

favourable clinico-pathological subgroups were largely excluded. Patients

were referred from a range of clinical settings and were not all fit to attend

oncology clinic. The survival time, defined as date of biopsy until death, or

censored if alive at follow-up date, was calculated. Survival curves were

plotted using Kaplan-Meier methods and the log rank test applied. Survival

analysis was carried out using Cox's proportional-hazards model and hazard ratios were calculated.

Results		
Patient characteristics	n=190	
	n (%)	Median (IQR)
Age years (<u><</u> 65, 66-74, <u>></u> 75)	71 (37), 55 (29), 64 (34)	69 (60-76)
Female	102 (54)	
Survival months (<1, 1-3, >3)	49 (26), 66 (35), 75(39)	2.1 (1-5.3)
ra(DC(0, 1, 2))	20(11) C $2(20)$ $117((1)$	

Table 3: The relationship between mGPS and absolute (percentage) survival at one month and three months, and median survival in patients with CUP

Conclusions

This analysis of 190 CUP patients has shown that mGPS, a biomarker of the systemic inflammatory response, is a strong prognostic factor in patients with 'poor prognosis' CUP. This simple score is derived from commonly used blood tests. When used alongside clinical assessment, standardised investigation and performance status it can provide additional objective information regarding prognosis. This may facilitate discussions with patients and help with decisions regarding the investigation and treatment of patients with CUP. In patients with mGPS of 2 it can help support early conversations about

advanced care planning.

We would advocate future work incorporating independent validation in other

|20 (11), 53 (28), 117 (61) |

 Table 2: Clinico-pathological characteristics of patients with cancer of unknown primary

mGPS is predictive of survival

- Median survival was **2.1** months in this patient cohort.
- 89% of patients had a CRP >10mg/l at diagnosis.

mGPS stratified median survival from 9.6 months with mGPS of 0 to

1.5 months with **mGPS of 2** (**p=0.001**).

71% of those patients with mGPS of 2 were dead at three months

compared to **21%** those patients with mGPS of 0.

cohorts of CUP patients and, if supported, incorporating these biomarkers of

the systemic inflammatory response into CUP clinical pathways and trials.

References

- Pavlidis, N., H. Khaled, and R. Gaafar, A mini review on cancer of unknown primary site: A clinical puzzle for the oncologists. Journal of advanced research, 2015. 6:3; 375-382.
 Pavlidis, N. and G. Pentheroudakis, C ancer of unknown primary site. Lancet, 2012. 379:9824; 1428
 - s, N. and G. Pentheroudakis, *C*

-35.

- Jones, W., et al., Cancers of unknown primary diagnosed during hospitalization: a population-based study. BMC Cancer, 2017. 17: 1; 85.
- Laird, B.J., et al. Prognostic factors in patients with advanced cancer: a comparison of clinic-Opathological factors and the development of an inflammation-based prognostic system. Clin Cancer Res, 2013. 19; 19: 5456-64.
- 5. Laird, B.J., et al. *Quality of Life in Patients With Advanced Cancer: Differential Association With Performance Status and Systemic Inflammatory Response.* J Clin Oncol, 2016. **34:** 3; 2769-75.