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Total variation of AV access intervention in single center experience

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Objectives:

Interventional Nephrology is one of the subspecialty in nephrology including vascular access which as central catheter insertion and AVF or AVG interventions.

AVF/AVG interventions and tunneled catheter insertion have been conducted more quickly and delicate procedure have been done by specialized nephrologist.

In ChungNam National University Hospital, Interventional Nephrology has started since 24th-April-2012.

Total cases more increasing since then, and more nephrologist interested in interventional nephrology and step-wised training system make good trainees.

AV access is close relationship with temperature, So we assume that AVF or AVG interventions related with seasonal variation.

Analyzing total cases and seasonal variation will help nephrologist to provide more information about interventional nephrology and optimal care programs to patient.

Methods: Analysing total case of intervention in ChungNam National Uinverisity Hospital EMR program and seasonal midian temperature date quoted from Statistics Korea

Results: The result showed that in 2019 total case 281, PTA was most performed in the 3rd quarter (July~September). In 2018, total case 385 and PTA was most performed in 4th quarter (october~December)

Tunneled cuff catheter insertion was most performed in 3rd quarter in 2019.

In 2018, the result show same as previous.

Conclusions: AV access intervention was most performed in 3rd and 4th quarter.

Median temperature in 3rd and 4th quarter is around 13~25 °C and It means AV access malfunction or AV check-up is performed mostly in this season.

So, Nephrologist had better advise to patient more concern about their AV access in this season and nephrologist have to prepare and educate patient about AV access

Figure 1. AVF/AVG intervention annual total case

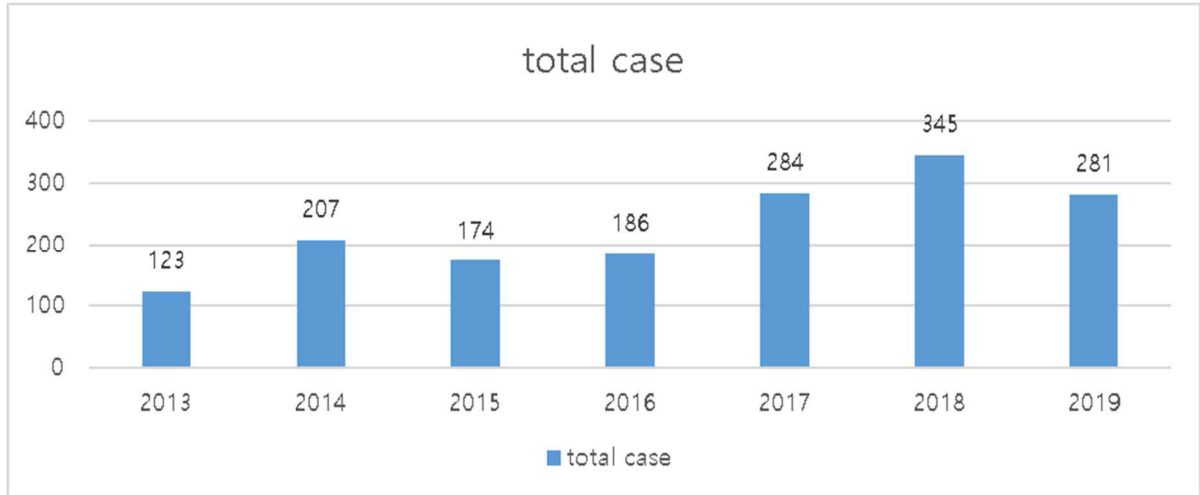


Figure 2. Vascular access (AVF/AVG) intervention total case by month

