

INNOVATIVE EDUCATION: The "Flipped classroom" or "upside down classroom".

In addition to the ex-cathedra lessons, which are always interactive, some "flipped classroom" have been performed within the course of Histology and Medical Embryology in the second semester of the first year of the course.

For this purpose the students were divided into GROUPS.

Each group was first told how to make a presentation and sent a file .ppt tutorial.

The "flipped classroom" was carried out after preparation and at the end of the course in order to have knowledge of basic preparation. Thus, 4 (Four) were chosen a week in advance topics (one of Histology, 1 common to Histology and Embryology and two to Embryology) and each of the 4 topics assigned to 2 groups so that they were presented according to points of view opposite or with different cut / vision (positive / negative aspects, use for Man / difficulty to use in clinical practice, ethical issues / overcoming ethical problems).

The topics were chosen based on the interest, the novelty in scientific literature, of relevance and interdisciplinarity with always "medical" vision, to which the students have been prepared throughout the semester.

Each group, with a week's notice, received from the teachers the material to start with study the topic and indications on how to find other literature / images.

Each working group has designated from 2 to 5 students as "speaker".

Each presentation lasted between 1 hour and 1 hour and 30 minutes.

At the end of each presentation the debate opened with the intervention of all the groups.

At the end of all the presentations (last day) the groups were invited to designate what they had, in their opinion, presented the subject in the most correct, complete and incisive way.

The perception of this teaching method was enthusiastic, the students participated

not only actively and personally, but have shown a considerable degree of autonomy and of critical spirit, always presenting each topic in a personal but always correct way, with very good level of communication, sometimes excellent.

Questions, even critical ones, have always responded adequately and suggestions for further reflections have been manifold.