PROCEEDING BOOK

THE 4th INTERNATIONAL CONFERENCE ON HEALTH SCIENCE 2017

“The Optimalization of Adolescent Health in The Era of SDGs”

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# Table of Contents

Page Address from The Chairman of The Conference........................................................... viii  
Address from Director of Health Polytechnic of Health Ministry Yogyakarta ......................... ix  
The 4th International Conference On Health Science 2017 Committee ................................. x  
List of Keynote Speaker........................................................................................................... xvi  
List of Oral Presentation.......................................................................................................... xvii  
List of Poster Presentation....................................................................................................... xix  
Abstract of Keynote Speakers................................................................................................ 1  
Full text of Oral Presentation................................................................................................. 10  
Full text of Poster presentation............................................................................................. 142  

## Keynote Speaker

**I-01 Role of Regional Head in Order to Successful Community Movement**  
**Health Living on Adolescent**  
Dra. Hj. Sri Muslimatun, M.Kes (Indonesia) ........................................................................ 1

**I-02 Health Ministry’s Policy to Improve Adolescent Health in The Era of SDGs**  
drg. Usman Sumantri, M.Sc (Indonesia) .................................................................................. 2

**I-03 Climate Change and The Health Consequences in The Population**  
Prof. Dr. Tengku Mohammad Ariff R. Husein (Malaysia) ........................................................ 3

**I-04 Overview for The Policy and Support of Government of Thailand**  
Prof Assoc. Prof. Patcharee Jearanaikoon, PhD (Thailand) .................................................... 4

**I-05 HIV Testing in Laboratory and Community to Detect Carrier Among Adolescence Immediately**  
Assistant Prof. Amonrat Jumnainsong, PhD (Thailand) ........................................................ 5

**I-06 Mental Health Detection in Teenagers**  

**I-07 Youth Marriage on Reproductive Health**  
Dr. Yuni Kusmiyati, SST.,MPH (Indonesia) ........................................................................... 7

**I-08 Hormonal Changes in Tissue Periodontium in Adolescents**  
Dr. drg. Dahlia Herawati, SU.,Sp.Perio (K) (Indonesia) ............................................................ 8

**I-09 Improving Child Nutrition Literacy For Teenage Pregnant Women And Its Implication To The First 1000 Days Of Child Life: Arguments For Developing Social Media Based Adolescent Support Group In Indonesia**  
Dr Dr. Mubasyisyr Hasan Basri, MA (Indonesia) ................................................................. 9
Oral Presentation

O-01 Identifying the Role of Hemoglobin in Intradialytic Nausea and Vomiting in Panembahan Senopati General Hospital in Bantul
Cornelia D.Y Neka, Eva Ernawati, Tia Amestiasih (Indonesia) .................................................. 10

O-02 The Influence Of Early Breastfeeding Initiation On Postpartum Mother’s Breast Milk Production In Lismarini Independent Midwifery Practice Palembang
Indah Rahmadanial, Lusi Meliani (Indonesia) .............................................................................. 18

O-03 Maternal Characteristics and Low Birth Weight
Tri Budi Winarsih, Hesty Widyasih, Margono (Indonesia) .......................................................... 22

O-04 Relationship of Obesity Early Pregnancy With Preeclampsia In RSUD Sleman 2016
Della Eprilian Sari, Dyah Noviawati Setya, Margono (Indonesia) ..................................................... 30

O-05 The Effectiveness of Nipple Stimulation By Providing Supplementary Food to Successfull Breastfeeding Back (Relactation) To The Breastfeeding Mothers In Southern Tangerang 2016
Isoni Astuti (Indonesia) .................................................................................................................. 35

O-06 Factors Related to Breast Cancer Among Women in Yogyakarta City Public Hospital, Indonesia
Tia Arsittasari, Dwiana Estiwidani, Nanik Setiawati (Indonesia) ...................................................... 43

O-07 The Effectiveness of Health Education Through Smartphone and Booklet on Knowledge and Attitude of Adolescence Reproductive Health
Puspa Sari, Kusnandi Rusmil, Arief S. Kartasasmita, Farid, Tati Latifah Erawati Rajab, Deni K. Sunjaya, Tina Dewi Judistiani (Indonesia) ............................................................. 51

O-08 Physical Activities and Snack Consumptions of Obese Adolescents In Bantul, Yogyakarta
Mellia Silvy Irdianty (Indonesia) ...................................................................................................... 60

O-09 The Correlation Education About Health Reproductive and Knowledge and Attitude of Health Reproductive of Adolescent
Kusbaryanto, Hatasar (Indonesia) ..................................................................................................... 68

O-10 The Relationship Between Knowledge, Attitudes, Actions Related to The Clean and Healthy Behavior and Nutritional Status with Diarrhea Events In Islamic Boarding School
Sinta Mukti Permatasari, Ayu Rahadiyanti, Fathimah (Indonesia) .................................................. 74

O-11 Factors Associated with Exclusive Breastfeeding among Working Mothers in Yogyakarta City, Indonesia
Sri Yunita, Munica Rita Hernayanti, Niken Meilani (Indonesia) ........................................................ 79

O-12 Characteristics of Sexually Transmitted Infections In Polyclinic dr. Sardjito Hospital Yogyakarta
Atika Karunia Zulfa, Jenita Doli Tine Donsu, Sugeng (Indonesia) ...................................................... 86
O-13 Factors That Influences of People Living With HIV/AIDS (PLWHA) in VCT Division of General Hospital Waluyo Jati Kraksaan District Probolinggo
Cicilia Windiyantingsih, Iis Hanifah (Indonesia) ................................................................. 95

O-14 Advanted of Sarang Semut Infusion (Myrmecodia Pendens Merr & Perry) as Decreased Blood’s Uric Acid in Male Rats of Wistar Strain
Agus Suprijono, Arianri Hesti (Indonesia) .............................................................................. 102

O-15 The Meaning and Role of Spirituality in HIV/AIDS Patients
Agus Prasetyo, Sodikin, Widyoningsih (Indonesia) ................................................................. 107

O-16 Therapeutic Communications Reduce The Patient’s Anxiety of Pre Operation Patiens
Intan Mirantia, Harmelah, Surantana (Indonesia) ................................................................. 111

O-17 Analysis of Related Factors with A Subjective Complaint of Musculo Skeletal Diseases (Part II) : Characteristics and Relationship Characteristics Individual Factors on Workers Insurance Office
Arif Jauhari, Kuat Prabowo, Arfia Fridianti (Indonesia) ......................................................... 117

O-18 Effects of Husband’s Support in The Duration of Second Stage of Labor Among Primigravida in Indonesia
Sagita Darma Sari, Desi Ratnasari (Indonesia) ....................................................................... 124

O-19 The Relationship Between Family Burden with Frequency of Recurrence Patient with Paranoid Schizophrenia
Livana PH, M Fathkhl Mubin (Indonesia) .............................................................................. 129

O-20 Information Through The Flipbook to The Level of Knowledge About Domestic Violence in Fertile Couples in Sleman in 2017
Yani Widyastuti, Khadizah Haji Abdul Mumin, Yuliantsisari (Brunei Darussalam) 135

Poster Presentation

P-01 Experience of Adolescents with Premenstrual Syndrome and Information-Focused Therapy (IFT) For Reducing Its Affective Symptoms
Dewi Marfuah, Nunung Nurhayati (Indonesia) ....................................................................... 142

P-02 Correlation of Amount of Parity and Menopause Age in Padukuhan Cangkringan, Argomulyo Village, Cangkringan District, Sleman Regency, Special Region of Yogyakarta
Ninyng Nurdianti, Sukmawati (Indonesia) ............................................................................. 152

P-03 The Risk of Obesity and Developmental Delay in 2-5 Year Old Stunted Children in Kanigoro, Saptosari, Gunung Kidul, Yogyakarta
Rr Dewi Ngaisyah, Siti Wahyuningsih (Indonesia) ................................................................. 158

P-04 Giving of Catfish Abon to the Creatinine Level of Haemodialysis Patients
Fery Lusviana Widiany, Ari Tri Astuti (Indonesia) ................................................................. 163

P-05 Effect of Moringa Oleifera Cookies in Anemia Adolescent
Devillya Puspita Dewi, Farissa Fatimah (Indonesia) ............................................................. 167
P-06 Experiences of Drug Users In IIA Class Jail Yogyakarta
Sri Hendarsih, Wisnu Sadhana (Indonesia) ................................................................. 171

P-07 A Social Ecological Perspective on The Indonesian Maternal Mortality Problem; An Annotated Bibliography
Inraini Fitria Syah (USA) .................................................................................................. 177

P-08 The Importance of Assistance to Cancer Patients with Mental Disorders
Muhammad Raftaz Kayani, Jenita Doli Tine Donsu (Pakistan) ...................................... 183

P-09 Larvicidal Activity of Star Fruit Extract (Averhoa carambola linn) Against Larvae of Aedes aegypti
Siti Zainatun Wasilah (Indonesia) ...................................................................................... 186

P-10 Factors Related to Decision Making Choosing Place of Delivery In Fakfak District West Papua Year 2017
Bernadet Dewi Kusuma Harimurti Kunde (Indonesia) ...................................................... 193
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CHARACTERISTICS OF SEXUALLY TRANSMITTED INFECTIONS IN POLYCLINIC DR. SARDJITO HOSPITAL YOGYAKARTA

Atika Karunia Zulfa*, Jenita Doli Tine Donsu, Sugeng Nursing Department of Health Polytechnic of Health Ministry Yogyakarta, Indonesia Email: atikakarunia@gmail.com

ABSTRACT

Sexually Transmitted Infections (STIs) is a disease that is transmitted by sexual contact. According to a health department report, Yogyakarta was a city with an incidence STIs highest in 2014, as many as 281 cases. The central of public hospital Dr. Sardjito is a referral hospitals type A which has featured service and have a special room for STIs in Polyclinic DermatoVenereology. The purpose of this research is to know the description of characteristic of Sexually Transmitted Infections in Polyclinic Dermato Venereology RSUP Dr. Sardjito Yogyakarta. The type of this research is a descriptive research with a restrospektif. The population of this reaserch is whole of Sexually Transmitted Infections patient in Polyclinic Dermato Venereology RSUP Dr. Sardjito Yogyakarta in 2015 with sample techniques namely the simple random sampling. The data collection instrument used was an observation sheet. From 71 patients showed that the most in the age 17-25 years (53,52%), has an senior high school levels of education 71,83%, were unmarried 43,66%, first sex in 17-25 aged (80,28%), have >5 sex partner 29,57%, choose genital seks 69,01%, not doing multiple partner seks (70,41%), and does not condoms 85,91%.

Keywords: Characteristic, Sexually Transmitted Infections

INTRODUCTION

Sexually Transmitted Infections (STIs) is a disease that is transmitted by sexual contact. Some STIs can also be spread through non-sexual means such as via blood or blood products. Many STIs including chlamydia, gonorrhoea, primarily hepatitis B, HIV, and syphilis can also be transmitted from mother to child during pregnancy and childbirth. More than 1 million STIs are acquired every day.

The dominant factor that determining the frequency and distribution sexually transmitted diseases in a society, among others is agent, host, and environment. Sexual behavior able to be seen through factors host. This makes a factor host become the focus research especially in characteristics.

Sexually transmitted infection in the developing country and complication ranked fifth top disease category an adult that need health care. Sexually transmitted infection can cause symptoms acute, chronic infections and serious consequences as infertility, ectopic pregnancy, cervical cancer, and of sudden death in infants and adults.

Incidence STIs currently increase in Indonesia, For example prevalence of syphilis increased to 10 % in some groups of women sluttish, 35% in trasvestites group, and 2 % in pregnant mothers.

The STIs Case in 2014 for each area at Yogyakarta special region : Yogyakarta city as many as 281 cases, Sleman 10 cases, Bantul 35 cases, Meanwhile not found data STIs in wates regency and wonosari regency. According to a health department, this data obtained from all hospital in the district / city be reported in health department yogyakarta special region.

According to preliminary results in installation medical record Dr. Sardjito General Hospital Yogyakarta for polyclinic dermatovenerology in 2014 there are 173 STIs cases.
and 242 cases in 2015. The data describe that there are increasing cases of STIs of visiting doctor in Polyclinic DermatoVenerology RSUP Dr. Sardjito Yogyakarta with different kinds of the characteristics on every patients.

METHODS

The research is descriptive research with a research design retrospective. The methodology descriptive is research intended to investigate the state, conditions, the situation, events, activities andect. The result of described in the research reports.

The population is the whole subjects research or objects study. Population in researched process this is all patients sexually transmitted infection in polyclinic dermatovenerology Dr. Sardjito General Hospital Yogyakarta in 2015 (January until December 2015) were 242 people. The sample collection using a simple random sampling technique some 71 respondents. Technique the sample give an equal chance for every elements (members) a population to were chosen to be the sample members.

Data collection use sheets of observation (a record of a document) structured. Sheets observation shaped checks list of which consisted of six characteristics sufferers sexually transmitted infection with his choice in accordance with the criteria on a measuring instrument.

RESULTS

Table 1. Cross Mate Medical Diagnostic Sexually Transmitted Infections Based On Age At Polyclinic DermatoVenerology RSUP Dr. Sardjito Yogyakarta In 2015 (N = 71)

<table>
<thead>
<tr>
<th>Age</th>
<th>Medical Diagnostic</th>
<th>Total</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>KA</td>
<td>Gonore</td>
</tr>
<tr>
<td></td>
<td>f</td>
<td>%</td>
</tr>
<tr>
<td>14-16</td>
<td>2</td>
<td>2,81</td>
</tr>
<tr>
<td>17-25</td>
<td>23</td>
<td>32,39</td>
</tr>
<tr>
<td>26-35</td>
<td>13</td>
<td>18,3</td>
</tr>
<tr>
<td>36-45</td>
<td>5</td>
<td>1,04</td>
</tr>
<tr>
<td>Total</td>
<td>43</td>
<td>60,6</td>
</tr>
</tbody>
</table>

Table 1. Summarizes characteristics of age patients sexually transmitted infection. The result showed that the most at age groups 17-25 years in the diagnosis kondiloma akuminata about 23 respondents (32,39 %) and lowest age group is at age groups 12-16 years in the diagnosis gonorrhea, tricomoniais, and syphilis at the age of 36-45 years in the diagnosis tricomoniasis because not found respondents at age of and the diagnosis (0 %). Not found respondents with age >46 years.
**Table 2.** Cross Mate Medical Diagnostic Sexually Transmitted Infections Based On Educational Level At Polyclinic Dermato Venerology RSUP Dr. Sardjito Yogyakarta In 2015 (N = 71)

<table>
<thead>
<tr>
<th>Educational Level</th>
<th>Medical Diagnostic</th>
<th>Total</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>KA %</td>
<td>Gonore %</td>
</tr>
<tr>
<td>Uneducated</td>
<td>0 %</td>
<td>0 %</td>
</tr>
<tr>
<td>Primary School</td>
<td>1 %</td>
<td>1 %</td>
</tr>
<tr>
<td>Junior High School</td>
<td>1 %</td>
<td>1 %</td>
</tr>
<tr>
<td>High School</td>
<td>30 %</td>
<td>42,25 %</td>
</tr>
<tr>
<td>College</td>
<td>11 %</td>
<td>15,49 %</td>
</tr>
<tr>
<td>Total</td>
<td>43 %</td>
<td>60,6 %</td>
</tr>
</tbody>
</table>

Table 2. Showing characteristics of education patients sexually transmitted infection. The level of education patients sexually transmitted infection most were educated last senior high school in diagnose kondiloma akuminata that as many as 30 (42,25%) respondents.

**Table 3.** Cross Mate Medical Diagnostic Sexually Transmitted Infections Based On Occupation At Polyclinic Dermato Venerology RSUP Dr. Sardjito Yogyakarta In 2015 (N = 71)

<table>
<thead>
<tr>
<th>Occupation</th>
<th>Medical Diagnostic</th>
<th>Total</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>KA %</td>
<td>Gonore %</td>
</tr>
<tr>
<td>Government employees</td>
<td>1 %</td>
<td>1 %</td>
</tr>
<tr>
<td>Teacher</td>
<td>0 %</td>
<td>0 %</td>
</tr>
<tr>
<td>Entrepreneur</td>
<td>14 %</td>
<td>4,71 %</td>
</tr>
<tr>
<td>Farmer</td>
<td>0 %</td>
<td>1 %</td>
</tr>
<tr>
<td>Traders</td>
<td>1 %</td>
<td>1 %</td>
</tr>
<tr>
<td>Student</td>
<td>20 %</td>
<td>8 %</td>
</tr>
<tr>
<td>Other</td>
<td>0 %</td>
<td>3 %</td>
</tr>
<tr>
<td>Not Working</td>
<td>7 %</td>
<td>9,8 %</td>
</tr>
<tr>
<td>Total</td>
<td>43 %</td>
<td>60,6 %</td>
</tr>
</tbody>
</table>

Table 3. Showing characteristics of occupation sexually transmitted infection patient. More respondents work (84,5%) than does not work (15,4%). A high percentage of the highest is students in the diagnosis kondiloma akuminata with 20 (8,1%) of respondents. not found a sufferers sexually transmitted infection worked as a teacher.

**Table 4.** Cross Mate Medical Diagnostic Sexually Transmitted Infections Based On Maritality At Polyclinic Dermato Venerology RSUP Dr. Sardjito Yogyakarta In 2015 (N = 71)

<table>
<thead>
<tr>
<th>Maritality</th>
<th>Medical Diagnostic</th>
<th>Total</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>KA %</td>
<td>Gonore %</td>
</tr>
<tr>
<td>Married</td>
<td>13 %</td>
<td>18,3 %</td>
</tr>
<tr>
<td>Widow</td>
<td>0 %</td>
<td>0 %</td>
</tr>
<tr>
<td>Widower</td>
<td>0 %</td>
<td>0 %</td>
</tr>
<tr>
<td>Unmarried</td>
<td>30 %</td>
<td>42,25 %</td>
</tr>
<tr>
<td>Total</td>
<td>43 %</td>
<td>60,6 %</td>
</tr>
</tbody>
</table>

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Table 4. Showing characteristics marital status patients sexually transmitted infection. More respondents unmarried in the diagnosis kondiloma akuminata as many as 30 (42.25%). Not found respondents have been widowed and widower.

Tabel 5. Cross Mate Medical Diagnostic Sexually Transmitted Infections Based On Age Sexual Intercourse First at Polyclinic Dermato Venerology RSUP Dr. Sardjito Yogyakarta In 2015 (N = 71)

<table>
<thead>
<tr>
<th>Age sexual intercourse first</th>
<th>Medical Diagnostic</th>
<th>Total</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>KA</td>
<td>Gonore</td>
</tr>
<tr>
<td>f %</td>
<td>f %</td>
<td>f %</td>
</tr>
<tr>
<td>12-16</td>
<td>3</td>
<td>4,22</td>
</tr>
<tr>
<td>17-25</td>
<td>34</td>
<td>47,8</td>
</tr>
<tr>
<td>26-35</td>
<td>6</td>
<td>8,45</td>
</tr>
<tr>
<td>Total</td>
<td>43</td>
<td>60,6</td>
</tr>
</tbody>
</table>

Table 5. Show age sexual intercourse first. The percentage of sexual intercourse first is the age range of the highest 17-25 years in the diagnosis kondiloma akuminata that is about 34 (47.8%) respondents.

Tabel 6. Cross Mate Medical Diagnostic Sexually Transmitted Infections Based OnSexual Partner At Polyclinic Dermato Venerology RSUP Dr. Sardjito Yogyakarta In 2015 (N = 71)

<table>
<thead>
<tr>
<th>Total Sexual Partner</th>
<th>Medical Diagnostic</th>
<th>Total</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>KA</td>
<td>Gonore</td>
</tr>
<tr>
<td>f %</td>
<td>f %</td>
<td>f %</td>
</tr>
<tr>
<td>1</td>
<td>5</td>
<td>7,04</td>
</tr>
<tr>
<td>2</td>
<td>7</td>
<td>9,85</td>
</tr>
<tr>
<td>3</td>
<td>12</td>
<td>16,9</td>
</tr>
<tr>
<td>4</td>
<td>6</td>
<td>8,45</td>
</tr>
<tr>
<td>&gt;5</td>
<td>13</td>
<td>18,3</td>
</tr>
<tr>
<td>Total</td>
<td>43</td>
<td>60,6</td>
</tr>
</tbody>
</table>

Table 6. Indicating the number of sex partner until now. The percentage of the sexual partners highest sexual were partners more than five (> 5) to diagnose kondiloma akuminata of 13 (18,3%) respondents.

Tabel 7. Cross Mate Medical Diagnostic Sexually Transmitted Infections Based On Last Sexual Partner At Polyclinic Dermato Venerology RSUP Dr. Sardjito Yogyakarta In 2015 (N = 71)

<table>
<thead>
<tr>
<th>Last Sexual Partner</th>
<th>Medical Diagnostic</th>
<th>Total</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>KA</td>
<td>Gonore</td>
</tr>
<tr>
<td>f %</td>
<td>f %</td>
<td>f %</td>
</tr>
<tr>
<td>Wife/Husband</td>
<td>10</td>
<td>14,08</td>
</tr>
<tr>
<td>Prostitute</td>
<td>13</td>
<td>18,3</td>
</tr>
<tr>
<td>Other</td>
<td>20</td>
<td>28,1</td>
</tr>
<tr>
<td>Total</td>
<td>43</td>
<td>60,6</td>
</tr>
</tbody>
</table>

Table 7. Showing last sexual partner. Sexual partners most is with another (boyfriend, friend, homoseksual partner) On kondiloma akuminata diagnose as many as 20 (28,1%) of respondents.
### Table 8. Cross Mate Medical Diagnostic Sexually Transmitted Infections Based On Choice Sexual Intercourse At Polyclinic DermatoVenerology RSUP Dr. Sardjito Yogyakarta In 2015 (N = 71)

<table>
<thead>
<tr>
<th>Choice sexual intercourse</th>
<th>Medical Diagnostic</th>
<th>Total</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>KA</td>
<td>Gonore</td>
</tr>
<tr>
<td></td>
<td>f</td>
<td>%</td>
</tr>
<tr>
<td>Genital sex</td>
<td>31</td>
<td>43.66</td>
</tr>
<tr>
<td>Anal sex</td>
<td>10</td>
<td>14.08</td>
</tr>
<tr>
<td>Oral sex</td>
<td>2</td>
<td>2.81</td>
</tr>
<tr>
<td>Total</td>
<td>43</td>
<td>60.6</td>
</tr>
</tbody>
</table>

Table 8. Indicating an option in sexual intercourse a choice in sexual intercourse the most is genital in the diagnosis kondiloma akuminata 31 (43.66 %) of respondents.

### Table 9. Cross Mate Medical Diagnostic Sexually Transmitted Infections Based On Multiple Partner At Polyclinic Dermato Venerology RSUP Dr. Sardjito Yogyakarta In 2015 (N = 71)

<table>
<thead>
<tr>
<th>Multiple partner</th>
<th>Medical Diagnostic</th>
<th>Total</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>KA</td>
<td>Gonore</td>
</tr>
<tr>
<td></td>
<td>f</td>
<td>%</td>
</tr>
<tr>
<td>Yes</td>
<td>11</td>
<td>15.5</td>
</tr>
<tr>
<td>No</td>
<td>32</td>
<td>45.1</td>
</tr>
<tr>
<td>Total</td>
<td>43</td>
<td>60.6</td>
</tr>
</tbody>
</table>

Table 9. Showing multiple partner of sexually transmitted infection patient. Respondents were not having sexual multipartner to diagnose kondiloma akuminata about 32 (45.07 %) respondents.

### Table 10. Cross Mate Medical Diagnostic Sexually Transmitted Infections Based On Sexual Orientation At Polyclinic DermatoVenerology RSUP Dr. Sardjito Yogyakarta In 2015 (N = 71)

<table>
<thead>
<tr>
<th>Sexual Orientation</th>
<th>Medical Diagnostic</th>
<th>Total</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>KA</td>
<td>Gonore</td>
</tr>
<tr>
<td></td>
<td>f</td>
<td>%</td>
</tr>
<tr>
<td>Homoseksual</td>
<td>10</td>
<td>14.08</td>
</tr>
<tr>
<td>Heteroseksual</td>
<td>33</td>
<td>46.4</td>
</tr>
<tr>
<td>Biseksual</td>
<td>0</td>
<td>0</td>
</tr>
<tr>
<td>Jumlah</td>
<td>43</td>
<td>60.56</td>
</tr>
</tbody>
</table>

Table 10. Shows a sexual orientation patients sexually transmitted infection. A sexual orientation most is heterosexual to diagnose kondiloma akuminata about 33 (46.4 %) respondents.
Tabel 11. Cross Mate Medical Diagnostic Sexually Transmitted Infections Based On Discharging Condoms At Polyclinic DermatoVenerology RSUP Dr. Sardjito Yogyakarta In 2015 (N = 71)

<table>
<thead>
<tr>
<th>Discharging Condoms</th>
<th>Medical Diagnostic</th>
<th>Total</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>KA</td>
<td>Gonore</td>
</tr>
<tr>
<td>Yes</td>
<td>6</td>
<td>8,6</td>
</tr>
<tr>
<td>No</td>
<td>37</td>
<td>52</td>
</tr>
<tr>
<td>Total</td>
<td>43</td>
<td>60,6</td>
</tr>
</tbody>
</table>

Table 11. Shows the use of condoms patients sexually transmitted infection. Patients sexually transmitted infection most does not use condom during a sexual intercourse on the diagnosis kondiloma akuminata about 37 (52,11 %) respondents.

Tabel 12. Frequency Distribution Based On Disease In People With Sexually Transmitted Infections At Polyclinic DermatoVenerology RSUP Dr. Sardjito Yogyakarta In 2015 (N = 71)

<table>
<thead>
<tr>
<th>Disease</th>
<th>Frequency</th>
<th>Percentage</th>
</tr>
</thead>
<tbody>
<tr>
<td>a. Kondiloma Akuminata</td>
<td>43</td>
<td>60,56%</td>
</tr>
<tr>
<td>b. Gonore</td>
<td>18</td>
<td>25,35%</td>
</tr>
<tr>
<td>c. Tricomoniasis</td>
<td>4</td>
<td>5,63%</td>
</tr>
<tr>
<td>d. Sifilis</td>
<td>6</td>
<td>8,45%</td>
</tr>
<tr>
<td>Total</td>
<td>71</td>
<td>100</td>
</tr>
</tbody>
</table>

Table 12. Indicates the type of sexually transmitted infection found in polyclinic dermatovenerology RSUP Dr. Sardjito Yogyakarta. Respondents with the diagnosis kondiloma akuminata more than the other with the number of 43 (60,56 %) of respondents.

DISCUSSION

Based on the characteristics of age, age group STIs most patients are 17-25 year. This is consistent with a theory of BKKBNin 2006 that 20-34 years in man and age 16-24 years in women are in a high risk, because at that age intensity sexual intercourse relatively high. This research result according to research conducted by Benedick (2011). In Benedick research the result was obtained on sexually transmitted infection mostly comes from the age range of the 17-25 the year with total 21,4 %.

Based on characteristic of education level, most STIs patients educated high school. This research consistent to the theory that the absence of sex education since they early age and the absence of special subjects and provide information for other students in high school, also be the cause of the high STIs among teenagers.

Based on occupation characteristics, more patients STIs work as students. The result of this research in line with the theory that obstacles thing is precisely how to deal with the view that everything that smells sex is taboo to mention envy by the unmarried, because teenagers often feel uncomfortable or taboo to discuss the problem of sexuality and reproduction health. But because of a curious they will strive to get this information. Often teenager feel that his parents refuses to talk about sexual problems and so they find an alternative any other source of information like friends or mass media.

Based on characteristic of marriage, most patients STIs is unmarried. This is consistent with the theory that respondents married sexual needs met with the couple, While the unmarried sexual needs not been fulfilled because they have not yet have a partner legitimate. There are also some respondents who had been married and suffer the
sexually transmitted infection because this group has larger factor to transmit or contracting a sexually transmitted infection. Based of the activity sexual intercourse, age sexual intercourse patients STIs the most is age group 17-25 years. This is consistent with the theory that said HPV more often attacks the body mucous, while at the age of the teenager reproductive organs tend to undeveloped so with perfect span infected by a virus. Based on the sexual partners most is sexual partners more than five (>5). This is in consistent with the theory according to satria (2009) that sexual partners many/more than 1 increases the risk of affected by sexually transmitted infection. Based on last sexual partner patients STIs the most is other (boyfriend, friends, partner homosexual). The research was based on the theory that sexual intercourse only in pairs could still reduce the risk of sexually transmitted infection, moreover when before laboratory said the couple healthy. According to ministry of finance (2008) the prostitutes a group which is included in the category of risky contracting and develop sexually transmitted infection. Based on choices in sexual intercourse STIs most patients is by means of genital. This is consistent with the theory that oral sex and anal sex safer than sex activities involving genitals with genital (genito-genital). Nevertheless, oral sex and anal sex not always secure as risk contracting diseases persists. Based on multipartner patients STIs the most is not doing multipartner. This is not consistent with theory according to Hernawati (2005) in Hartono (2009) said having sexual partners in average more than 5 couples and without using condoms, very high risk in the spread of sexually transmitted infection. Based on a sexual orientation patients STIs the most is heterosexual orientation. It is not consistent with the theory presented by Daili (2010) that homosexual characterizes the high risk of transmission of sexually transmitted infection. In addition, homosexual man risk having contracting sexually transmitted infection greater than heterosexual man, especially through sexual behavior risky, namely sex with more than a partner and anal sex. Based on the use of condom, many patients STIs does not use condom when sexual intercourse. This is consistent with the research conducted by Saiffudin (2006) indicating that most of the sexually transmitted infection does not use condom when sexual intercourse that is about 94,1%. This is because condoms make sexual intercourse become less spontaneous and reduce sexual sensation especially in the male and even more on a married couple. Based on types of disease the most is a kind of Kondiloma akuminata. This is not according to the theory Behrman (2009) that gonorrhea is a sexually transmitted infection most often happen all of the 20th century.

CONCLUSION

Based on the analysis and discussion of research, So the conclusion is as follows:
1. The age of patients the sexually transmitted infection is the age range of the 17-25 year.
2. Education patients sexually transmitted infection most is respondents educated last high school.
3. Occupation patients sexually transmitted infection the most is students
4. Marital status patients a sexually transmitted infection the most is unmarried.
5. The outcomes sexual intercourse is as follows:
   a. The age of sexual intercourse first among sexually transmitted infection most range of 17-25 age.
   b. Partner sexual until now in people with sexually transmitted infection the most >5
   c. Sexual partners the latest in a sexually transmitted infection most is with another (boyfriend, friends, homosexual partner).
d. A choice in sexual intercourse in people with sexually transmitted infection the most was to genital.
e. Patients sexually transmitted infection many which do not multipartner.
6. Sexually transmitted infections prevalent in respondents were not use a condom when sexual intercourse.
7. The diagnosis / types of disease in people with a sexually transmitted infection the most is kondiloma akuminata

REFERENCE
