

# ESWL

# Treatment Result with Direx Integra

Kumamoto Urological HP

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## Background

About 700cases/year of urolithiasis were treated in our hospital. (ESWL/TUL/f-TUL/PNL/Vesical Lithotomy). The number of ESWL treatments was about 600cases/year and we expect that the number of patients will increase still more in the future. We have started to use a new ESWL device (DiREX Integra) since April of 2009, in parallel to the use of Storz Modulith SL20, which has been used for a long time in our hospital. We report here the results of ESWL treatment with Direx Integra during April 2009 - January 2010.

## Case Report

305 cases were treated with Direx Integra.

**(Term)** 10 months during April 2009 - January 2010

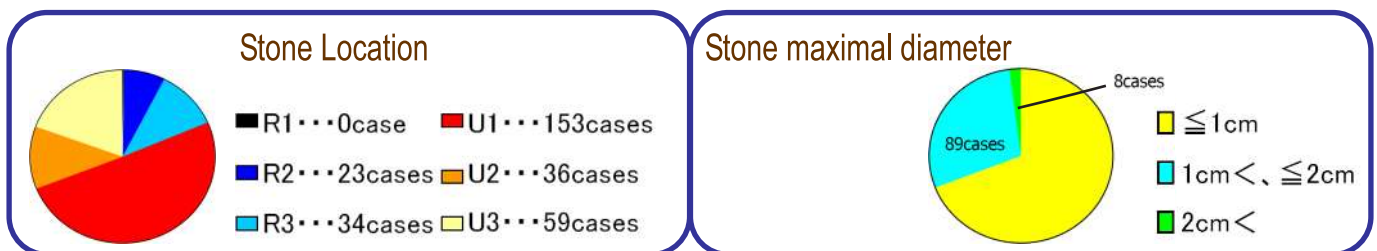
**(Sex)** Male: 213 cases. Female: 92 cases

**(Age)** 19 ~ 102 y. o [Average:56.2 y. o]

**(Details)**

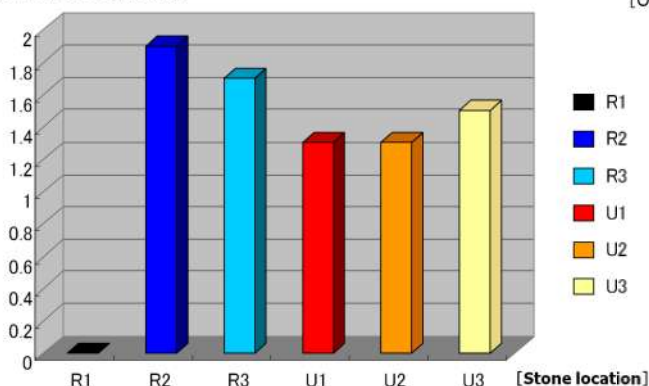
- ◆ Number of shocks : Max 5000 shocks/session (Renal stones : Max 3500 shocks/session)
- ◆ Level : 1 ~ 20 (Max Power:300 Bar)
- ◆ Evaluate the overall success rate (stone free cases & cases with residual fragments less than 4mm) within 3 months after treatment.

## Stone Information

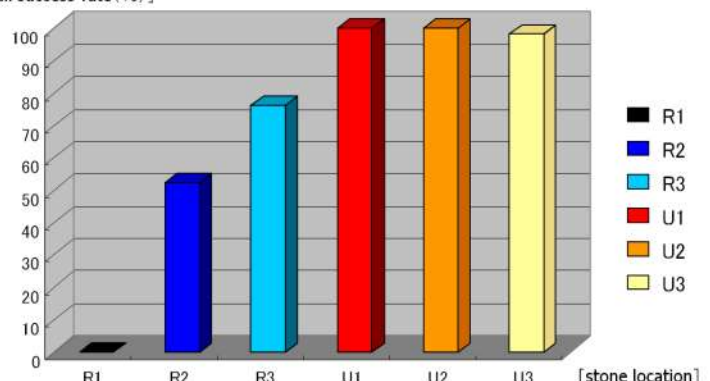


## Treatment Result According to Stone Location (Average number of sessions)

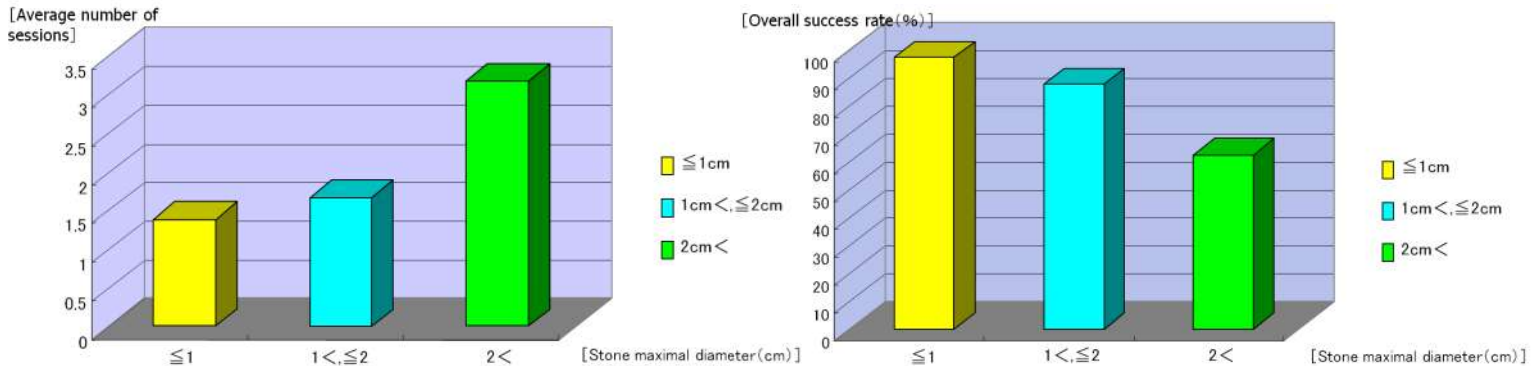
[Average number of sessions]



[Overall success rate(%)]



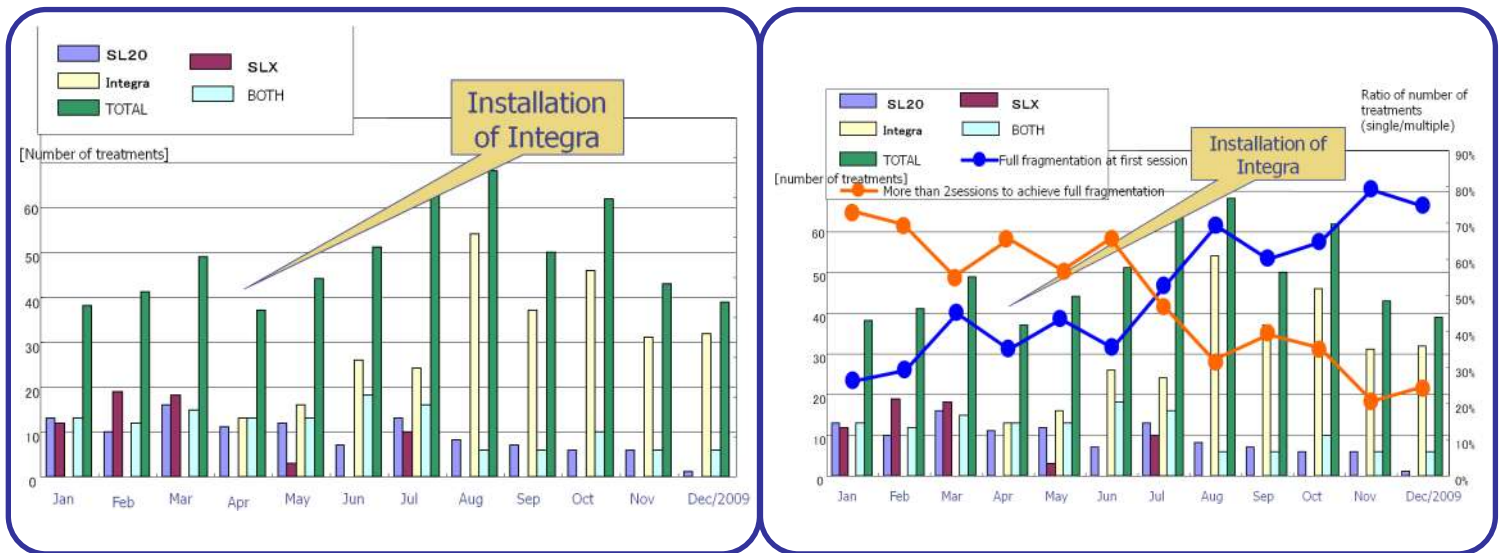
# Treatment Result According to Maximal Diameter (Average number of sessions)



## Conclusions

- ◆ Mild complication ... Gross hematuria (Almost all cases)  
Subcutaneous hematoma Colic attack (pain, nausea, vomiting)
- ◆ Serious complication ... Renal subcapsular hematoma (2cases)  
Pyelonephritis (3cases)

## 2009 ESWL Number of Treatments and the Graph of Fragmentation Results



## Summary

- ◆ This is a report of ESWL treatment results with Integra.
- ◆ We confirmed that ESWL treatments with Integra were effective for urinary stones with less side effect.
- ◆ The treatment results for renal stones were little worse than for ureteral stones. The cause might be the setting up the restriction of number of shocks and HV level for the safety, because we are still the second user of this machine in Japan.
- ◆ We are going to treat still more patients in order to conduct further examination of this machine.