# Validation of Albumin Creatinine Ratio Point of Care Devices for Community Testing



# **Methods**

245

unselected urine samples



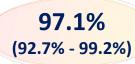








Results



Allegro®

**95.5%** (90.9% - 98.2%)

Parameter for detecting uACR >3.39 mg/mmol and above

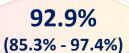
Minuteful Kidney®

**93.5**% (88.5% – 96.9%)

Siemens Clinitek<sup>(R)</sup>







**47.8%** (37.1% - 58.6%)

**80.0%** (70.2% – 87.7%)

## **POC** devices

(urine albumin:creatinine ratio):

- Siemens Clinitek<sup>®</sup>
- Minuteful kidney<sup>®</sup>
- Allegro®





### Semi quantitative thresholds:

Normal: <3.39mg/mmol</li>

Abnormal: 3.39mg/mmol – 33.9mg/mmol/

High abnormal: >33.9mg/mmol

### Roche ACR assay:



0.3mg/mmol to 936.2mg/mmol Mean of 44.83mg/mmol



Normal: 90 (37%) Abnormal: 91 (37%)

High abnormal: 64 (26%)

Conclusion: Performance of the POC ACR devices paralleled their accessibility and ability to be mobilised. These findings allow healthcare providers to understand the limitations of test performance when employing POC testing to screen for CKD.



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