

# 1944

see [1943](#) - [1945](#)

[Journal of Neurosurgery](#) 1944

---

The PLIF [procedure](#) was first described in [1944](#) by Briggs and Milligan <sup>1)</sup> who used laminectomy bone chips in the disc space as interbody graft. In [1946](#), Jaslow <sup>2)</sup> modified the technique by positioning an excised portion of the spinous process within the intervertebral space. It was not until [1953](#) when Cloward <sup>3)</sup> described his technique, which used impacted blocks of iliac crest autograft that the popularity of PLIF surgery increased. Although technically more difficult than posterolateral fusion techniques (i.e., intertransverse fusion in which bone graft spans between the transverse processes), the PLIF [procedure](#) was found to have the advantage of substantially increased fusion rates, often in excess of 85%. Despite the increased fusion rate, this technique was fraught with complications related to blood loss, dural/neural injury, graft extrusion, and arachnoiditis <sup>4)</sup>.

## Publications

Bailey OT, Ingraham FD. CHEMICAL, CLINICAL, AND IMMUNOLOGICAL STUDIES ON THE PRODUCTS OF HUMAN PLASMA FRACTIONATION. XXII. FIBRIN FILMS IN NEUROSURGERY, WITH SPECIAL REFERENCE TO THEIR USE IN THE REPAIR OF DURAL DEFECTS AND IN THE PREVENTION OF MENINGOCEREBRAL ADHESIONS. J Clin Invest. 1944 Jul;23(4):597-600. PubMed PMID: 16695140; PubMed Central PMCID: PMC435378.

Bailey OT, Ingraham FD. CHEMICAL, CLINICAL, AND IMMUNOLOGICAL STUDIES ON THE PRODUCTS OF HUMAN PLASMA FRACTIONATION. XXI. THE USE OF FIBRIN FOAM AS A HEMOSTATIC AGENT IN NEUROSURGERY: CLINICAL AND PATHOLOGICAL STUDIES. J Clin Invest. 1944 Jul;23(4):591-6. PubMed PMID: 16695139; PubMed Central PMCID: PMC435377.

JENTZER A. [Not Available]. Confin Neurol. 1944-1945;6(5):257-69. Undetermined Language. PubMed PMID: 21013997.

<sup>1)</sup>

Briggs H, Milligan P. Chip fusion of the low back following exploration of the spinal canal. J Bone Joint Surg. 1944;26:125-130.

<sup>2)</sup>

JASLOW IA. Intercorporeal bone graft in spinal fusion after disc removal. Surg Gynecol Obstet. 1946 Feb;82:215-8. PubMed PMID: 21011710.

<sup>3)</sup>

CLOWARD RB. The treatment of ruptured lumbar intervertebral discs by vertebral body fusion. I. Indications, operative technique, after care. J Neurosurg. 1953 Mar;10(2):154-68. PubMed PMID: 13035484.

<sup>4)</sup>

Cole CD, McCall TD, Schmidt MH, Dailey AT. Comparison of low back fusion techniques: transforaminal lumbar interbody fusion (TLIF) or posterior lumbar interbody fusion (PLIF) approaches. Curr Rev Musculoskelet Med. 2009 Jun;2(2):118-26. doi: 10.1007/s12178-009-9053-8. Epub 2009 Apr 29. PubMed PMID: 19468868; PubMed Central PMCID: PMC2697340.

From:

<https://neurosurgerywiki.com/wiki/> - **Neurosurgery Wiki**

Permanent link:

<https://neurosurgerywiki.com/wiki/doku.php?id=1944>

Last update: **2025/06/20 09:47**

