

1 **A RETROSPECTIVE AUDIT OF BIOJET® PROSTATE FUSION BIOPSIES**
2 **AMONGST PATIENTS SEEN IN A HIGH-VOLUME PRIVATE REFERRAL**
3 **CENTRE IN CAPE TOWN BETWEEN JANUARY 2017 AND APRIL 2020**

4
5 **Abstract**

6 **Introduction:** The field of prostate cancer has seen a dramatic change in its approach to
7 diagnosis, from the advent of PSA in the 1980s to the transrectal ultrasound guided 12 core
8 biopsies with a false negative rate of approximately 30%. Recent advances in this field
9 involve fusing MRI images with real-time ultrasound images to guide the surgeon. The aim
10 of the study was to evaluate the performance of Biojet® prostate fusion biopsy system in a
11 high-volume private referral centre.

12 **Methods:** Retrospective observational audit of men who presented to a private urology
13 practice in Cape Town for Biojet® prostate fusion biopsy based on clinical suspicion for
14 prostate cancer. Data were collected as per the recommendations of the Standards of
15 Reporting for MRI-targeted Biopsy Studies (START) of the Prostate group and anonymously
16 entered onto a Redcap database.

17 **Results:** The median age of the patient population was 64 (SD 9.124) years. The median PSA
18 level was 6.5 ng/ml (IQR- 4.7). Most patients (78/135) had a clinical stage of T1c (57%). In
19 the biopsy naïve group, a total of 103 PIRADS lesions were identified. Amongst the PIRADS
20 3 lesions 15/28 lesions (53%) had a positive cancer diagnosis. Of the PIRADS 4 lesions
21 37/60 lesions (62%) had a positive cancer diagnosis and in the PIRADS 5 group 13/15
22 lesions (87%) had a positive cancer diagnosis. 21 of the 42 men (50%) with a previous
23 negative prostate biopsy had a positive cancer diagnosis using the Biojet® prostate fusion
24 biopsy.

25 **Conclusion:** In this study the Biojet® prostate fusion biopsy performed similar to other
26 international studies however the pickup rate of cancer in those who had a previous negative
27 biopsy was higher than those seen in the other global studies.

28 Keywords: prostate, biopsy, MRI/Ultrasound fusion, Biojet

29

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30 INTRODUCTION

31 With an estimated 1,276,106 new cases of prostate cancer reported in 2018, prostate cancer
32 remains the second highest newly diagnosed cancer in men and ranks fifth amongst the
33 leading causes of death worldwide according to GLOBOCAN 2018 estimates¹. The age
34 standardised incidence rates of prostate cancer are highly variable worldwide. The incidence
35 rate of 64.1 per 100,000 reported in the Southern African region is lower than the incidence
36 rate in Australia and New Zealand which is 85.4 per 100,000. Some of the reasons
37 postulated for such variability include different screening strategies for prostate cancer,
38 underdiagnosis, and inequalities in healthcare access. It is suggested that Africa will have the
39 highest incidence of prostate cancer worldwide by the year 2040, which represents an
40 increase exceeding 120%¹.

41 South Africa is classified as an upper middle income country. Although the private
42 healthcare sector plays an important role in the health system, it covers only about 16% of
43 the population. There are major discrepancies in access to surgical services between the
44 public and private health sectors in South Africa².

45 The discovery of prostate specific antigen (PSA) in blood by Papsidero in 1980
46 revolutionised the diagnosis and management of benign and malignant conditions of the
47 prostate. Though PSA is not an ideal tumor marker it remains the most widely used cancer
48 diagnosis and follow-up marker³. An ideal prostate cancer test should be minimally invasive
49 with a low complication rate. It should also detect a high proportion of clinically significant
50 disease and avoid the diagnosis of clinically insignificant disease. The traditional diagnostic
51 pathway for prostate cancer has been by prostate biopsy after an abnormal digital rectal exam
52 (DRE) and/or an elevated PSA is detected in the investigation of symptomatic men; or during
53 screening for prostate cancer in asymptomatic men. The diagnostic pathway of prostate
54 cancer has evolved to include PSA isoforms⁴ and nomograms⁵; alternative prostate
55 sampling approaches (number of cores, saturation biopsies); alternative prostate sampling
56 routes (transperineal prostate biopsy), and fusion biopsy techniques (in-bore MRI fusion
57 biopsy, MRI-TRUS fusion biopsy, cognitive fusion biopsy)^{6,7}. The traditional diagnostic
58 pathway has significant limitations that have been exemplified by large studies such as:

59 **European Randomised Study of Screening for Prostate Cancer (ERSPC), CAP**
60 **randomised clinical trial, and PIVot trial. The European Randomised Study of Screening**
61 **for Prostate Cancer (ERSPC) showed that PSA-based screening reduced the rate of death**
62 **from prostate cancer by 20% but was associated with a high risk of overdiagnosis. The CAP**

63 **randomised clinical trial** showed that a single PSA-screening intervention detected more
64 prostate cancer but had no significant impact on prostate cancer mortality after a median
65 follow up of 10 years. The **PIVOT trial** – showed that radical prostatectomy did not reduce
66 all-cause or prostate cancer specific mortality amongst men with localised prostate cancer
67 detected during the early era of PSA testing. These studies suggest that the traditional
68 pathway of prostate cancer diagnosis had a high detection rate of clinically insignificant
69 disease.

70 The role of prostate MRI in optimising the diagnostic pathway for prostate cancer is
71 supported by the following landmark studies:

72 **PROMIS study**⁸ reported that incorporating MRI as an initial test in unscreened men
73 referred for prostate biopsy was likely to reduce the proportion of unnecessary biopsies, miss
74 fewer men with clinically significant prostate cancer, and enhance cost effectiveness.

75 **PRECISION study**⁹ compared targeted biopsy in patients with a positive MRI with PI-
76 RADS v2 (Prostate Image- Reporting and Data Systems version 2) lesion 3 or greater and no
77 biopsy in patients with a negative MRI. The results showed that fewer men required a biopsy,
78 fewer biopsy cores were required, more clinically significant cancers were detected, and
79 fewer clinically insignificant cancers were detected.

80 Similarly, other studies by Preisser et al. and Maxeiner et al.^{10 11} have demonstrated the
81 increased cancer detection rates using the MRI pathway in patients who are biopsy naïve and
82 those who have had a previous biopsy. They have also demonstrated that the risk of
83 harbouring prostate cancer increases with a higher PIRADS score.

84 **MRI-FIRST study**¹² –showed that combining systematic and targeted prostate biopsy based
85 on MP-MRI findings improved the detection of clinically significant (ISUP grade group2 or
86 greater) prostate cancer in biopsy-naïve patients.

87 Studies done by **Kasivisvanathan**⁹ and **Schoots**¹³ have illustrated the important role which
88 the MRI diagnostic pathway plays in avoiding the diagnosis of insignificant cancer, wherein
89 approximately 25% -33% of the patients avoided a prostate biopsy based on a negative MRI.
90 The criteria used to qualify prostate biopsy histopathology results as significant cancer varies
91 from study to study and no global consensus exists on this matter.¹⁴By extrapolating from
92 active surveillance data, some studies¹⁵ use the “Epstein criteria” (defined as cancer Gleason
93 score 3+3= 6 (GrG1), involving one or two cores, with no core involved with >50% of
94 cancer, and a PSA density of <0.15ng/ml per cm³ to define insignificant cancer. The Ahmed

95 criteria uses a more complex definition, borrowed from transperineal mapping biopsy
96 results.¹⁶ It classifies insignificant cancer as: Gleason 3+3 =6, total cancer core length of ≤
97 5mm, and maximum cancer core length of ≤ 3mm. In the PRECISION study⁹ insignificant
98 cancer was based on the highest Gleason score being ≤3+3 =6.

99 In the studies done by **Kasivisvanathan et al.⁹**, **Porpiglia et al.¹⁷**, **Baboudjian et al.¹⁸**, and
100 **Ahdoot et al.¹⁹**, the patients had a mean age of 63-70 years, median PSA level of 5.9-
101 9.2ng/ml, and a normal rectal examination finding varied from 35% of patients (**Ahdoot¹⁹**) to
102 86% (**Kasivisvanathan⁹**).

103 The field of prostate cancer diagnosis is evolving with MRI assuming a pivotal role in
104 contemporary diagnosis paradigms.

105 There are no local/ African studies reporting on the role of MRI in the diagnosis of prostate
106 cancer. It is therefore unclear whether MRI will have similar effects on prostate cancer
107 detection in a local cohort as has been reported in European and American populations. We
108 aimed to report the positive prostate biopsy rate by a single operator using the Biojet®
109 prostate fusion biopsy system in a privately funded urology practise in Cape Town, South
110 Africa.

111

112 **MATERIALS AND METHODS**

113 **Study population**

114 This was a retrospective, audit of prospectively collected data. Men who visited a private
115 urology practice in Cape Town and underwent Biojet® MRI fusion prostate biopsies between
116 January 2, 2017, and April 30, 2020, were considered for inclusion in this study. Specifically,
117 in this practice all men who had both a clinical suspicion of prostate cancer and a positive
118 MRI result were offered a Biojet® MRI fusion prostate biopsy conducted by the operator at
119 the centre during the mentioned timeframe. One hundred and thirty-six patient folders were
120 audited. None of the 136 cases eligible for inclusion were excluded. The Epstein criteria were
121 used to define clinically significant disease. The data was collected on a data collection sheet
122 as per the START²⁰ recommendations. This data was anonymised and captured onto a
123 REDCap database. The protocol was reviewed by UCT human research ethics committee
124 (HREC 564/2020).

125 **Data analysis**

126 IBM SPSS TMversion 29 was used for data analysis. Continuous variables were reported with
127 the appropriate measures of central tendency. Frequency tables were produced for categorical
128 data. Statistical significance for inferential statistics was accepted at $p \leq 0.05$.

129

130 **RESULTS**

131 The median age of the patient population was 64 (SD 9.124) years. The median PSA level
132 was 6.5 ng/ml (IQR- 4.7). Most patients (78/135) had a clinical stage of T1c (57%), followed
133 by T2a (34/135) (25%), T2b (19/135) (14%) and T2c (3/135) (2.2%). The most common
134 clinical presentation was for lower urinary tract symptoms 64/138 (47%), the second most
135 common presentation was for prostate cancer screening 55/138 (40%), (Table 1).

136 A total of 60/136 patients (44%) had a previous biopsy, (Table 1). Of those that had a
137 previous biopsy, the TRUS method was the most common 54/60 (90%). A total of 16/18
138 (12%) had a previous positive biopsy of Grade Group (GG) 1 (one had GG2 and one had >
139 GG3).

140 Most patients 121/136 (89%) had no benign prostatic obstruction directed prostate treatment
141 prior to biopsy. Of the 15/136 patients who had surgical prostate treatment prior to biopsy,
142 eight patients had functional reasons while for two patients the reason was not clearly stated.
143 25% (15/60) of patients who had a previous biopsy were on active surveillance.

144 A 3-Tesla MRI was used in 55% (75/136) of the cases. It is not known what the details of the
145 MRI scanner were for the rest of the group (42% [57/13]). An endorectal coil was used in 4
146 /136 patients. In 99% (134/136) of the patients, all 3 sequences of a multi-parametric MRI
147 were used for reporting. All the MRI reports were in prose, 19% (38/136) of the reports
148 included drawings, and 11% (22/136) had snapshots of the lesions with the prose report.

149

150 **Table 1:** Patient demographic characteristics and multiparametric MRI findings

Men included in analysis, <i>n</i>	136
Age, median (SD), years	64 (9.124)
PSA, median (IQR), ng/ml	6.5 (4.7)
Clinical stage, <i>n</i> (%)	
T1a/b	1 (0.7)
T1c	78 (57.4)
T2a	34 (25.0)
T2b	19 (14.0)
T2c	3 (2.2)
Presentation, <i>n</i> (%)	
LUTS	64 (47.1)
Screening	55 (40.4)
Other	18 (13.2)
Unknown	1 (0.7)
Prostate volume, median (IQR), ml	44 (33)
Previous biopsy, <i>n</i> (%)	
Yes	60 (44)
No	76 (56)
On Active Surveillance, <i>n</i> (%)	15 (11)
mpMRI findings	
Total number of lesions, <i>n</i>	272
PIRADS score, <i>n</i> (%)	
PIRADS 3	61 (22)
PIRADS 4	151 (56)
PIRADS 5	40 (15)
Biopsy Naïve group, <i>n</i> of lesions	103
PIRADS 3	28
PIRADS 4	60
PIRADS 5	15

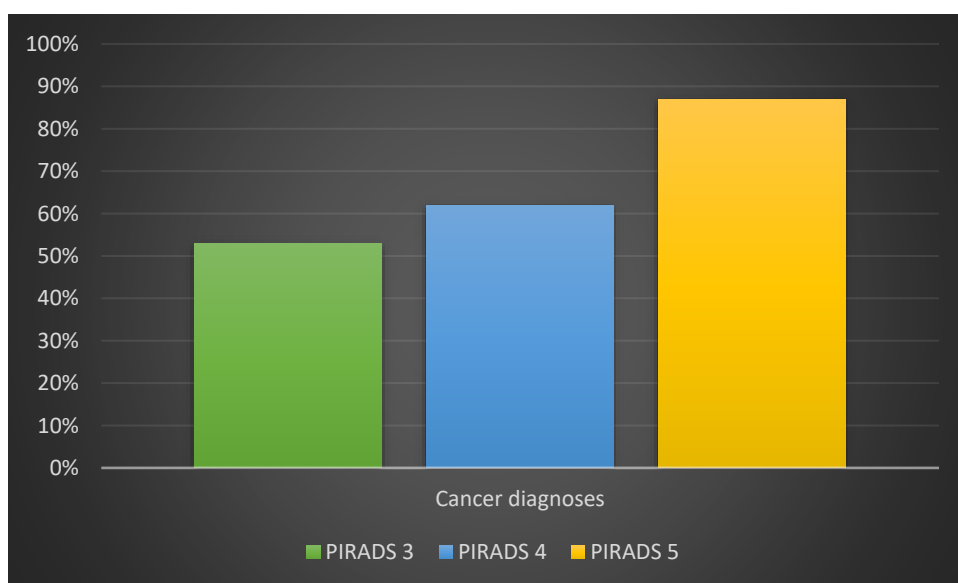
151

152 The median prostate size was 44mls (IQR- 33) with a minimum of 14cc and a maximum of
 153 148cc, (Table 1). Amongst the 136 patients there was a total of 272 lesions, with a mean of
 154 $1,99 \pm 1,10$ (SD) lesions per patient. The mean lesion size was $9,68\text{mm} \pm 5,98$ (SD). Most
 155 lesions were on the right (47%) (128/272), the rest were on the left (43%) (117/272). Most
 156 lesions (77%) (208/269) were in the peripheral zone (PZ), the transitional zone (21%)
 157 (57/269) and anterior fibromuscular stroma (1.5%) (4/269) accounted for the rest. Most
 158 (63%) (86/135) of the MRI studies were done at radiology firm A, and (21%) (28/135) at
 159 firm B. The remaining 21 MRIs were done by 7 different radiology firms, each of which had
 160 less than 5 MRI reports per firm over the study period.

161 Most lesions had a PIRADS of 4 (56%), followed by PIRADS 3 (22%). Forty lesions (15%)
162 had a PIRADS of 5. (Table 1)

163 In the biopsy naïve group, a total of 103 PIRADS lesions were identified. Amongst the
164 PIRADS 3 lesions 15/28 lesions (53%) had a positive cancer diagnosis. Of the PIRADS 4
165 lesions 37/60 lesions (62%) had a positive cancer diagnosis and in the PIRADS 5 group
166 13/15 lesions (87%) had a positive cancer diagnosis. (Figure 1)

167



168

169 FIGURE 1: Positive pick-up rates for the corresponding PIRADS amongst the biopsy naïve
170 patients' group.

171

172 A chi-square test of independence was conducted between PIRADS and cancer diagnosis. All
173 expected cell frequencies were greater than five. There was a statistically significant
174 association between PIRADS and cancer diagnosis, $\chi^2 (2) = 10,38$, $p = 0,006$. The
175 association was moderately strong, Cramer's $V = 0,203^{21}$.

176 A total of 2046 targeted cores were taken for the 272 lesions identified, with a median of 7
177 cores. A total of 62/136 (46%) patients had cores positive for clinically significant disease
178 from targeted biopsies and 23/136 (17%) patients had cores positive for clinically
179 insignificant disease. 95 patients had accompanying systematic biopsy of which a total of
180 1268 cores were sampled. A total of 28/95 (29%) patients had cores positive for clinically
181 significant disease from non-targeted biopsies while 11/95 (12%) patients had cores positive
182 for insignificant disease.

183 18/136 patients (13%) had a radical prostatectomy (17 of which had Robotic Assisted
184 Laparoscopic Prostatectomy (RALP). 70% of the patients who underwent radical
185 prostatectomy had a PIRADS 4 lesion, 20% PIRADS 5 and 10% PIRADS 3 lesion. Most had
186 a Gleason score of 3+3 for both right and left reports. The mean involvement was 23,43%
187 (SD- 24,46) on the right side and 27,99% (27,21SD) on the left. The biopsy diagnosis was
188 accurate (biopsy grade was similar to the final histopathology specimen) for 61% of patients
189 who underwent a radical prostatectomy. In those whom it was inaccurate- 6 were upstaged
190 and 2 were down staged.

191 21 of 42 patients (50%) with a previous negative biopsy had a positive cancer diagnosis with
192 the Biojet® MRI fusion targeted prostate biopsy. (Figure 3) 17 of the 21 patients (81%) with
193 a previous negative biopsy had a clinically significant cancer.

194

195



196 FIGURE 3: Infographic from our study showing that of the 50% who had a previous negative
197 TRUS guided biopsy had a positive diagnosis for cancer using the Biojet® MRI fusion
198 targeted prostate biopsy (Key: Blue- positive for cancer, Black- negative for cancer)

199

200 **DISCUSSION**

201 The study reflects a real-life scenario outside of an academic hospital setting and the only
202 study reporting on the matter from sub-Saharan Africa.

203 The patient demography in this study was similar to international studies.^{9, 17-19} The cohort
204 included in this study is from a private healthcare service which, according to Dell et al.² ,
205 forms about 16% of the South African health care system. This group has much better access
206 to healthcare services than most of the South African population who use government-funded

207 healthcare services. These findings may therefore not be generalisable to a wider South
208 African population.

209 The distribution of PIRADS scores was like those in the studies reported by **Preisseret al.**¹⁰
210 **and Maxeiner et al.**¹¹, where majority of the lesions were PIRADS 4 lesions. In the biopsy
211 naïve cohort, the cancer detection rates for PIRADS 3, 4 and 5 were 53%, 62% and 87%
212 respectively. This is comparable to other studies where the PIRADS 3, 4 and 5 cancer
213 detection rates were: 31%, 63% and 89% (**Preisser 2019**¹⁰); 38%, 78% and 95% (**Maxeiner**
214 **2018**¹¹); and 57%, 82% and 95% (**Donato, 2019**²²). Biopsy detection rates with this system
215 seem similar in this South African cohort to those reported in international studies. The
216 fusion biopsies reported in this study were performed by a high-volume, expert single
217 operator. It is uncertain whether less experienced operators will obtain equivalent outcomes.
218 The cancer detection rate in the cohort with a previous negative biopsy was slightly higher
219 than that reported by (**Preisser 2019**), 50% in the cohort reported in this study versus 38% in
220 the (**Preisser 2019**) study¹⁰. We cannot account for this difference.

221

222 **CONCLUSION**

223 As fusion biopsy becomes more widely accessible in South Africa in the future, pooled
224 results from multiple operators on multiple fusion biopsy systems may elucidate whether
225 MRI-fusion biopsy outcomes are indeed equivalent locally to those reported abroad. These
226 outcomes may also assist in defining the role of MRI-fusion biopsy in the prostate cancer
227 diagnosis paradigm in the local context.

228 **LIMITATIONS**

229 In this retrospective audit, some data may not have been captured due to variations in patient
230 treatment choices, with not all patients undergoing prostatectomy and some seeking treatment
231 at external facilities. Consequently, the final prostatectomy results for these individuals were
232 unavailable for analysis.

233 Numerous confounding factors, such as variations in the expertise of reporting MRI studies
234 and histopathological specimens, as well as the accuracy of fusion during the procedure,
235 remain unaccounted for and have the potential to impact the study outcomes.

236

237 **FURTHER RESEARCH**

238 A prospective study that has addressed the confounders would perhaps yield a more accurate
239 results on the positive pick-up rate of Biojet® prostate fusion biopsy system in a South
240 African population.

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