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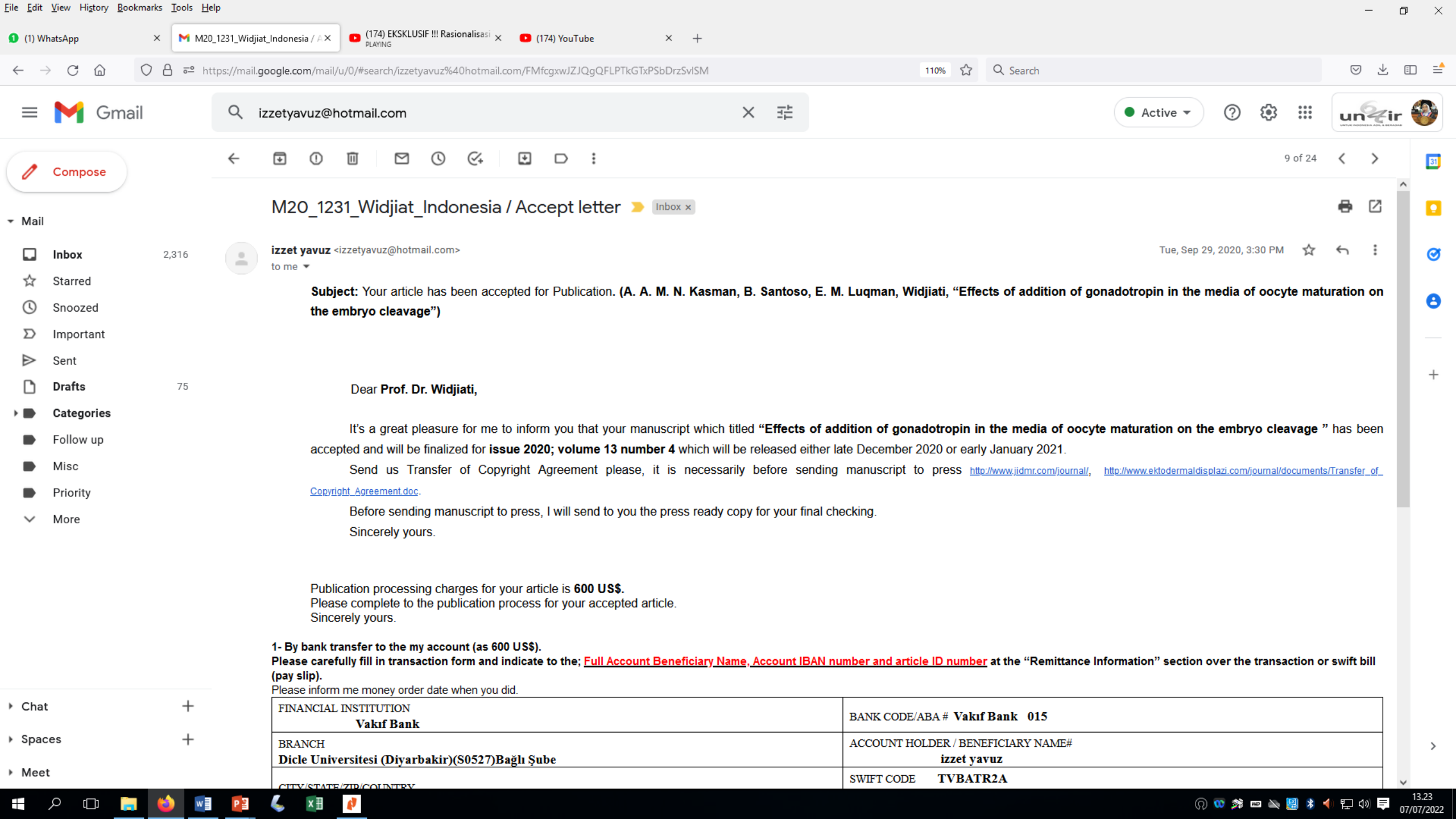
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Tue, Sep 29, 2020, 3:30 PM

Subject: Your article has been accepted for Publication. (A. A. M. N. Kasman, B. Santoso, E. M. Luqman, Widjiati, “Effects of addition of gonadotropin in the media of oocyte maturation on the embryo cleavage”)

Dear **Prof. Dr. Widjiati,**

It's a great pleasure for me to inform you that your manuscript which titled “**Effects of addition of gonadotropin in the media of oocyte maturation on the embryo cleavage**” has been accepted and will be finalized for **issue 2020; volume 13 number 4** which will be released either late December 2020 or early January 2021.

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Journal of International Dental and Medical Research ISSN 1309-100X Effects of Addition of Gonadotropin
<http://www.jidmr.com> A. A. M. N. Kasman and et al

Effects of Addition of Gonadotropin in the Media of Oocyte Maturation on the Embryo Cleavage

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Abstract

This research was performed to find the effects of addition of gonadotropin hormone in oocyte maturation in vitro on embryo cleavage. Gonadotropin hormone such as hMG 0,75 µg/ml and PMSG 15 IU were used in each oocyte maturation in vitro. Maturation media in this research was divided into 4 treatments such as Tc0, Tc+, Tc+hMG, and Tc+PMSG. Each treatment obtained 6 replicates. Oocyte maturation was carried out in each 100 µl TC 199 incubated for 24 hours. Staining of oocyte mature with aceto orcein and in vitro insemination were carried out in the middle of roset. The research result showed that the average percentage of mature oocyte after maturation was 16.67% in the Tc0, 30% in the Tc+, 80% in the Tc+hMG, and 83.33% in the Tc+PMSG. Percentage of cleavage embryo was 5% for Tc0, 11.67% for Tc+, 43.33% for Tc+hMG, and 46.67% for Tc+PMSG. The result of correlation test on mature oocyte and cleavage was 0.932, the result of ANOVA test showed a significant difference, and the result of LSD test showed that there was difference between treatment groups of Tc0 and Tc+ compared to treatment group of Tc+hMG and Tc+PMSG, in both maturation and cleavage. This research concluded that the addition of gonadotropin obtained from hMg and PMSG into oocyte maturation media affected the increase in mature oocyte percentage and cleavage, there was no different result between the addition of hMG and PMSG on the percentage of mature oocyte and cleavage, and there was a correlation of mature oocyte on cleavage.

Experimental article (J Int Dent Med Res 2021; 14(1): 00-00)

Keywords: Gonadotropin, oocyte, in vitro maturation, cleavage.

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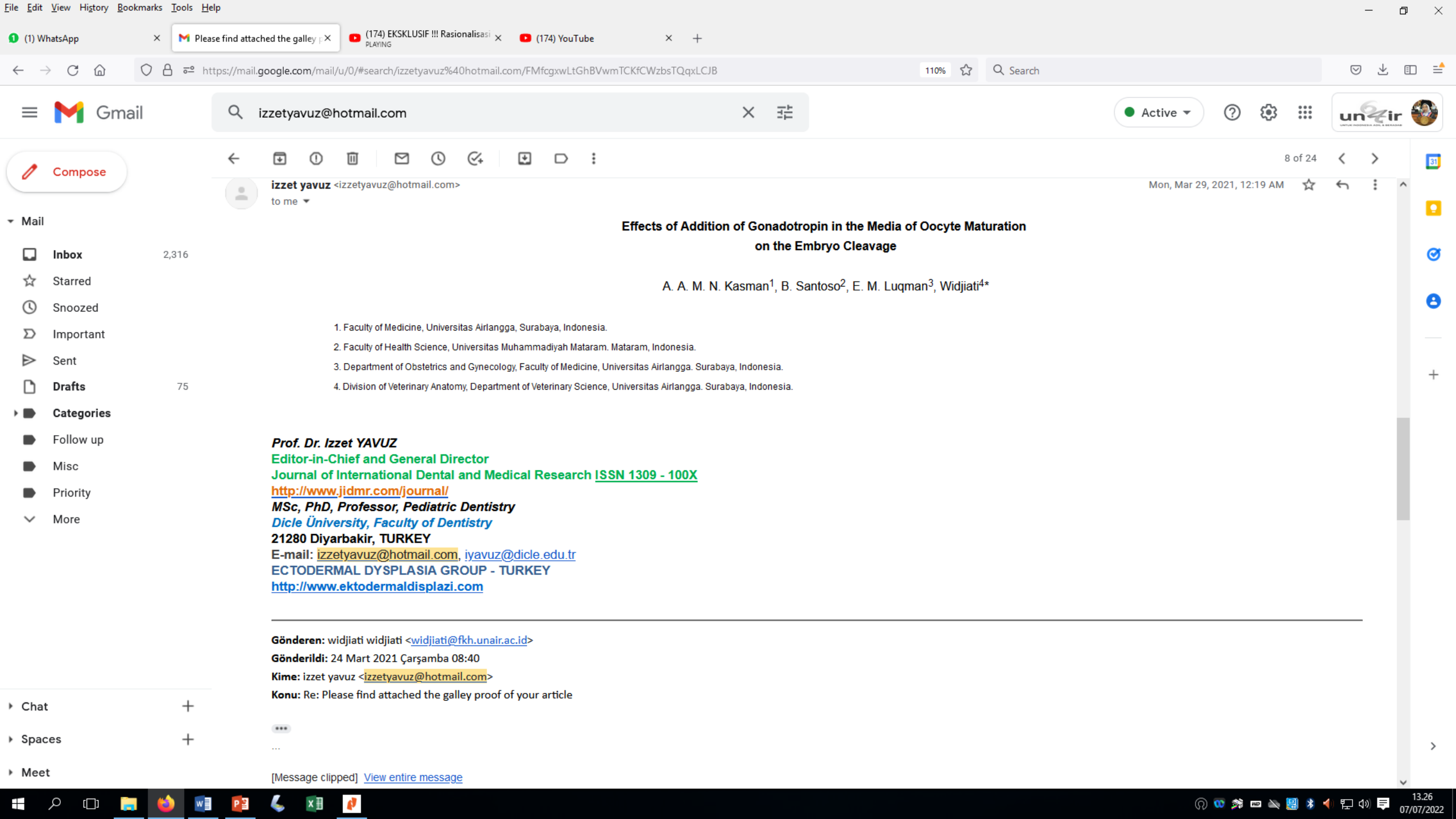
Introduction

The development of in vitro fertilization technique particularly relating to optimization of the use of reproductive organ as a source to obtain eggs and sperm cell has important role in improving embryo quality, which until today it is still being studied and developed. One related to in vitro fertilization is the process of maturation of oocytes in vitro which is one of stages in fertilization events to obtain quality embryo¹.

remove nutrient metabolite contained in the media needed for metabolism². The addition of hormone in the maturation media is needed for the development of oocytes to improve oocytes quality so that oocytes potential for fertilization and embryonic development can be improved³. Imperfect completion in the process of maturation in vitro leads to disruption in oocytes growth that certainly affects embryo development. The addition of hormone in the media of oocyte maturation in vitro is meant to improve the oocyte

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