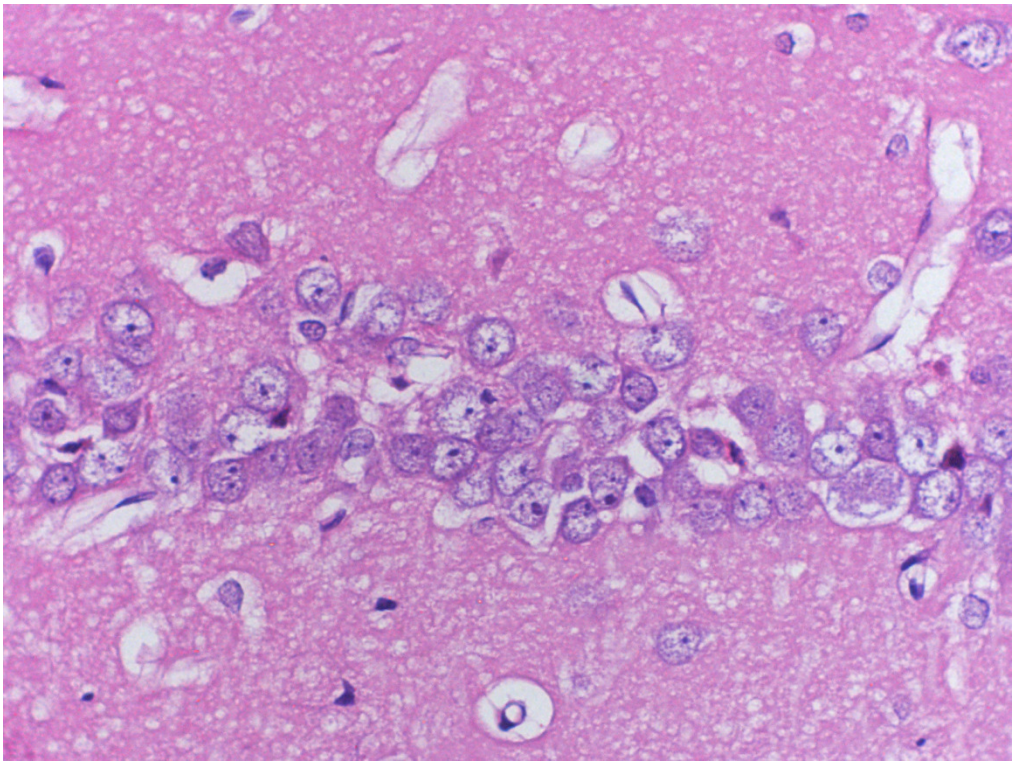
NNC_3



NNC_8

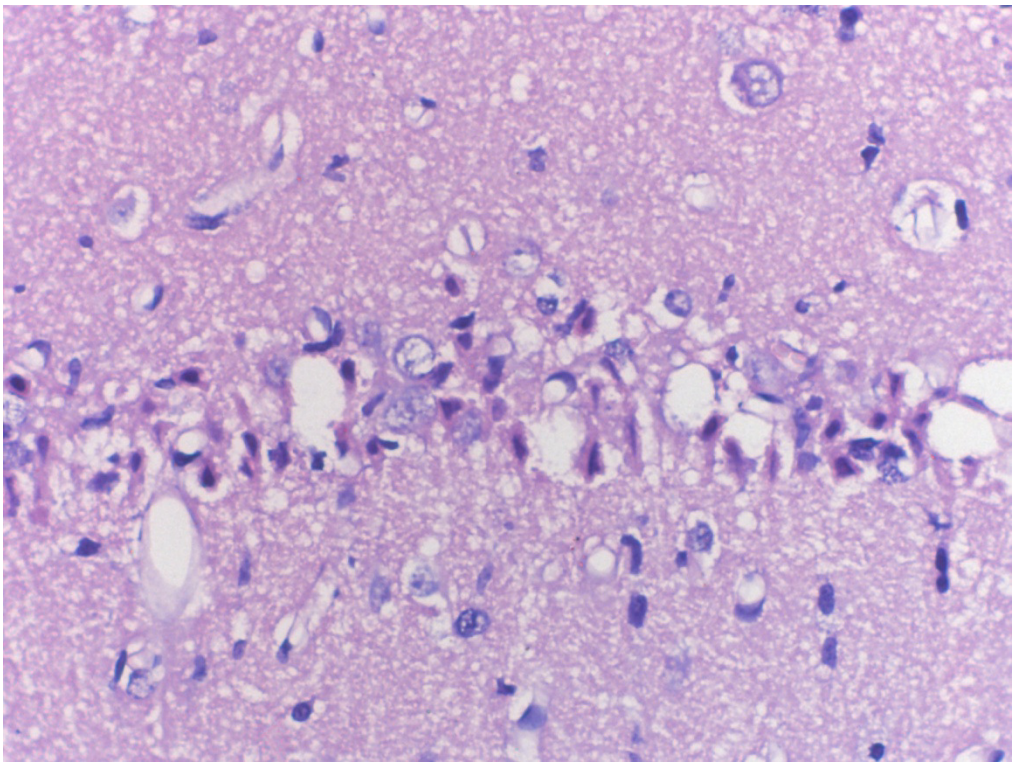


NNC_9

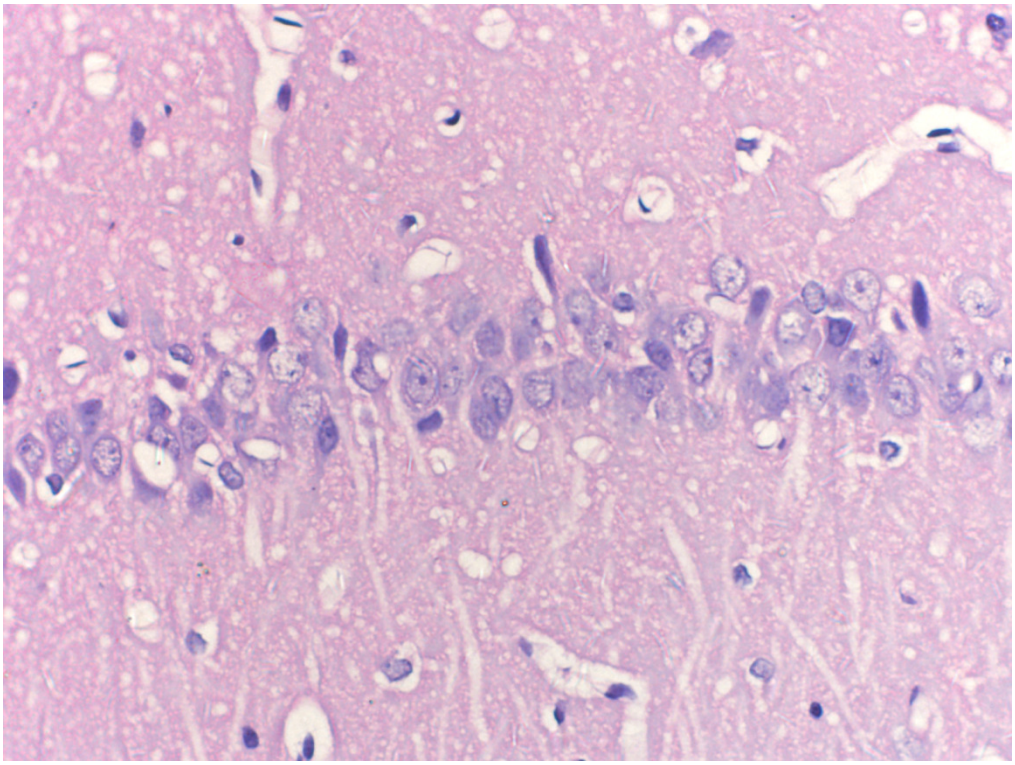


NNC_12

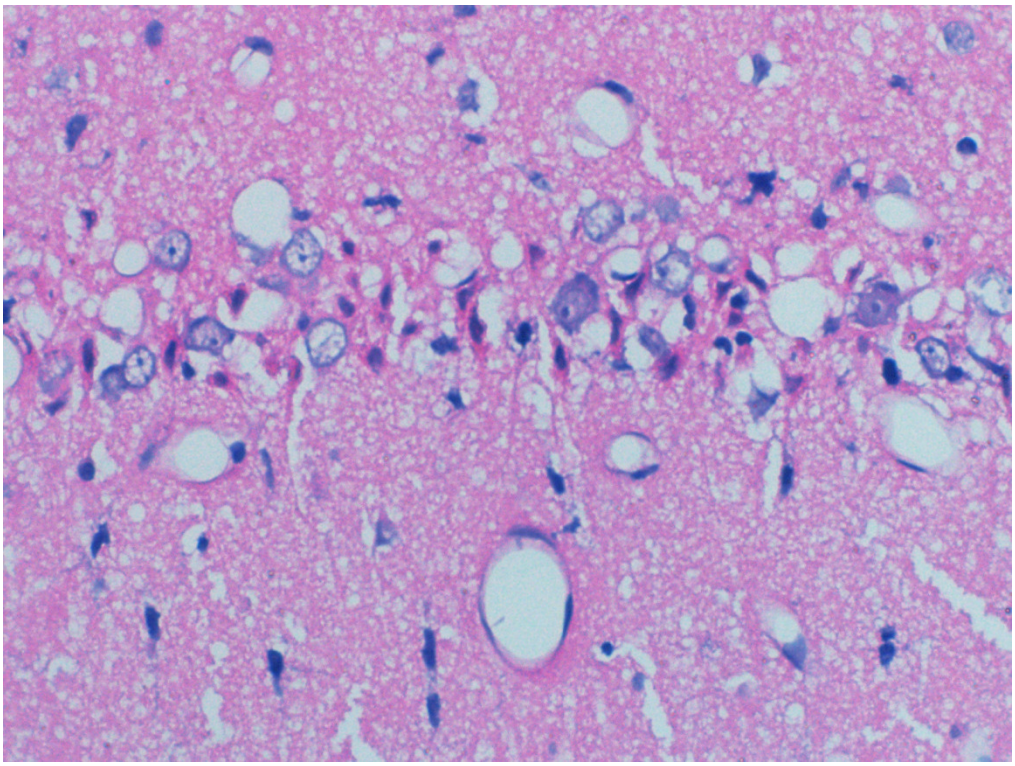
(B). ventilated with 100% oxygen for 0 (O_2_0h) hour group



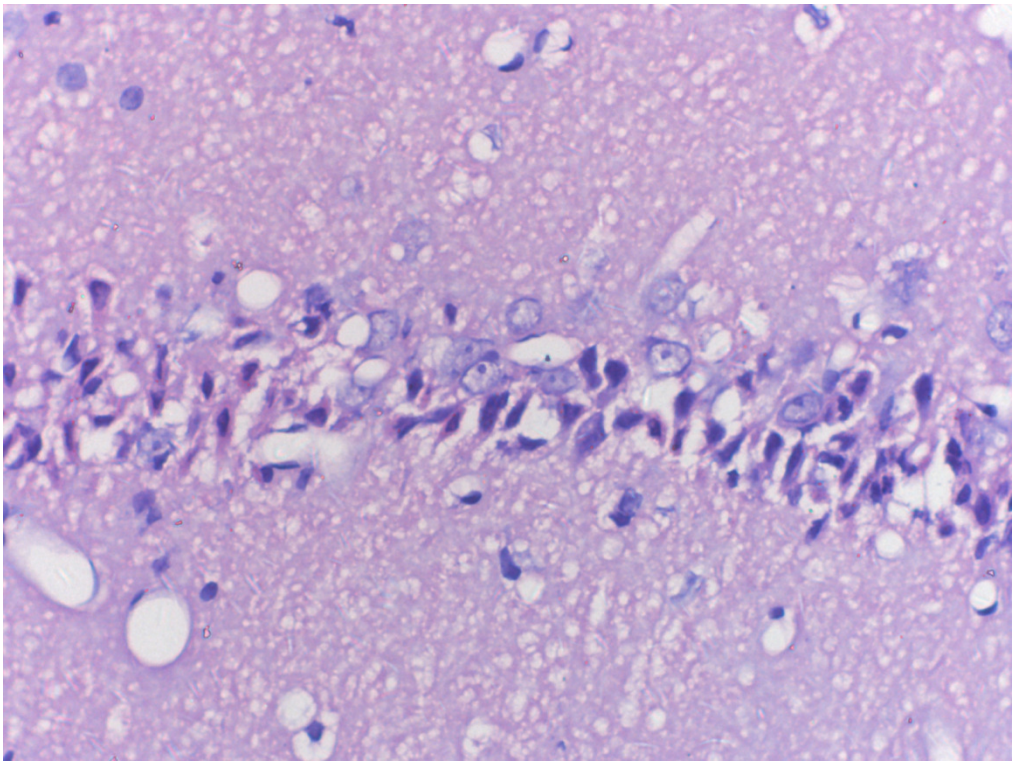
O2_0h_4



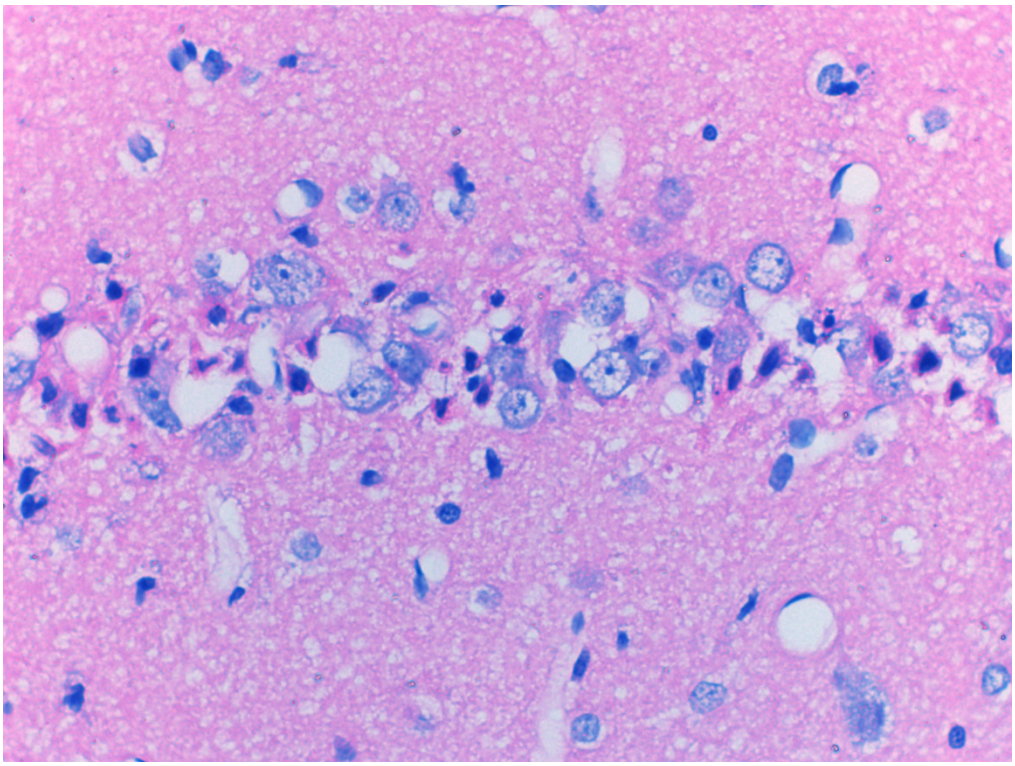
O2_0h_6



O2_0h_9

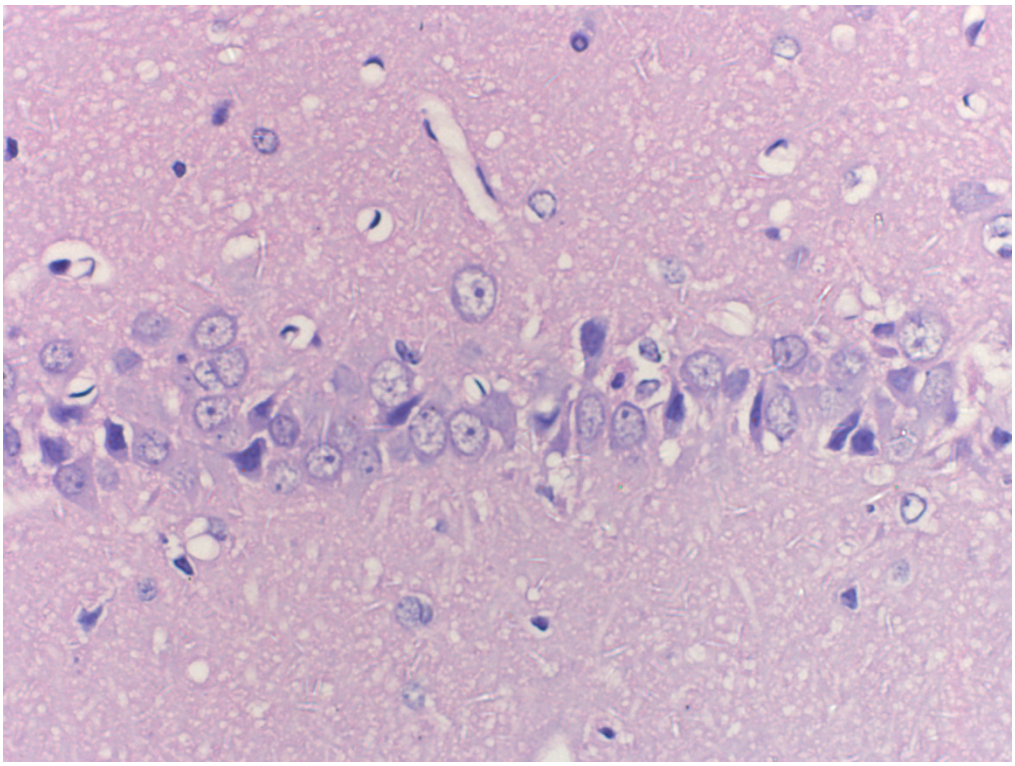


O2_0h_10

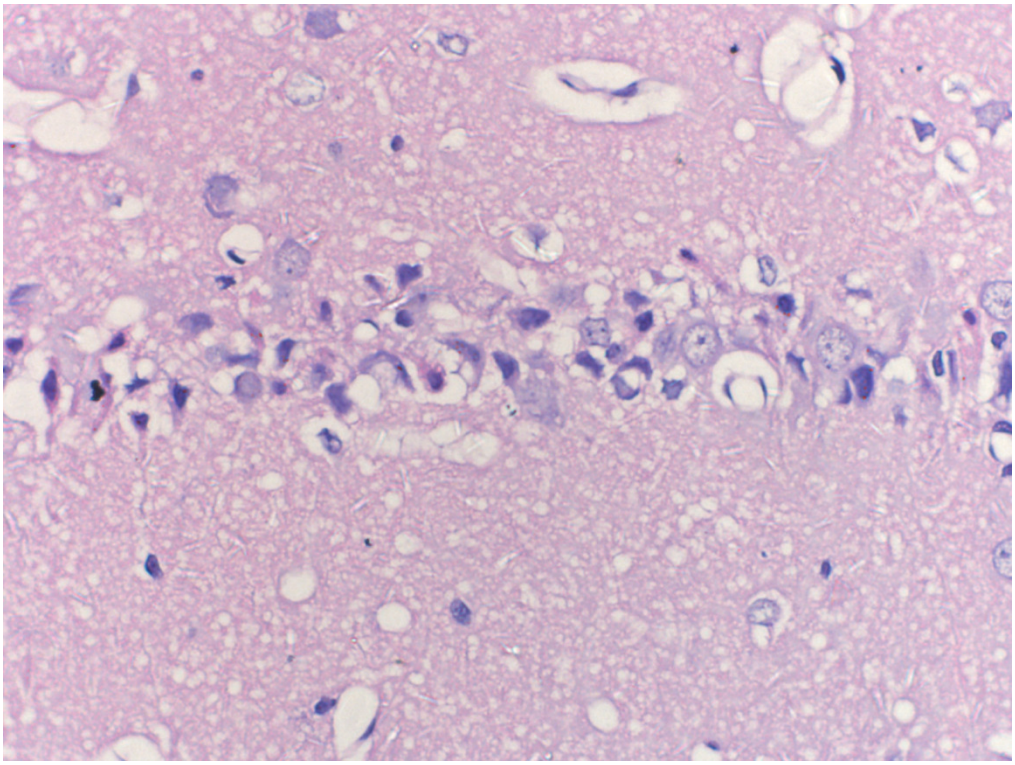


O2_0h_15

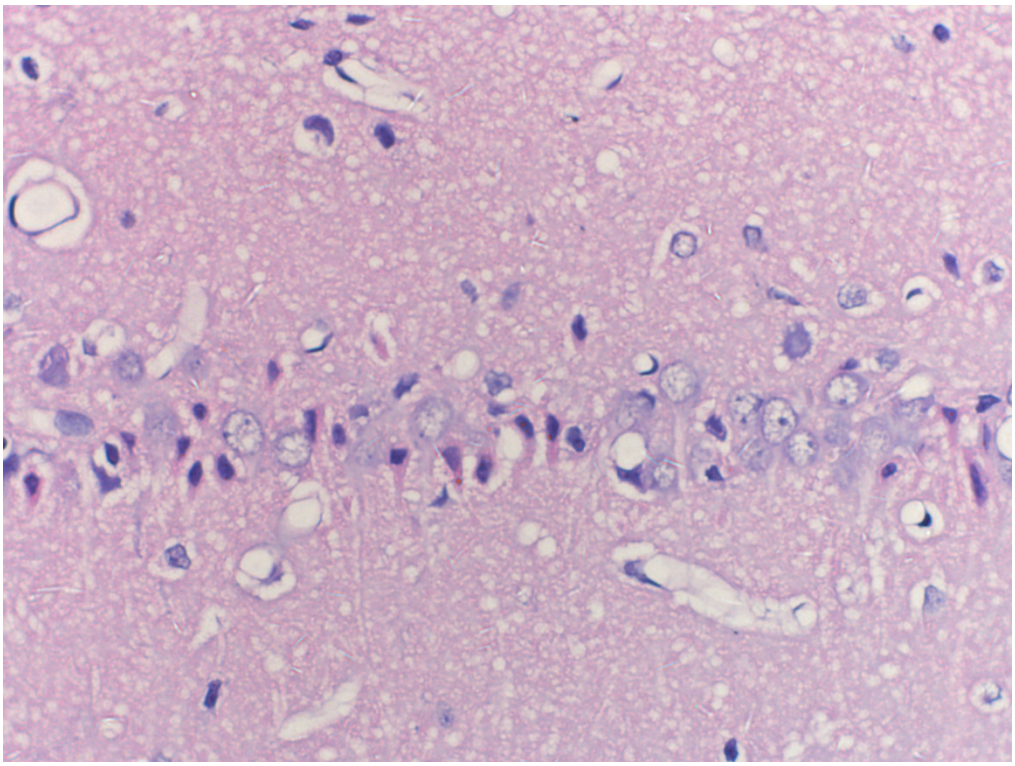
(C). ventilated with 100% oxygen for 1 (O_2_1h) hour group



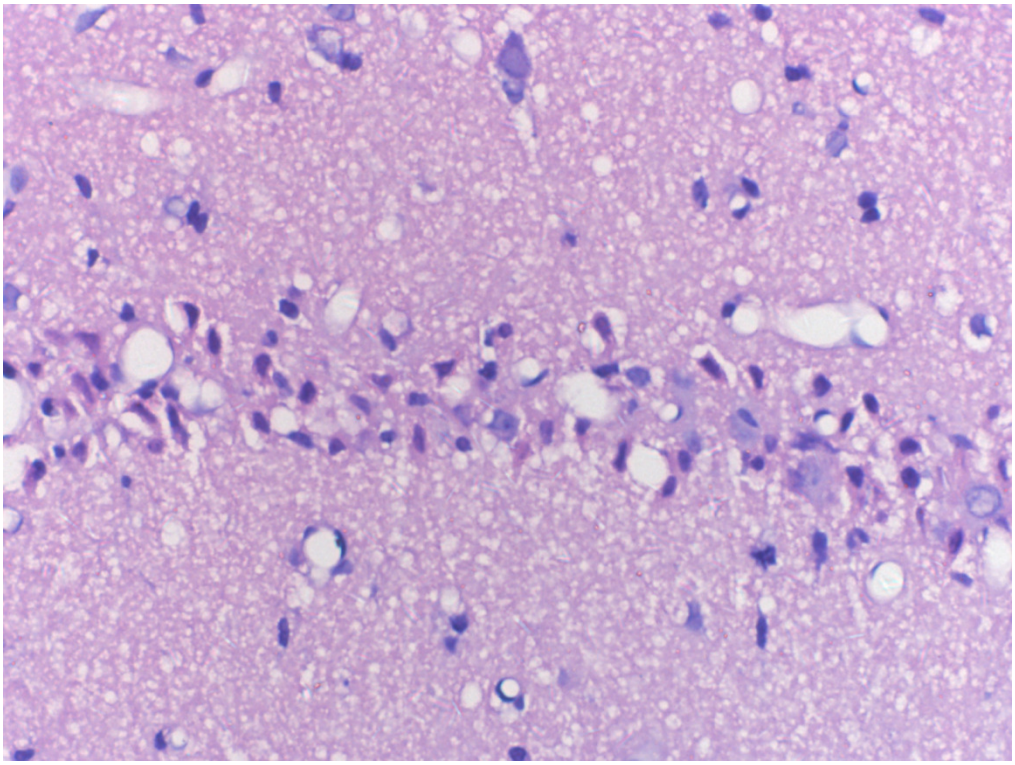
O2_1h_3



O2_1h_4

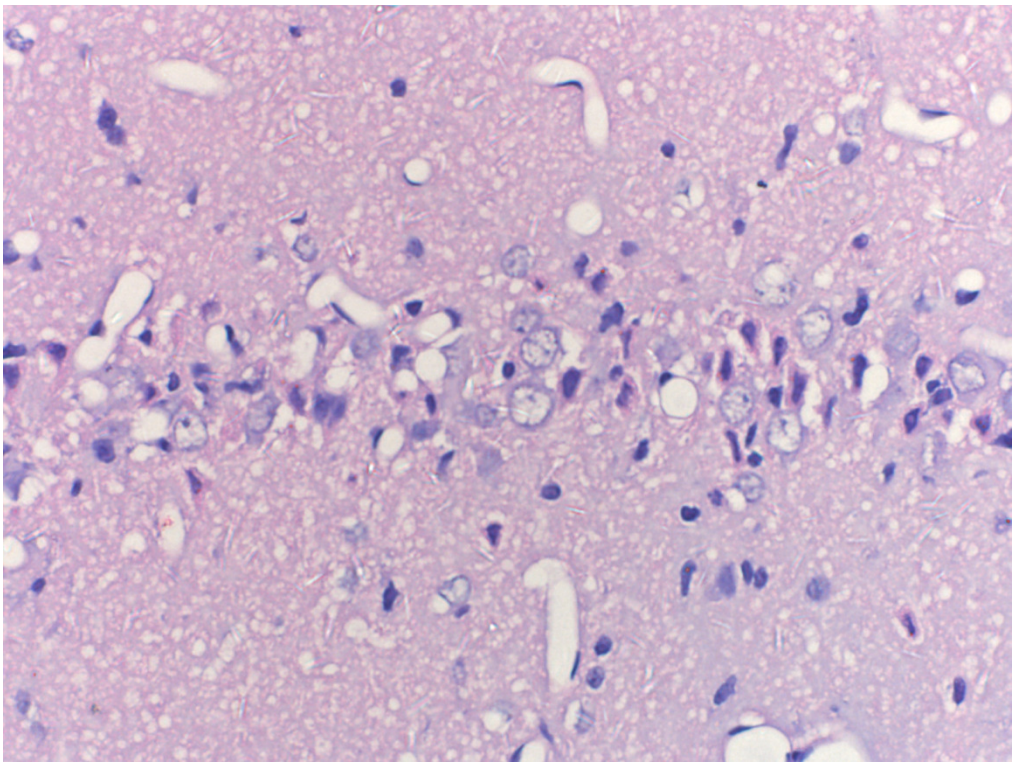


O2_1h_11

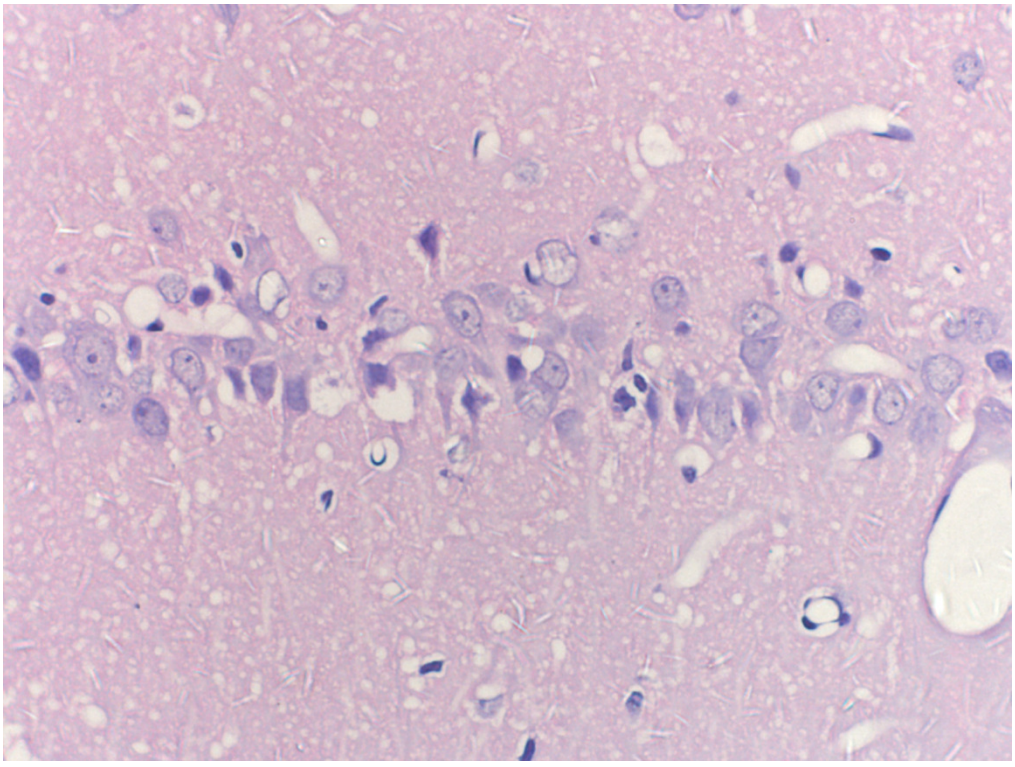


O2_1h_14

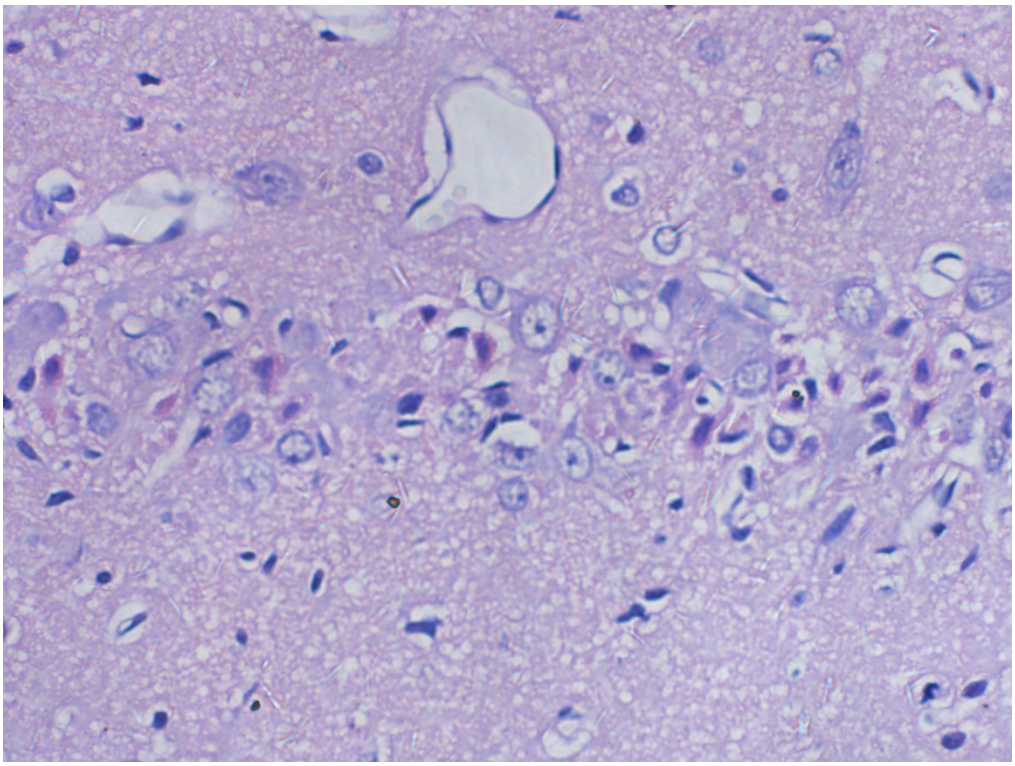
(D). ventilated with 100% oxygen for 3 (O_2_3h) hour group



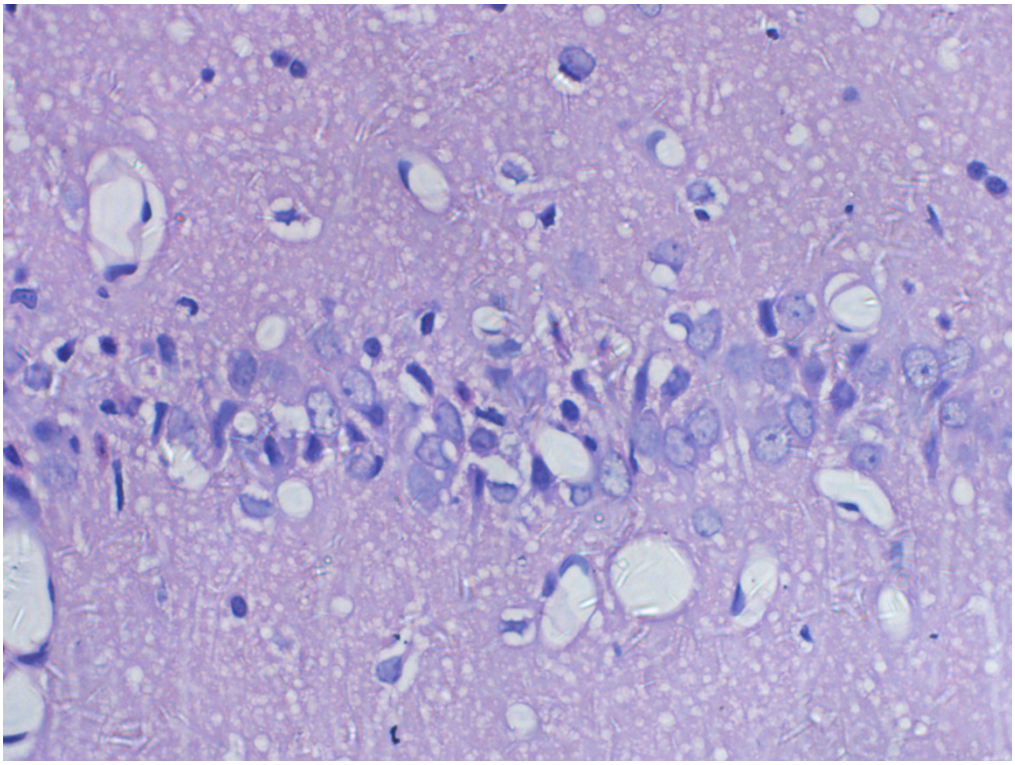
O_2_3h_1



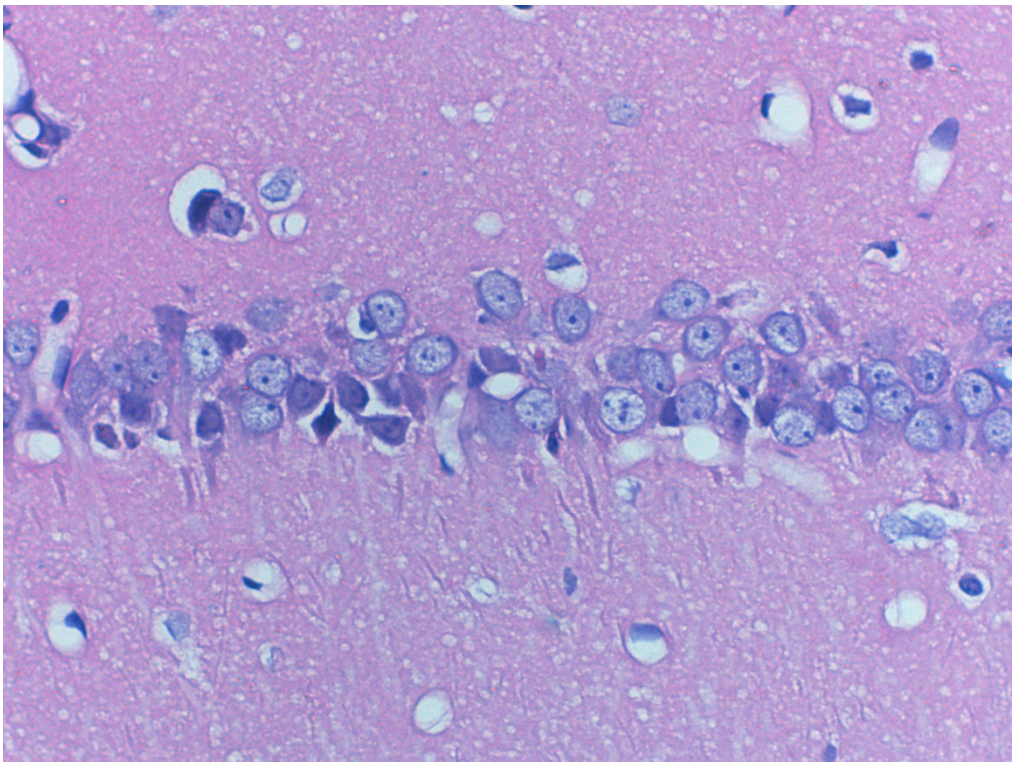
O_2_3h_2



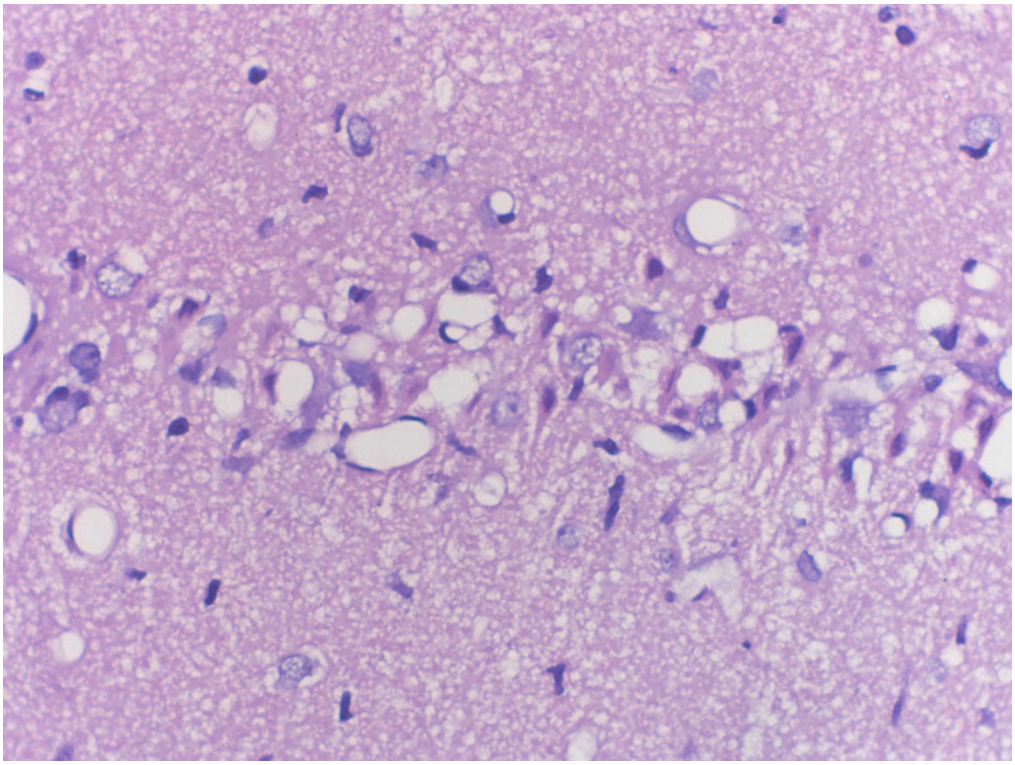
O_2_3h_5



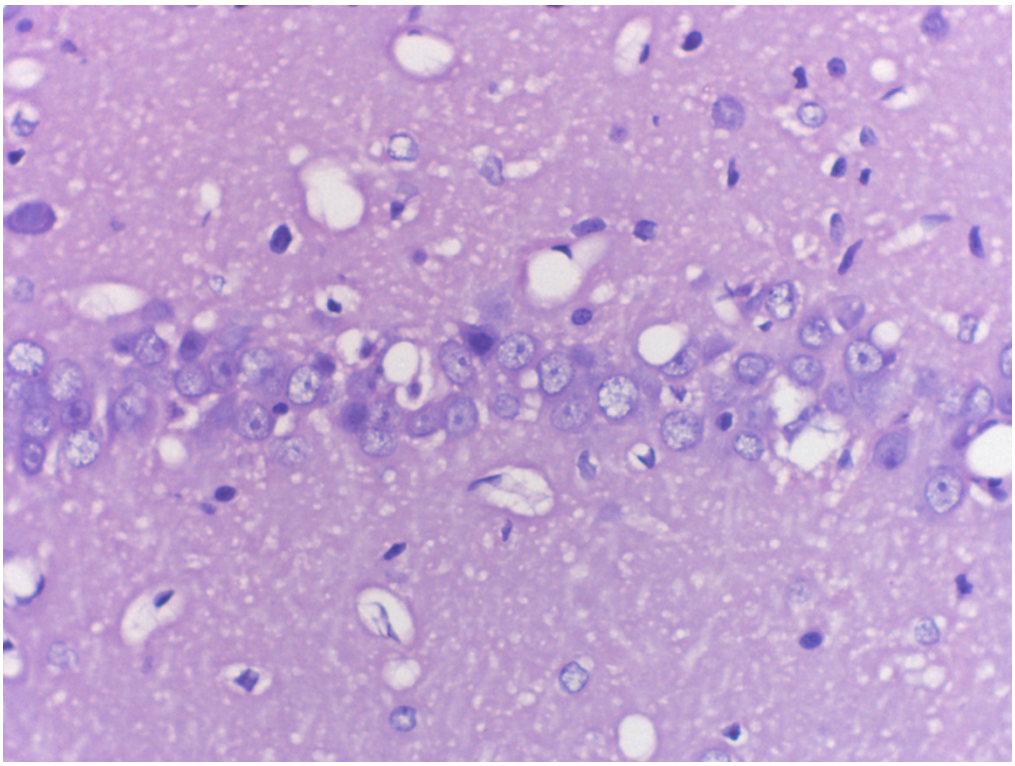
O_2_3h_6



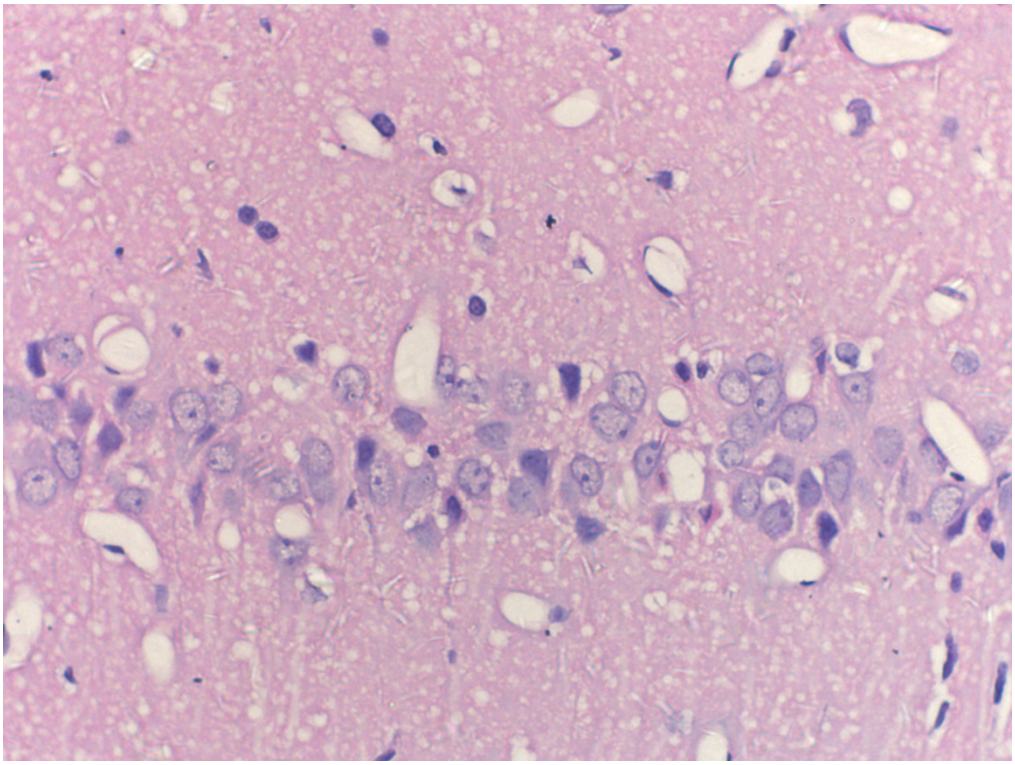
O_2_3h_7



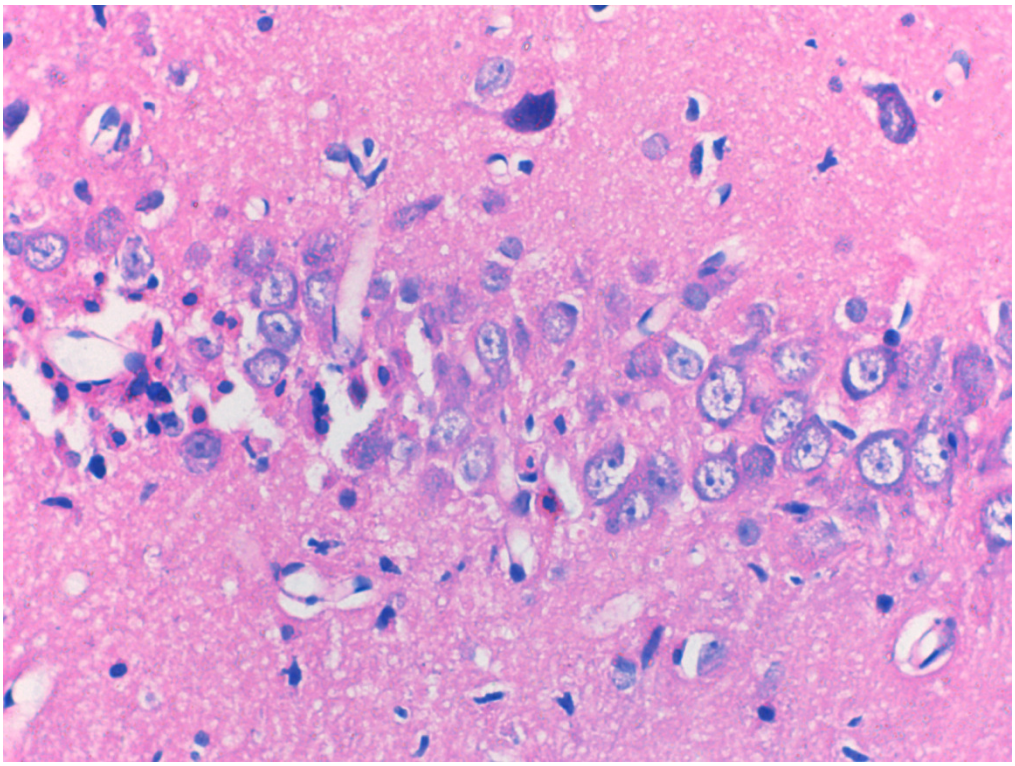
O_2_3h_9



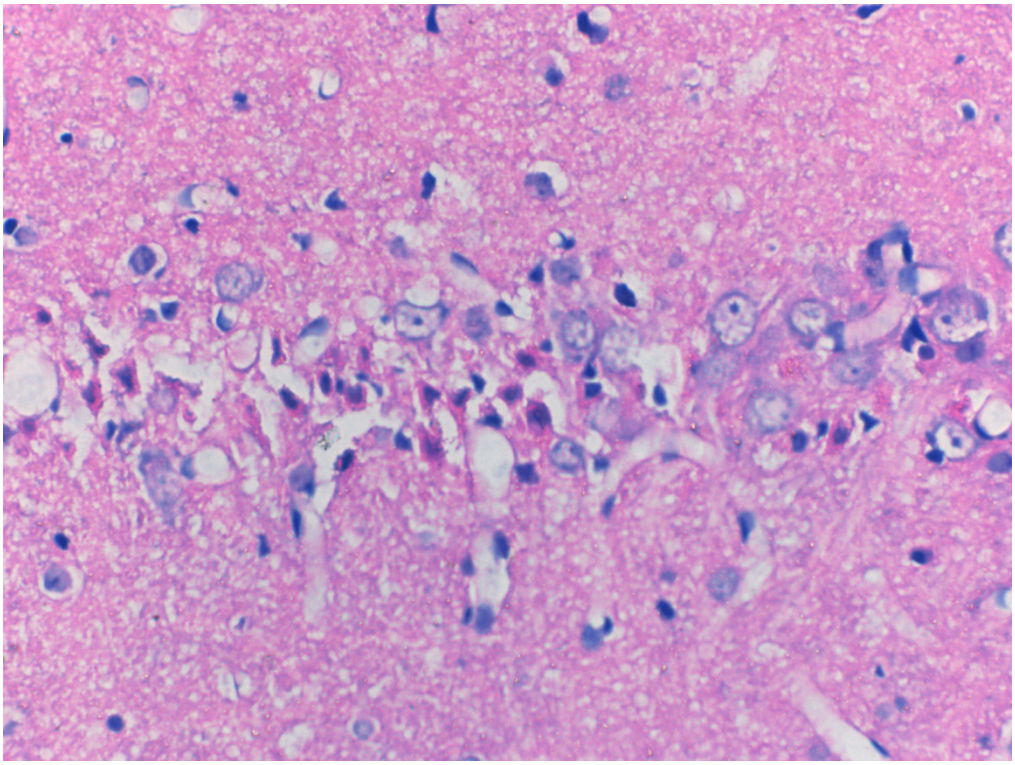
O_2_3h_11



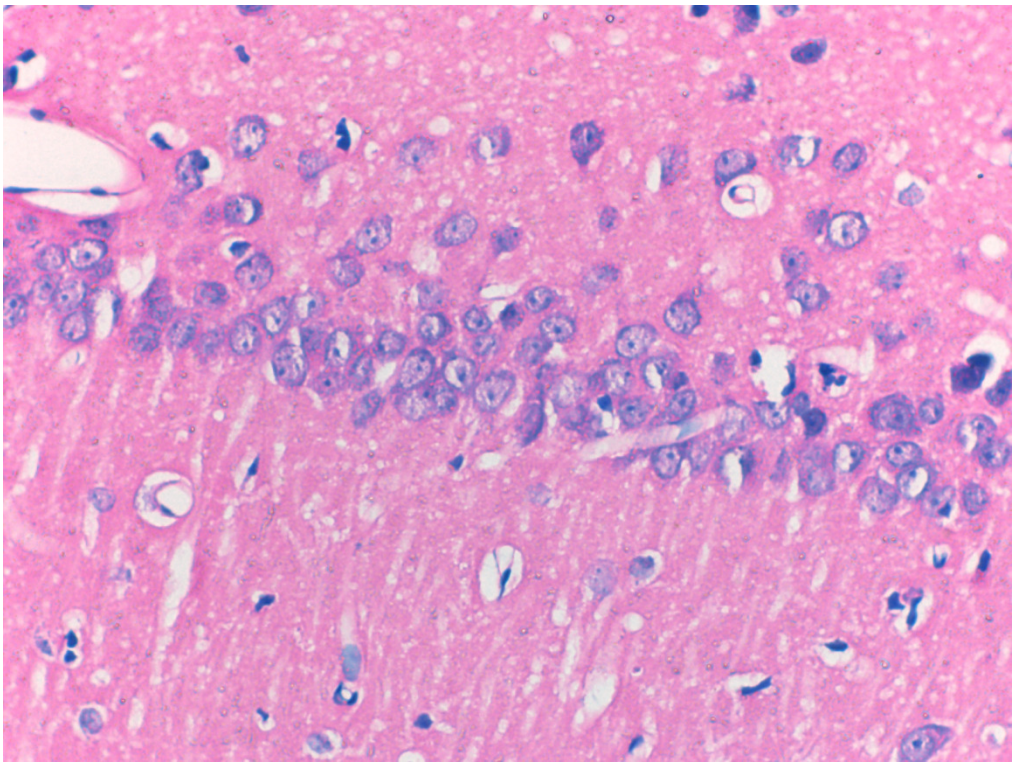
O_2_3h_12



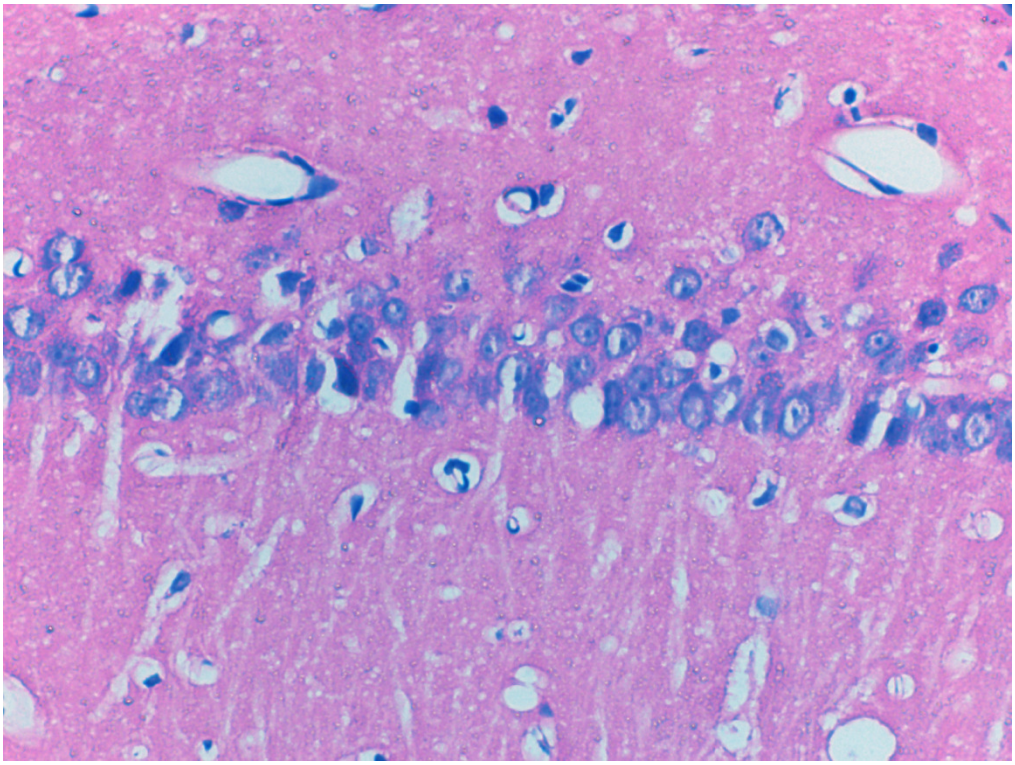
O_2_3h_13



O_2_3h_14

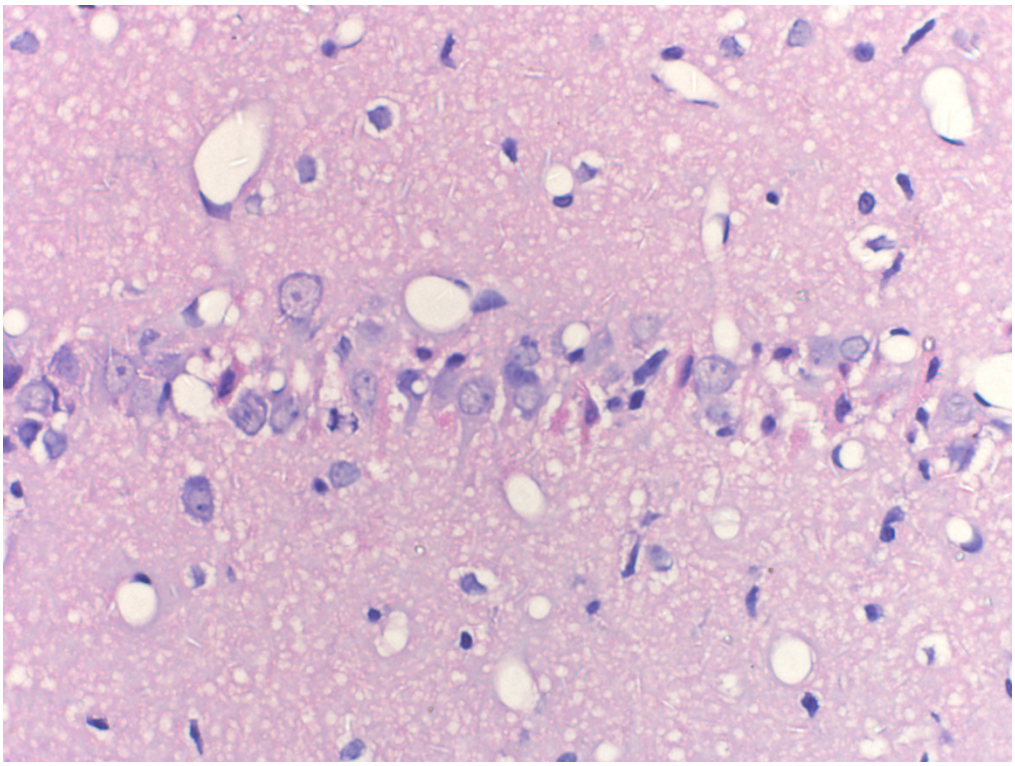


O_2_3h_15

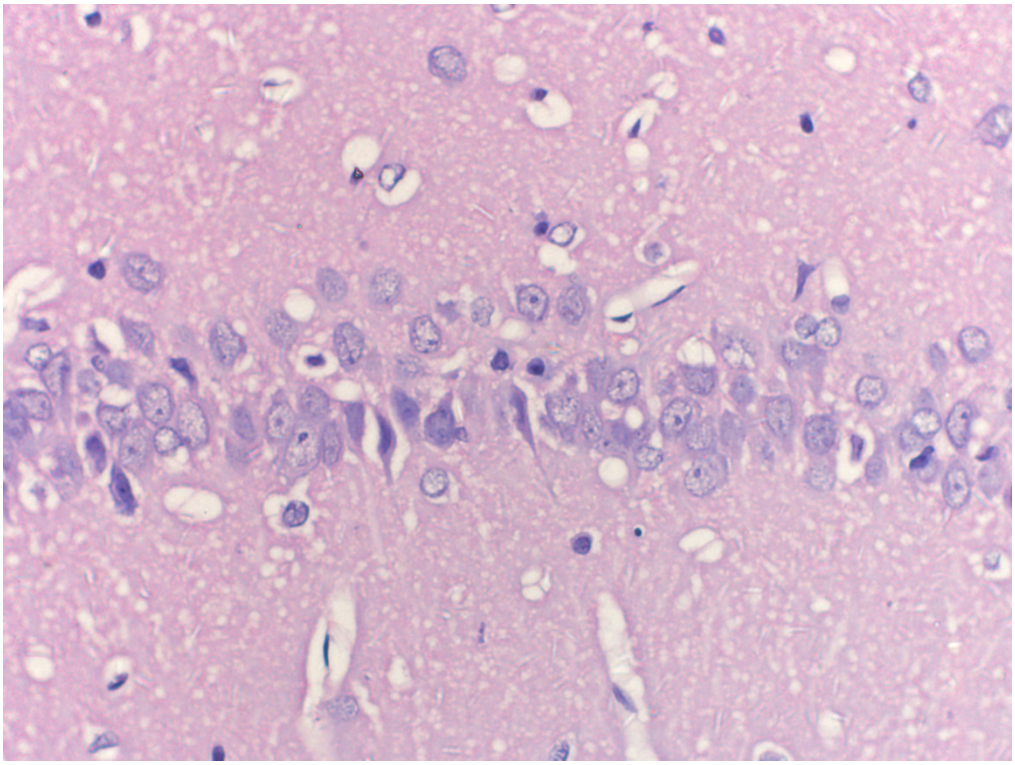


O_2_3h_16

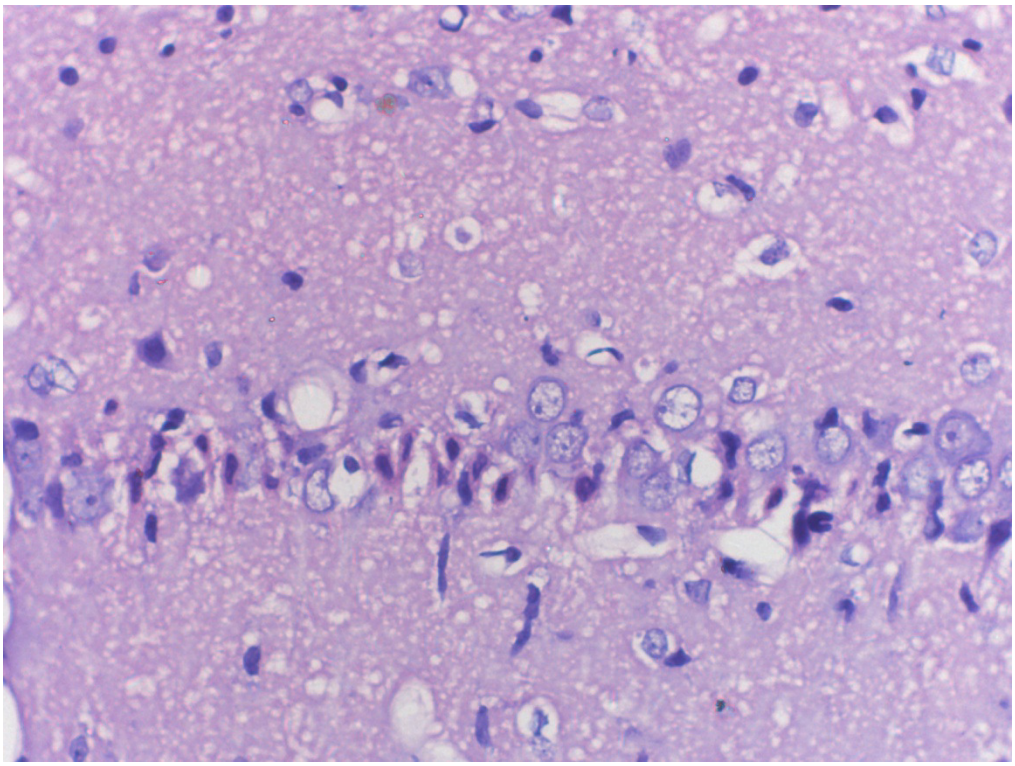
(E). ventilated with 100% oxygen for 5 (O_2_5h) hour group



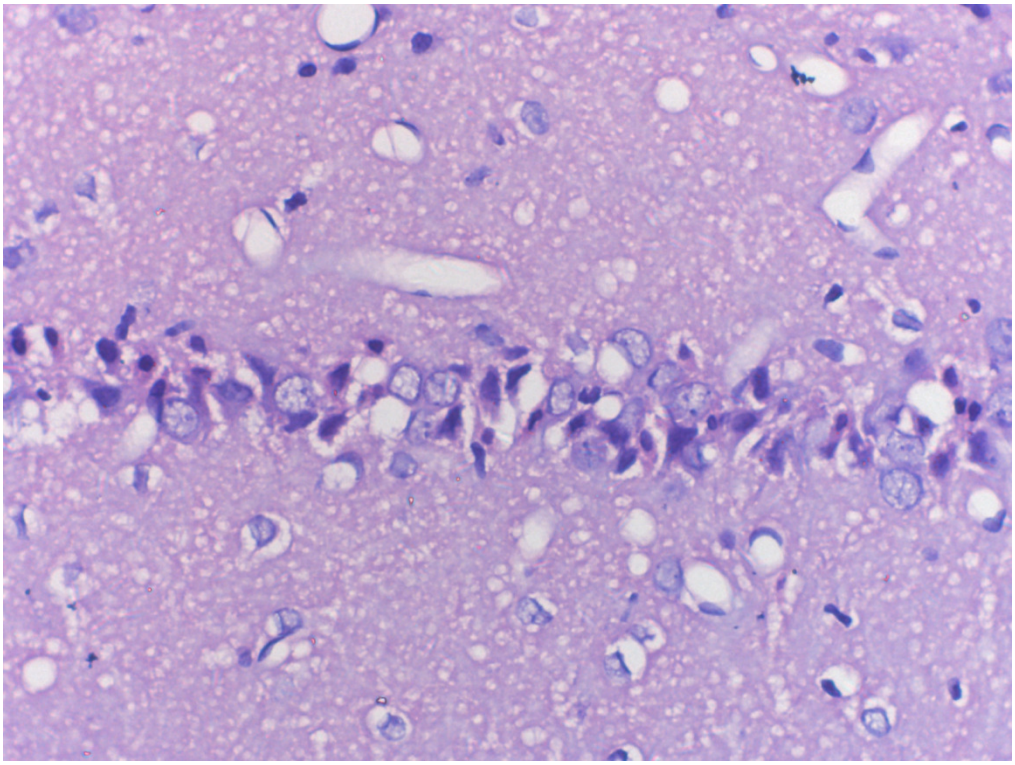
O_2_5h_2



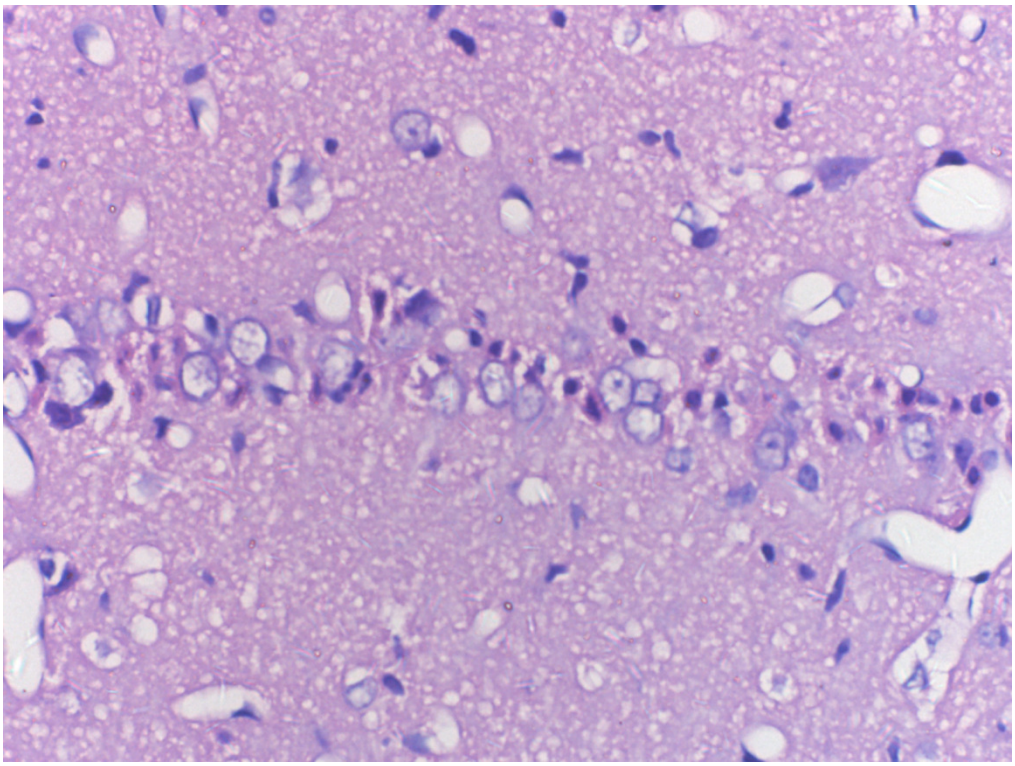
O_2_5h_4



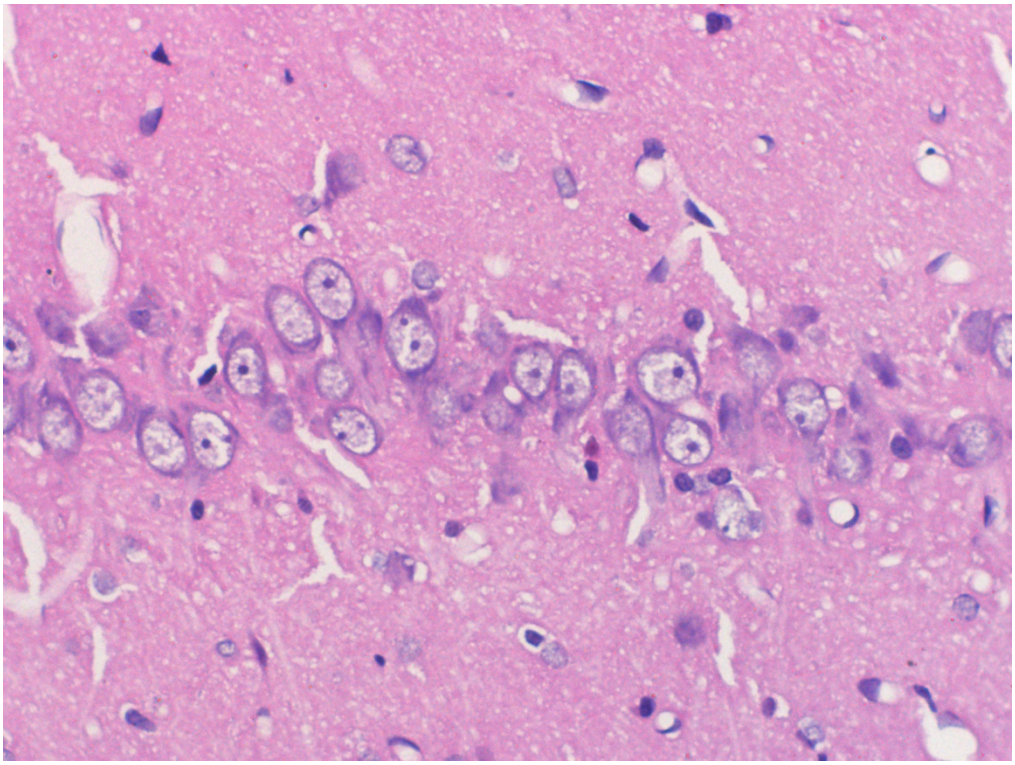
O_2_5h_6



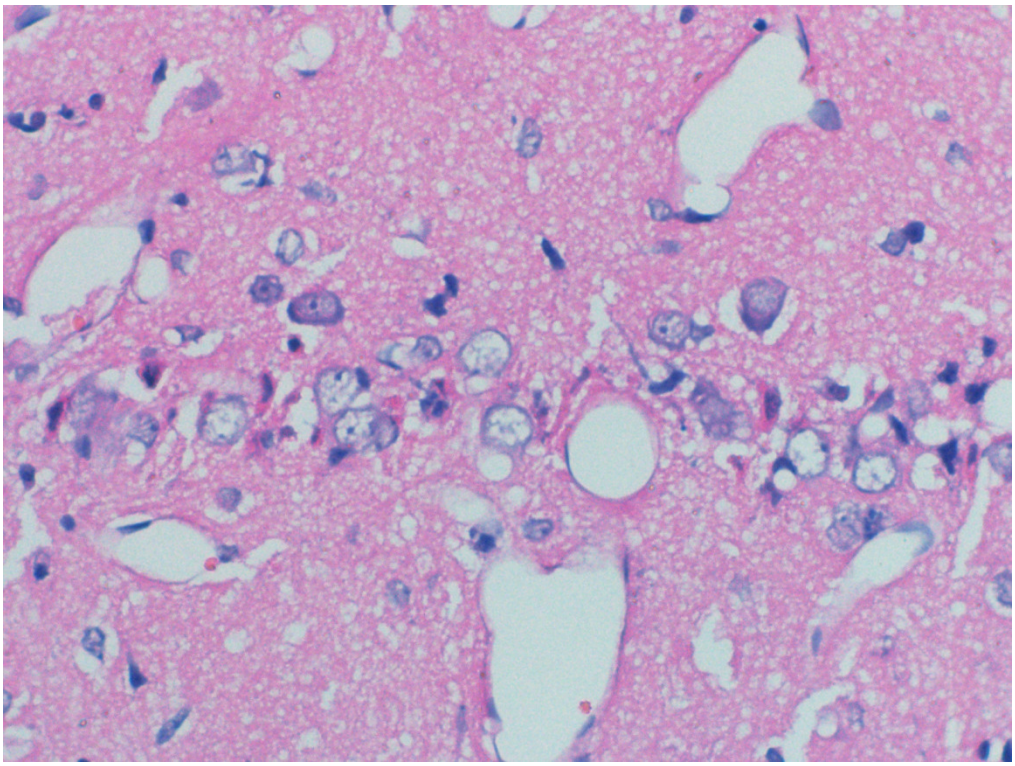
O_2_5h_10



O_2_5h_13



O_2_5h_14



O_2_5h_16