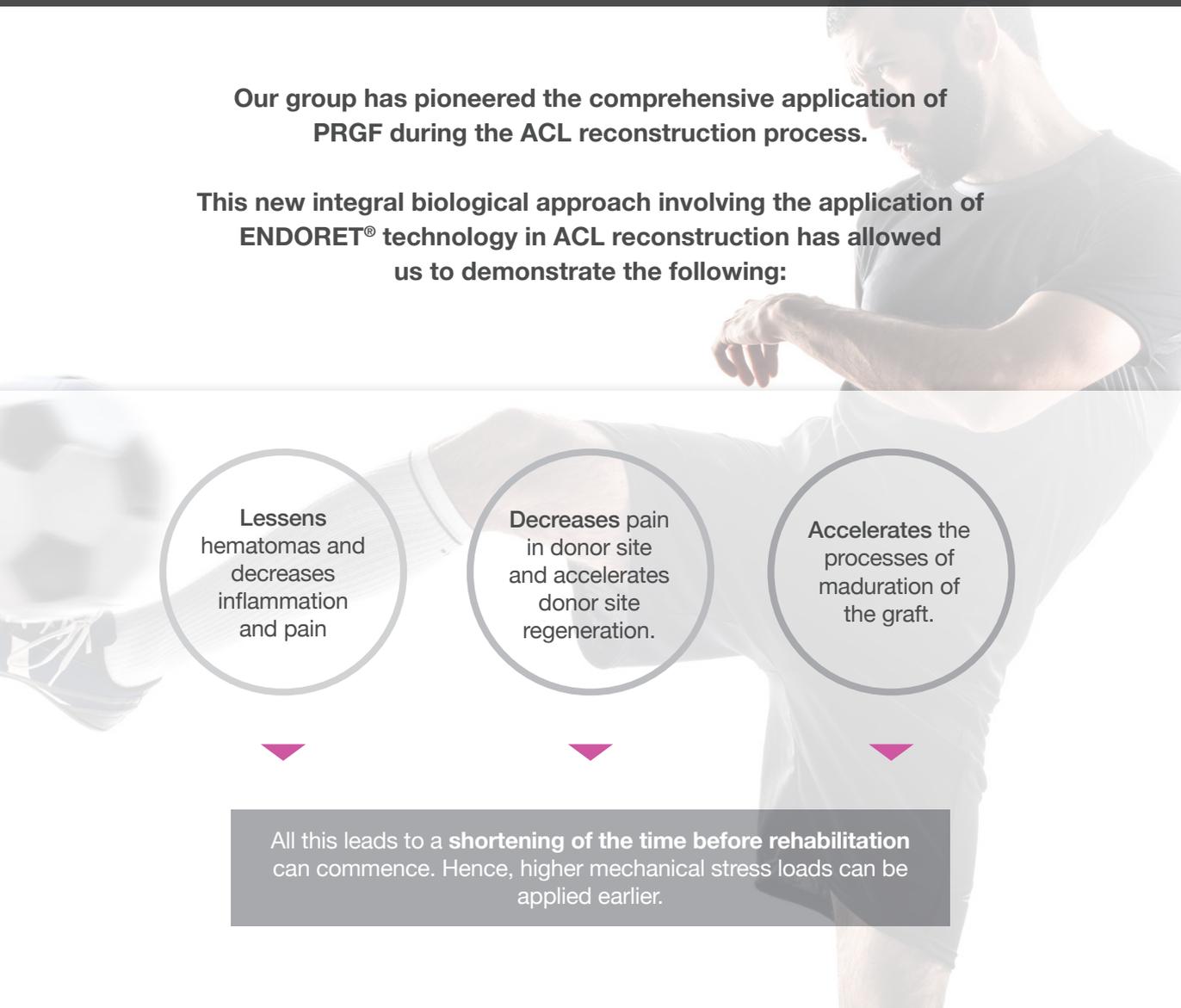


ANTERIOR CRUCIATE LIGAMENT RECONSTRUCTION ASSOCIATED WITH PLASMA RICH IN GROWTH FACTORS (PRGF)

Our group has pioneered the comprehensive application of
PRGF during the ACL reconstruction process.

This new integral biological approach involving the application of
ENDORET® technology in ACL reconstruction has allowed
us to demonstrate the following:



Lessens
hematomas and
decreases
inflammation
and pain

Decreases pain
in donor site
and accelerates
donor site
regeneration.

Accelerates the
processes of
maturation of
the graft.

All this leads to a **shortening of the time before rehabilitation**
can commence. Hence, higher mechanical stress loads can be
applied earlier.

Mikel Sánchez, Diego Delgado, Pello Sánchez, Nicolás Fiz, Juan Azofra, Gorka Orive, Eduardo Anitua and Sabino Padilla. Platelet Rich Plasma and Knee Surgery. *BioMed Research International* Volume 2014, Article ID 890630.

Roberto Seijas, Xavier Cusco, Andrea Sallent, Ivan Serra, Oscar Ares, Ramon Cugat. Pain in donor site after BTB-ACL reconstruction with PRGF: a randomized trial. *Arch Orthop Trauma Surg* (2016) 136:829–835

M. Sánchez, J. Azofra, B. Aizpurúa, R. Elorriaga, E. Anitua, I. Andía. Aplicación de plasma autólogo rico en factores de crecimiento en cirugía artroscópica. *Cuader. Artroscopia*, Vol. 10, fasc. 1, nº 19. Abril 2003.

Sanchez M, Anitua E, Azofra J, Prado R, Muruzabal F, Andia I. Ligamentization of tendon grafts treated with an endogenous preparation rich in growth factors: gross morphology and histology. *Arthroscopy*. 2010;26(4):470-480.

ABSTRACT

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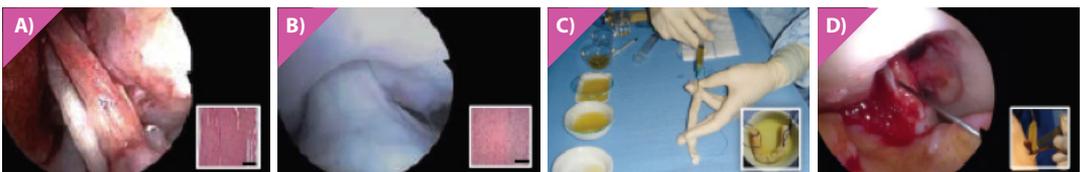
Platelet Rich Plasma and Knee Surgery

BioMed Research International Volume 2014, Article ID 890630.

Arthroscopic Anterior Cruciate Ligament Reconstruction Associated with PRGF-ENDORET®.

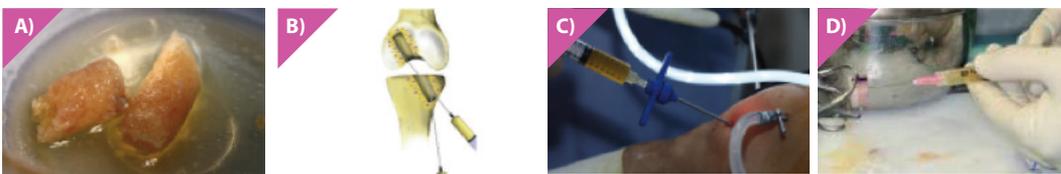
The following profile describes the process of ACL reconstruction by arthroscopy combined with PRGF-ENDORET® and using the autografts of semitendinosus tendon, gracilis tendon, and bone-tendonbone patellar tendon:

LIGAMENTIZATION



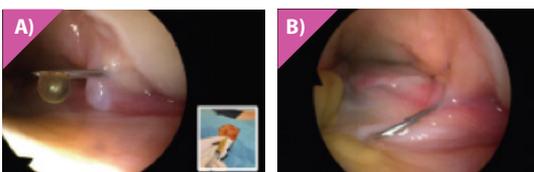
(a,b) Ligamentization of the graft. **(c)** Graft infiltration with 6ml of activated F2. Graft immersed in activated PRGF **(d)** Arthroscopic graft infiltration. Fibrin membrane at the donor site.

OSTEOGENESIS (GRAFT-BONE HEALING)



(a) Bone plugs soaked in activated F2. **(b,c)** Intraosseous infiltration of the tunnels and **(d)** infiltration of the auto- or allograft with activated F2.

ANTI-INFLAMMATORY ANTIFIBROTIC



(a,b) Intra-articular infiltration of activated F2.