

# Fruit Salad Activity

## to Improve Learning Outcome for Pharmacy Students

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## 1 Overview

Traditional teaching styles for pharmacy students are lecture based method. By using this teaching method, students generally get less knowledge from the classroom (~20%)<sup>1</sup> and they usually have to push hard efforts to review the lessons themselves. Sometimes, they need to be tutored to fulfill the missing knowledge. However, most of them still fail to get understanding of the whole content.

Fruit salad activity, commonly known as Jigsaw has just been effectively used to teach student. This technique allow students from individual small group to study different parts of lesson from other groups. This activity could help student to improve their problem solving skills, listening/communication skills and encouragement of cooperative learning<sup>2,3</sup>.

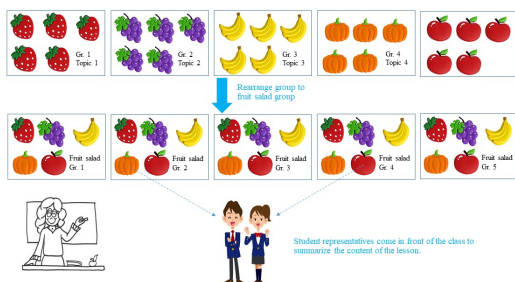
## 2 Aims and objectives

- To apply fruit salad technique as part of teaching and learning in the classroom for 2<sup>nd</sup>, 3<sup>rd</sup>, 4<sup>th</sup> and 5<sup>th</sup> years pharmacy students.
- To evaluate the effectiveness of fruit salad technique in helping the learning of students.

## 3 Activity

### Implementation

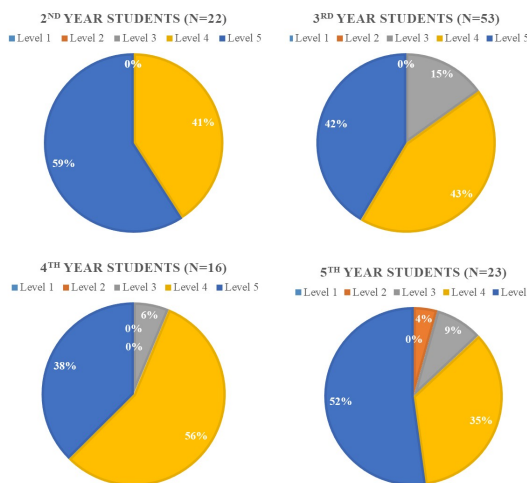
- Students were grouped according their student ID; each group contained similar number of member; and the number of groups was corresponded to the number of each group member.
- Each group received different fruit cards, and different topic for discussion. Teacher will be advisor of each group.
- The group was rearranged to contain different type of fruit cards.
- Each student in the new group shared their knowledge gained from former group.
- One or two representative students was randomized to conclude their lesson learnt in front of the class.



2<sup>nd</sup> year student: 28 class size; Lesson: Drug administration  
3<sup>rd</sup> year student: 54 class size; Lesson: Sample preparation for pharm. analysis  
4<sup>th</sup> year student: 45 class size; Lesson: Bioavailability and bioequivalence  
5<sup>th</sup> year student: 24 class size; Lesson: Good laboratory practice

## 4 Outcome

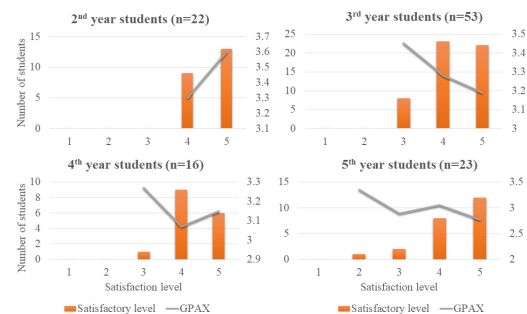
How fruit salad activity improve students learning outcome.



- Feel Fun 😄
- Get more understanding
- Share idea with friends
- Analyze knowledge
- Get critical thinking skill

- Need more time 😞
- Have to prepare themselves

### Satisfaction level vs GPAX



Satisfaction level is inversely proportional to academic performance. Students with low GPAX tend to like and believe that fruit salad activity would improve their learning outcome.

## 5 Impact

- Students know how to process knowledge and transfer knowledge to others.
- This technique could improve students' engagement, analytical and critical thinking processes.

## 6 Future development

Academic performance of student will be taken into account for grouping and also for assigning the task. This would provide students, who have high academic performance, a chance to work with challenged task.

## 7 References

- Khoshnevisasl et al. Iran Red Crescent Med J. 2014 May; 16(5): e5186.
- Wilson et al. Curr Pharm Teach Learn. 2017 Nov;9(6):1151-1159.
- Phillips et al. Am J Pharm Educ. 2015 Aug 25; 79(6): 90.