



# Alveolar Soft Part Sarcomas: a Tertiary Care Indian Centre Experience : the therapeutic journey from nihilism to cautious optimism

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## Introduction

- Alveolar soft part sarcoma (ASPS) is an ultra-rare and chemo refractory sarcoma.
- The natural history of ASPS is unique with an extremely indolent behavior with late symptomatic metastasis.
- Despite being a chemo resistant disease, it is known for prolonged survival even in a few metastatic patients with spontaneous disease stabilization and indolent disease behavior.
- Targeted therapy with antiangiogenic agents inclusive of tyrosine kinase inhibitors(TKI) and Immunotherapy has shown promise
- However, tyrosine kinase inhibitors feasibility data is sparse from low-middle income countries and merits exploration.

## Methods

- This is a retrospective audit of ASPS patients treated at TMC from Jan 2002 to August 2021 .
- Patients with confirmed histopathological diagnoses of ASPS were included in this analysis.
- Clinical, demographic, and treatment-related data were collected from Casefiles and Electronic medical records.
- Demographic data [Age, Gender]
- Clinical data [Tumor site/Size/Stage/Metastatic or Localised] and
- Treatment [Surgery/Radiotherapy/Chemotherapy/Antiangiogenic targeted therapy] were analyzed.
- The choice of systemic therapy was Ifosfamide (5.4-6g/m<sup>2</sup>)-adriamycin (60-75mg/m<sup>2</sup>) combination in the initial 14 years from 2002-2016; but over the next three years, with the evolution of literature, the treatment choice was anti-angiogenic therapy with tyrosine kinase inhibitors sunitinib, sorafenib and pazopanib.

## Methods

- We compare and contrast the patterns of care in the systemic therapy of ASPS with advanced disease with multi-tyrosine kinase inhibitors vs. conventional chemotherapy vs best supportive care and compared their respective outcomes

## Results

- There were 85 patients with a median age of 32 years; 48 (57 %) were males.
- Commonest primary site was extremities in 57(67%), 31 (37%) were de-novo metastatic(mASPS).
- Among the 54 (63%) non-metastatic patients, 24 relapsed and became metastatic and hence 55(65%) patients were treated for their metastatic disease at some point.

### ASPS :Non-metastatic Cohort

- Among the 54 nm-ASPS, 41(76%) underwent surgery, 34 (63%) received adjuvant and 4 received definitive radiation, 2 received adjuvant chemotherapy.
- At a median follow up of 27(95% CI-9-46) months, median EFS was 46(95% CI 0--142) months and predicted 3& 5-year EFS were 54%& 47% respectively.

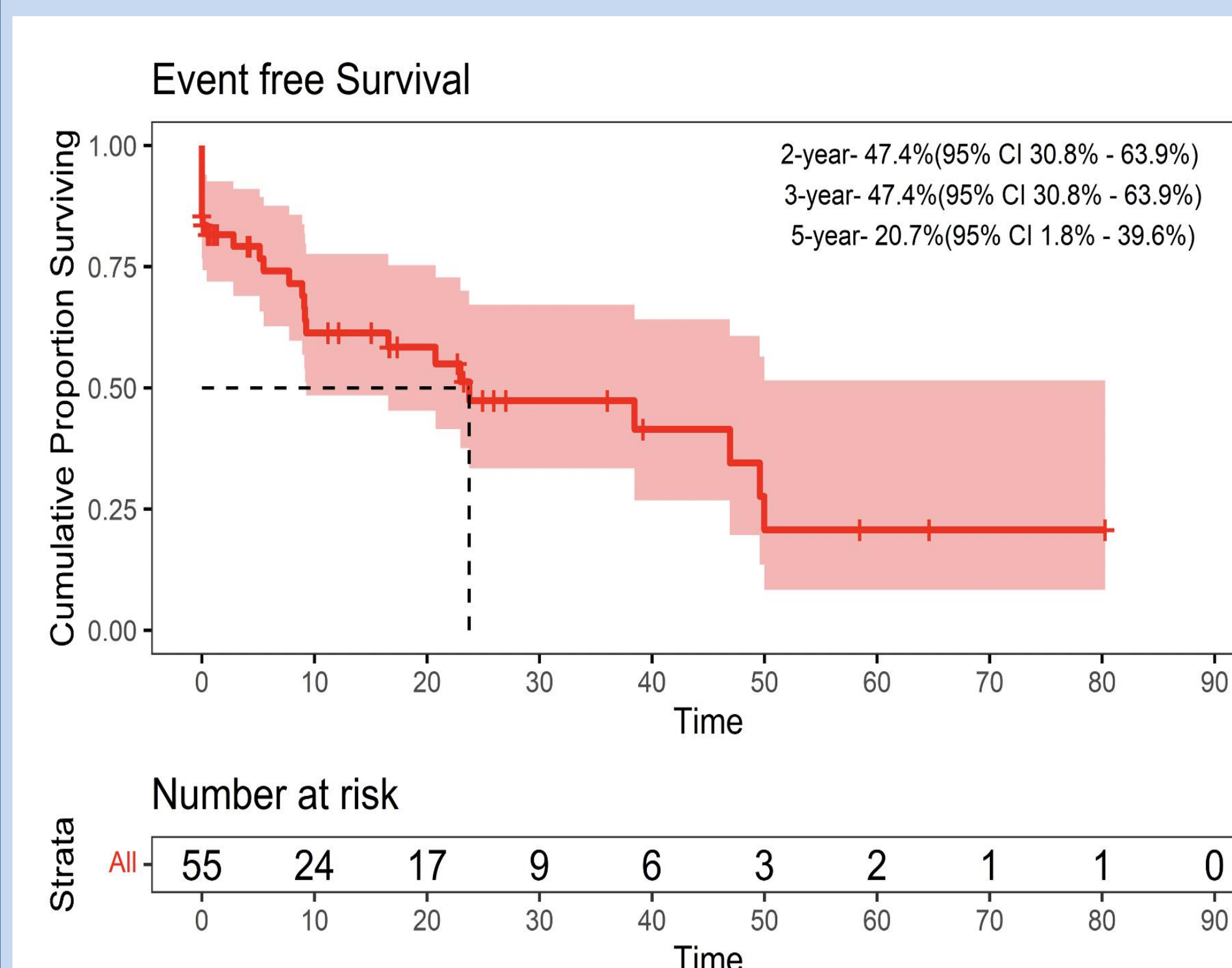
### Metastatic-ASPS

- Of the 55 total patients , 23 (41%) received best supportive care (BSC).
- Ten(18 %) received TKI (7-pazopanib, 3-sunitinib) and remaining received other systemic therapies.
- Eight (80%) had clinico-radiological responses, including 5(50%)-partial responses and 3(30%) stable disease.

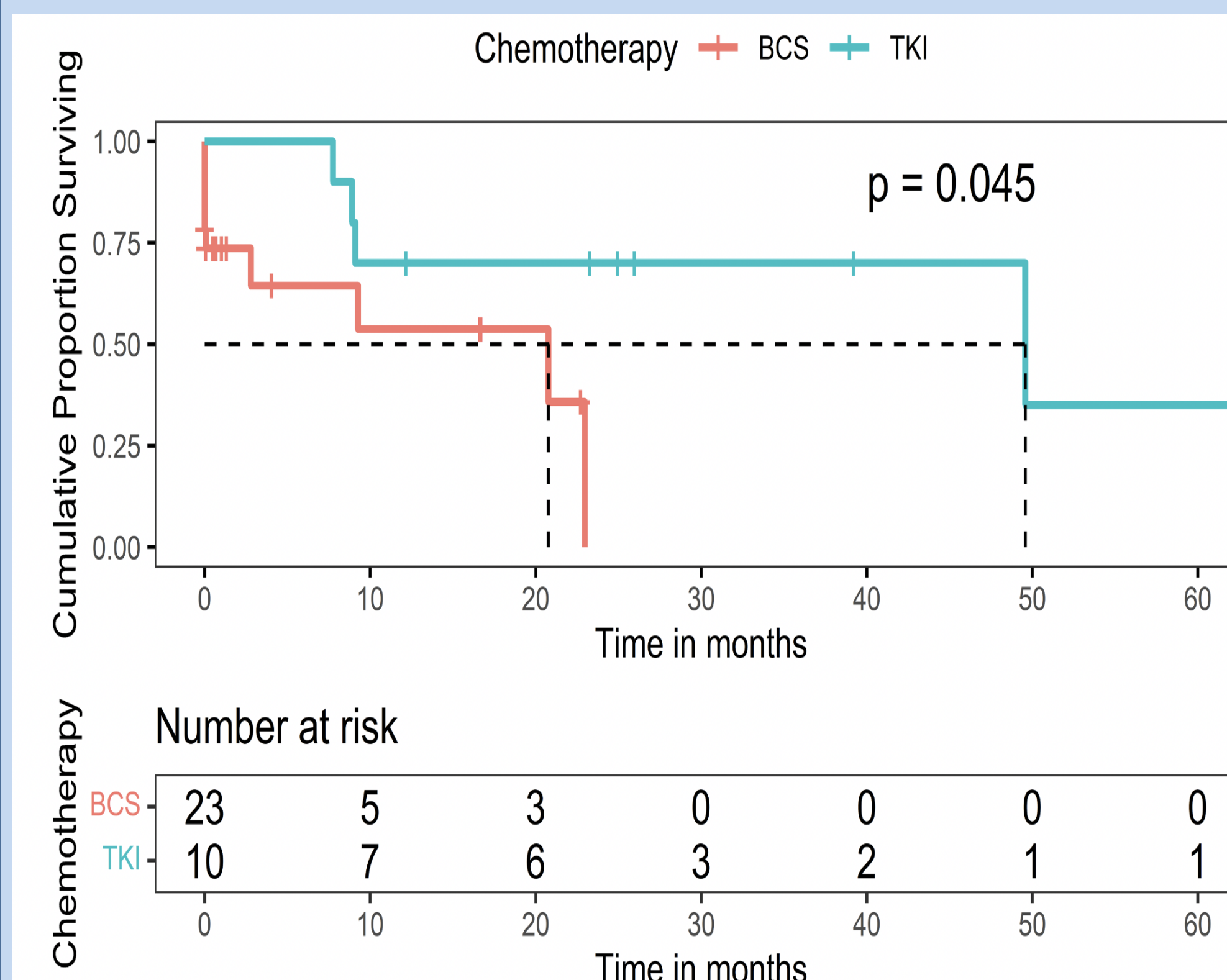
### ASPS: Metastatic Cohort: Outcomes

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## TOLERANCE

- The TKI were well tolerated with significant grade 3/4 toxicities seen (with 800 mg dose) in 3 patients including diarrhea (3), mucositis (1), hyponatremia (1).
- De-escalation to 600 mg leads to good tolerance in 7(70%).
- Majority were given 600 mg dose.

## Discussion

- ASPS is a systemic disease with high metastatic potential and poor chemo-sensitivity.
- The large series in ASPS suggest comparable practice pattern and results to published literature in nmASPS.
- Our institute practice has evolved from a policy of therapeutic nihilism to cautious optimism with antiangiogenic therapy leading to meaningful responses.
- With many novel agents in the pipeline and pathway-driven Basket trials and collaborative prospective clinical trials, the future of management of ASPS looks promising

## Conclusions

- There was a transition in treatment approach for mASPS from the best supportive care towards Tyrosine Kinase inhibitors with good clinical benefit and acceptable tolerance.
- Tyrosine Kinase inhibitors are a feasible standard of care option to mASPS even in low-middle income countries.

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