



ChemTech

## International Journal of ChemTech Research

CODEN (USA): IJCRGG, ISSN: 0974-4290, ISSN(Online):2455-9555  
Vol.11 No.09, pp 393-398, 2018

### Using of Polyester P45 Plastinated Sheet specimens in Teaching Anatomy, Pathology and Radiology Courses

Raed Ogaili<sup>1\*</sup>, Sameem S.M.Baker<sup>2</sup> and Hong-Jin Sui<sup>3</sup>

<sup>1</sup>College Of Dentistry, University Of Kerbala, Iraq.

<sup>2</sup>Department Of Dentistry, Ibn Hayyan University College, Iraq.

<sup>3</sup>Department of Anatomy, Dalian Medical University, Dalian, China.

Phone: (+964)7732340397

**Abstract** : Introduction: This study was conducted at Dalian Hoffen Biotechniques laboratories in China for one month period to prepare P45 plastinated sheet specimens. The purpose of this study was to assess the student's satisfaction on use of P45 sheet plastinated slices in teaching of Anatomy, Pathology, and Radiology. Methods: The Hoffen polyester P45 procedure that includes (fixation, dehydration, forced impregnation, and curing) was the technique that depends on this study. The produces plastinated samples were assessed by 120 students from Kerbala University in Iraq. Results: The resulted samples showed that the P45 sheet plastinated specimens were clear, dry, odorless, durable, easy to handle and there was no health hazard associated with their uses. 113 of 120 student's rated high satisfaction of using P45 sheet plastinated specimens. The high benefits come from using of P45 plastinated sheet specimens in Anatomy comparing with Pathology and Radiology courses. Discussion: Among of many studies that discuss using of polymers P35, P40, and P45 in plastinated sheet models. The P45 plastination technique has advantages (safety, costly, requires less space in casting chamber, and short time-consuming) in compression with P40 and P35. There is no report that mentions any negative impression from using P45 plastinated sheet samples. In conclusion, P45 Sheet plastination prepared by the Dalian Hoffen technique is a wonderful resource for study of gross anatomy, cross-sectional anatomy, pathology, and radiology.

**Keywords:** Cross section, Plastination technique, Polyester, P45, Teaching anatomy.

Raed Ogaili *et al* /International Journal of ChemTech Research, 2018,11(09): 393-398.

DOI= <http://dx.doi.org/10.20902/IJCTR.2018.110945>

\*\*\*\*\*