

**Predicting risk of progression in relapsed multiple myeloma using traditional risk models, focal lesion assessment with PET-CT and minimal residual disease status**

David Baker,<sup>1\*</sup> Milan Bimali,<sup>2,3\*</sup> Luis Carrillo,<sup>4</sup> Archana Sachedina,<sup>5</sup> Daisy Alapat,<sup>4</sup> Md Shadiqul Hoque,<sup>1</sup> Mathew Kottarathara,<sup>1</sup> Richa Parikh,<sup>1</sup> Amani Erra,<sup>1</sup> Angel A. Mitma,<sup>1</sup> Pankaj Mathur,<sup>1</sup> Yetunde Ogunesan,<sup>1</sup> Lakshmi Yarlagadda,<sup>1</sup> Sravani Gundarlapalli,<sup>1</sup> Sharmilan Thanendrarajan,<sup>1</sup> Maurizio Zangari,<sup>1</sup> Frits van Rhee,<sup>1</sup> Guido Tricot<sup>1</sup> and Carolina Schinke<sup>1</sup>

<sup>1</sup>Myeloma Center, Division of Hematology/Oncology, Winthrop P. Rockefeller Cancer Institute, University of Arkansas for Medical Sciences; <sup>2</sup>Arkansas Children's Nutrition Center, Arkansas Children's Hospital; <sup>3</sup>Department of Biostatistics, University of Arkansas for Medical Sciences; <sup>4</sup>Department of Pathology, University of Arkansas for Medical Sciences and <sup>5</sup>Department of Radiology, University of Arkansas for Medical Sciences, Little Rock, AR, USA

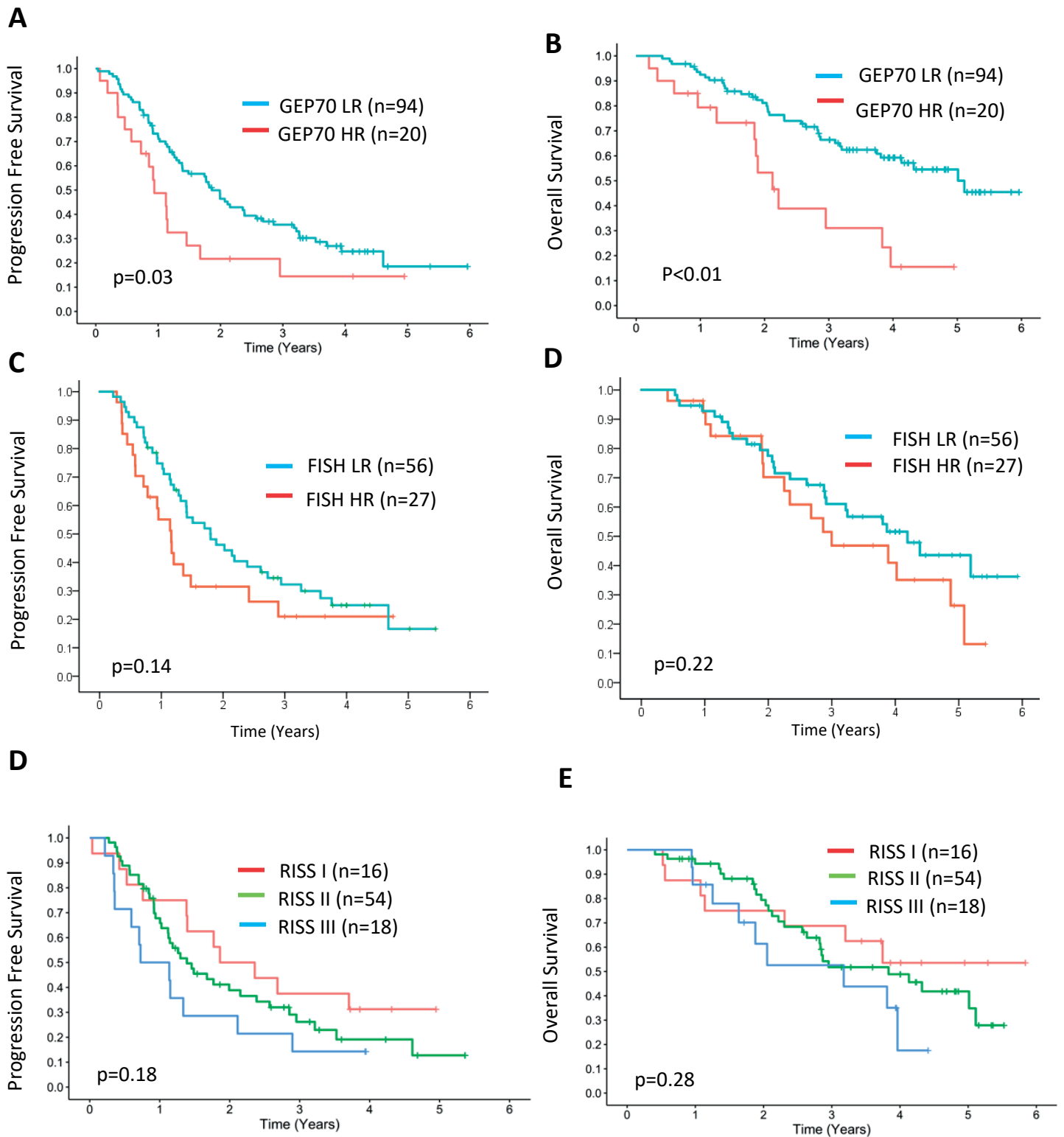
\*DB and MB contributed equally as co-first authors.

Correspondence: CAROLNA SCHINKE - cdschinke@uams.edu

doi:10.3324/haematol.2024.278779

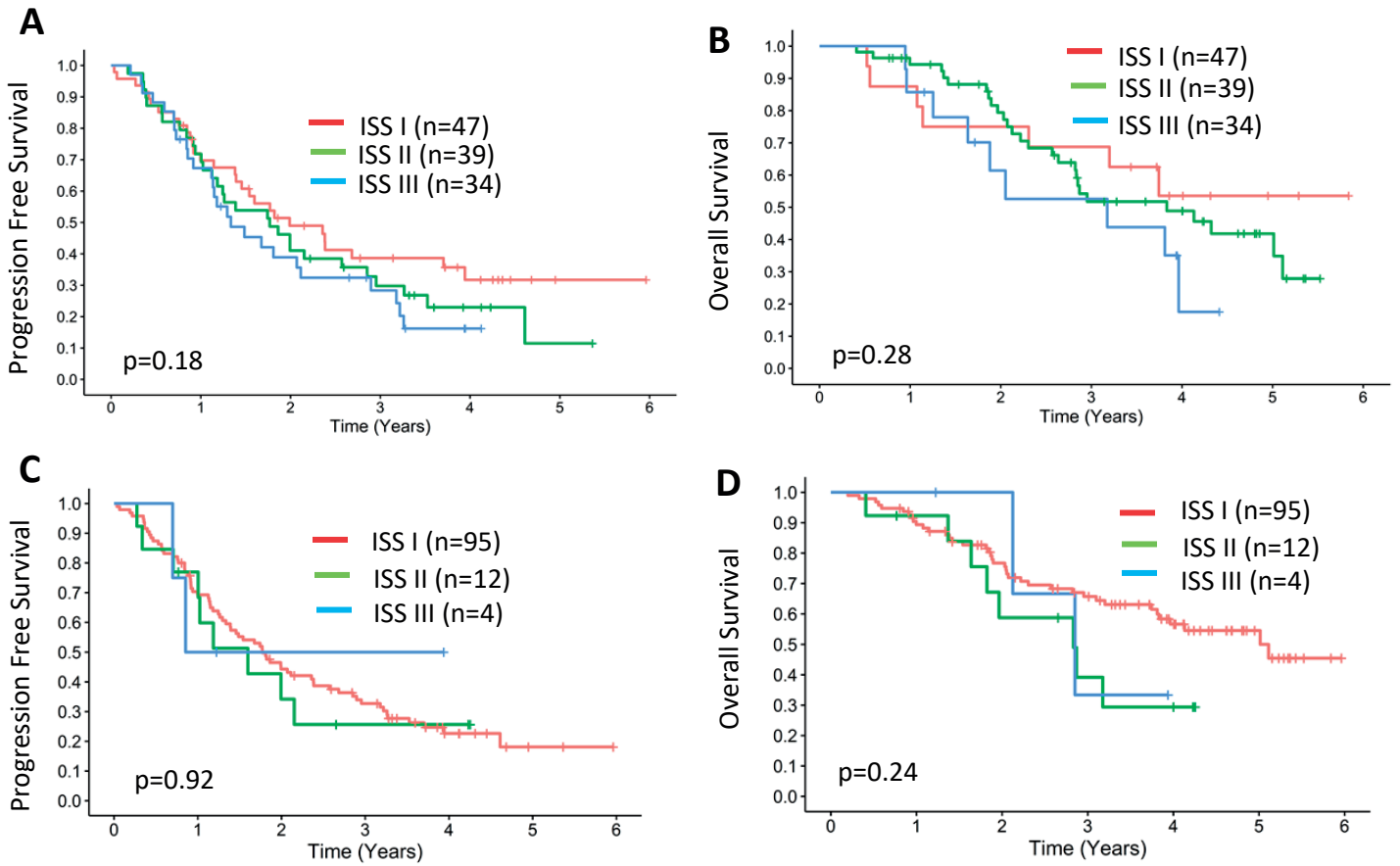
# Supplemental Text

## Supplemental Figure 1



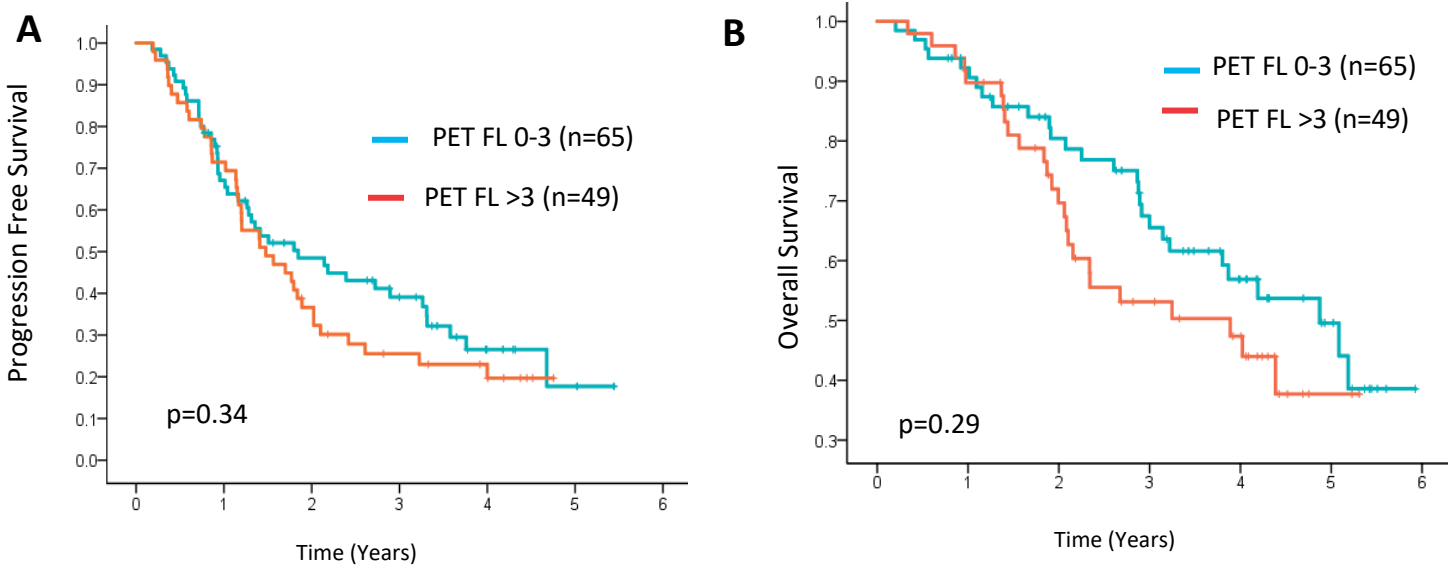
**Figure 1** shows prognostic impact of diagnostic GEP70 (A+B), FISH (C+D) and R-ISS (D+E) on progression free (PFS) and overall survival (OS) after first relapse.

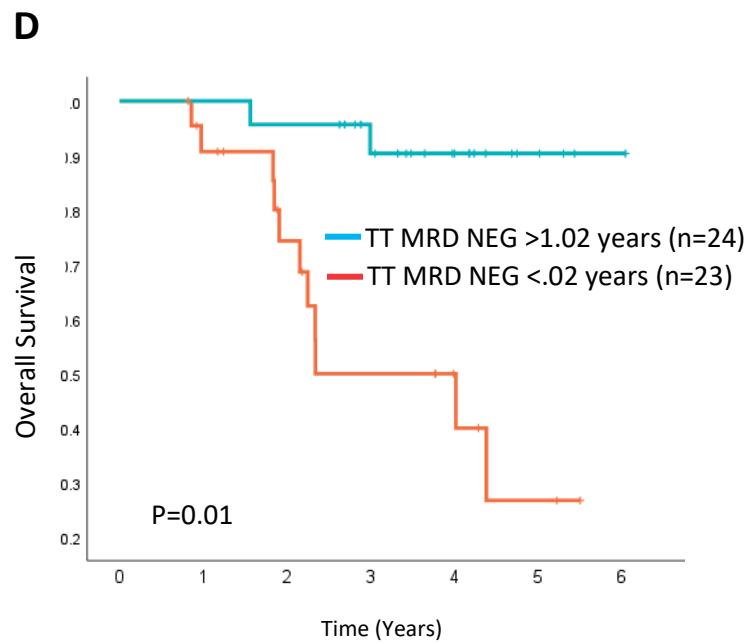
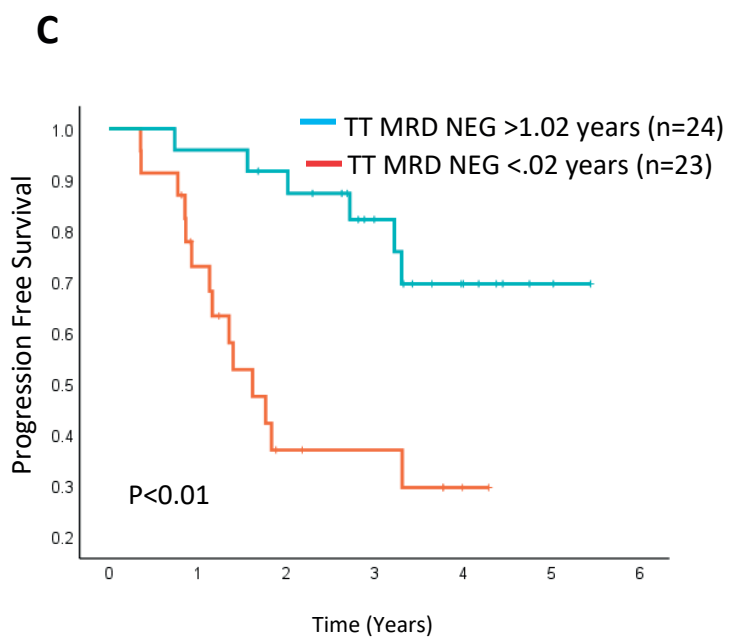
## Supplemental Figure 2



**Figure 2.** ISS measured at diagnosis (A+B) and at relapse (C+D) has no significant prognostic impact on PFS and OS at relapse.

## Supplemental Figure 3. Prognostic impact of PET-CT focal lesions at diagnosis on PFS and OS after relapse





**Figure 3.** Prognostic impact of PET-CT focal lesions at diagnosis on PFS and OS after relapse (A+B) and Impact of time to (TT) MRD negativity on PFS and OS (C+D).