PERNYATAAN KEASLIAN TULISAN

Yang bertanda tangan di bawah ini saya:

| Nama | : Nurwasilah |
|---------------|--|
| NPM | : 20700134 |
| Program Studi | : Pendidikan Dokter |
| | Fakultas Kedokteran Universitas Wijava Kusuma Surabaya |

menyatakan dengan sebenarnya bahwa Skripsi yang saya tulis dengan judul "Hubungan Antara Tingkat Pendidikan Ibu dan Pendapatan Keluarga Terhadap Kejadian Stunting Pada Balita di Puskesmas Kota Madiun", benar-benar hasil karya saya sendiri, bukan merupakan pengambilalihan tulisan atau pikiran orang lain yang saya akui sebagai tulisan atau pikiran saya sendiri. Apabila di kemudian hari dapat dibuktikan bahwa Skripsi ini adalah hasil jiplakan, maka saya bersedia menerima sanksi atas perbuatan tersebut.

> Surabaya, 15 Juli 2023 Yang membuat pernyataan,



KUESIONER DAN OBSERVASI PENELITIAN

HUBUNGAN ANTARA TINGKAT PENDIDIKAN IBU DAN

PENDAPATAN KELUARGA TERHADAP KEJADIAN STUNTING PADA

BALITA DI PUSKESMAS KOTA MADIUN

- A. IDENTITAS RESPONDEN
 - 1. Kode
 - 2. Umur Orangtua :
 - 3. Pekerjaan Orangtua :
 - 4. Jenis Kelamin Balita :
 - 5. Umur Balita :

B. TINGKAT PENDAPATAN KELUARGA

Pendapatan Keluarga perbulanan : Rp.

:

- 1. < Rp2.190.216
- 2. \geq Rp2.190.216

C. TINGKAT PENDIDIKAN IBU

Tingkat Pendidikan terakhir ibu :

- 1. Tidak Sekolah
- 2. SD
- 3. SMP / Sederajat
- 4. SMA / Sederajat
- 5. Diploma/Perguruan tinggi

PENGANTAR KUESIONER

| Judul penelitian | : Hubungan antara Tingkat Pendidikan Ibu dan Pendapatan Keluarga terhadap Kejadian Stunting pada |
|------------------|---|
| | Balita di Puskesmas Kota Madiun |
| Peneliti | : Nurwasilah |
| | (Nomor telepon yang dapat dihubungi: 082157418818) |
| Pembimbing | : Dr. dr. Sukma Sahadewa, M.Kes., S.H., M.H., S.Sos., |
| | CLA., FISPH., FISCM dan dr. Hj. Andiani, M.Kes |

Ibu-ibu penduduk di Kota Madiun yang terhormat,

Saya adalah Mahasiswa Semester V Fakultas Kedokteran Universitas Wijaya Kusuma Surabaya. Untuk menyelesaikan Skripsi, saya bermaksud untuk mengadakan penelitian dengan judul "Hubungan antara Tingkat Pendidikan Ibu dan Pendapatan Keluarga terhadap Kejadian *Stunting* pada Balita di Puskesmas Kota Madiun".

Saya berkeyakinan bahwa penelitian ini memiliki manfaat yang sangat berguna untuk mengatasi kejadian *Stunting* yang diderita oleh balita di kota ini. Oleh sebab itu, saya berharap kesediaan ibu-ibu untuk menjadi responden dalam penelitian ini.

Apabila ibu sekalian bersedia kami mohon kesediaannya untuk menandatangani persetujuan menjadi subyek penelitian.

Atas perhatian dan kerjasama ibu-ibu saya ucapkan terima kasih.

Madiun, Marct 2023

Peneliti,

(Nurwasilah) NPM : 20700134

Mengetahui :

Pembimbing Utama,

(Dr. dr/Sukma Sahadewa, M.Kes., S.H., M.H., S.Sos., CLA., FISPH., FISCM) NIK. 10434-ET Pembimbing Pendamping,

dr. Hj. Andiani, M.Kes NIK. 12700-ET

SURAT PERSETUJUAN MENJADI RESPONDEN/SUBYEK

PENELITIAN

(Informed consent)

Kami persetujuan ibu untuk meminta menjadi bagian sebagai subyek/responden dalam suatu penelitian berjudul "Hubungan antara Tingkat Pendidikan Ibu dan Pendapatan Keluarga terhadap Kejadian Stunting pada Balita di Puskesmas Kota Madiun". Penelitian ini bertujuan untuk mengetahui hubungan antara tingkat pendidikan ibu dan pendapatan keluarga terhadap kejadian Stunting pada balita di Puskesmas Kota Madiun. Stunting adalah salah satu jenis masalah kekurangan gizi kronis yang terjadi ketika makanan yang diberikan tidak cukup untuk memenuhi kebutuhan gizi seseorang dalam jangka waktu yang lama. Tingkat pendidikan ibu dapat mempengaruhi keputusan ibu untuk mengalokasikan sumber daya keluarga. Selain itu, pendapatan keluarga yang tinggi dapat memenuhi kebutuhan keluarga terutama kebutuhan pangan yang beragam sehingga asupan pangan untuk anak balita terpenuhi. Kondisi ini akan berpengaruh pada peningkatan kualitas konsumsi makanan anggota keluarga dan menjadi gambaran penilaian gizi yang baik.

Ibu akan diminta untuk mengisi lembar kuesioner yang berisi pertanyaan tentang pendidikan terakhir ibu dan pendapatan keluarga apabila ibu bersedia untuk terlibat dalam penelitian ini.

Catatan mengenai data penelitian akan dirahasiakan, dan kerahasiaannya akan dijamin. Informasi mengenai identitas Ibu tidak akan ditulis pada instrumen penelitian atau tidak dipublikasikan dan akan tersimpan secara terpisah di tempat yang aman..

Untuk menjadi bagian dari penelitian ini adalah hak pribadi dan tidak ada unsur paksaan, karena Ibu berhak menolak untuk berperan sebagai responden atau mengundurkan diri setiap saat tanpa adanya sanksi atau kehilangan hak-hak Ibu. Penelitian ini tidak memungut biaya apapun dari Ibu.

Jika ada pertanyaan, masalah atau ketidakpuasan dalam pelaksanaan penelitian ini, Ibu dapat menghubungi Dr. dr. Sukma Sahadewa, M.Kes., S.H., M.H., S.Sos dan dr. Hj. Andiani, M.Kes. (Bagian Ilmu Kesehatan Masyarakat), Fakultas Kedokteran Universitas Wijaya Kusuma Surabaya yang dengan senang hati akan menjawab pertanyaan dan permasalahan Anda. Nomor telepon yang bisa Anda hubungi adalah 082157418818

Saya telah membaca atau dibacakan apa yang tertera di atas dan saya telah diberi kesempatan untuk mengajukan pertanyaan berkaitan dengan proyek penelitian ini kepada anggota tim peneliti. Saya memahami tujuan, prosedur dan risiko penelitian ini. Dengan membubuhkan tanda tangan saya di bawah ini, saya menegaskan keikutsertaan saya secara sukarela dalam proyek penelitian ini. Saya menerima tembusan surat persetujuan ini.

Setelah mendengar dan memahami penjelasan tentang prosedur penelitian, dengan <u>ini saya</u>/ <u>mewakili keluarga saya</u> *) menyatakan;

SETUJU/TIDAK SETUJU *)

Untuk ikut sebagai responden/subyek penelitian.

Madiun,

Saksi :

| Nama terang | : | Nama terang | : |
|--------------|---|--------------|---|
| Alamat | : | Alamat | : |
| Tanda tangan | : | Tanda tangan | : |
| | | | |

Keterangan:

*) Coret salah satu (mewakili keluarga apabila subyek penelitian adalah ANAK)

**) Coret salah satu

PERNYATAAN TELAH MELAKSANAKAN INFORMED CONSENT

Yang bertanda tangan di bawah ini saya:

| Nama | : Nurwasilah |
|---------------|--|
| NPM | : 20700134 |
| Program Studi | : Pendidikan Dokter |
| | Fakultas Kedokteran Universitas Wijaya Kusuma Surabaya |

menyatakan bahwa saya telah melaksanakan proses pengambilan data penelitian

sesuai dengan yangdisetujui pembimbing dan telah memperoleh pernyataan

kesediaan dan persetujuan dari responden sebagai sumber data.

Surabaya, 25 March 2023

Yang membuat pernyataan,

(Nurwasilah) NPM : 20700134

Mengetahui:

Pembimbing Utama Penelitian

Pembimbing Pendamping Penelitian FK,

(Dr. dr. Sukma Sahadewa, M.Kes., S.H., M.H., S.Sos., CLA., FISPH., FISCM) NIK. 10434-ET

(dr. Hj. Andiani, M.Kes) NIK. 12700-ET

SURAT KETERANGAN LAIK ETIK



OUTPUT SPSS

A. Hasil Analisis Univariat

1. Kejadian Stunting

| | | | | Valid | Cumulative |
|-------|-------------------|-----------|---------|---------|------------|
| | | Frequency | Percent | Percent | Percent |
| Valid | Stunting | 17 | 50.0 | 50.0 | 50.0 |
| | Tidak stunting | 17 | 50.0 | 50.0 | 100.0 |
| | Total | 34 | 100.0 | 100.0 | |

Kejadian Stunting PB/U

2. Usia Balita

| | | Usia | | | |
|-------|------------|-----------|---------|---------|----------|
| | | | | | Cumulati |
| | | | | Valid | ve |
| | | Frequency | Percent | Percent | Percent |
| Valid | < 12 bulan | 23 | 67.6 | 67.6 | 67.6 |
| | ≥ 12 Bulan | 11 | 32.4 | 32.4 | 100.0 |
| | Total | 34 | 100.0 | 100.0 | |

3. Jenis Kelamin Balita

| | | Jenis kela | min | | |
|-------|-----------|------------|---------|---------|-----------|
| | | | | Valid | Cumulativ |
| | | Frequency | Percent | Percent | e Percent |
| Valid | Perempuan | 20 | 58.8 | 58.8 | 58.8 |
| | Laki-laki | 14 | 41.2 | 41.2 | 100.0 |
| | Total | 34 | 100.0 | 100.0 | |

4. Pekerjaan Ibu

| Pekerjaan Ibu | | | | | | | |
|-----------------------------------|---------|----|-------|-------|-------|--|--|
| Valid Cur | | | | | | | |
| Frequency Percent Percent Percent | | | | | | | |
| Valid | Bekerja | 12 | 35.3 | 35.3 | 35.3 | | |
| | Tidak | 22 | 64.7 | 64.7 | 100.0 | | |
| | Bekerja | | | | | | |
| | Total | 34 | 100.0 | 100.0 | | | |

5. Tingkat Pendidikan Ibu

| | Tingkat Pendidikan Ibu | | | | | | |
|-------|------------------------|-----------|---------|---------|------------|--|--|
| | | | | Valid | Cumulative | | |
| | | Frequency | Percent | Percent | Percent | | |
| Valid | Pendidikan rendah | 13 | 38.2 | 38.2 | 38.2 | | |
| | Pendidikan tinggi | 21 | 61.8 | 61.8 | 100.0 | | |
| | Total | 34 | 100.0 | 100.0 | | | |

6. Tingkat Pendapatan Keluarga

Tingkat Pendapatan Keluarga Valid Cumulative Frequency Percent Percent Percent Valid < UMK 5 14.7 14.7 14.7 ≥ UMK 85.3 85.3 100.0 29 Total 34 100.0 100.0

7. Tingkat Pendidikan dan Tingkat Pendapatan Keluarga Terhadap Kelompok Stunting

| Faktor Risiko | | | | | | | | |
|---------------|--------------------------|-----------|---------|---------|---------|--|--|--|
| | Valid Cum | | | | | | | |
| | | Frequency | Percent | Percent | Percent | | | |
| Valid | berisiko tinggi (<3) | 3 | 8.8 | 8.8 | 8.8 | | | |
| | berisiko rendah (>=3) | 31 | 91.2 | 91.2 | 100.0 | | | |
| | Total | 34 | 100.0 | 100.0 | | | | |

- B. Hasil Analisis Bivariat
 - 1. Hubungan antara tingkat pendidikan ibu dengan kejadian Stunting

Crosstabs

Case Processing Summary

| | | Cases | | | | |
|------------|----|---------|---------------|---------|----|---------|
| | | Valid | Missing Total | | | |
| | Ν | Percent | Ν | Percent | Ν | Percent |
| Tingkat | 34 | 100.0% | 0 | 0.0% | 34 | 100.0% |
| Pendidikan | | | | | | |
| * Stunting | | | | | | |

Tingkat Pendidikan * Stunting Crosstabulation

Count

| | | Stun | Stunting | | | | |
|------------|--------|----------|----------|-------|--|--|--|
| | | | Tidak | | | | |
| | | Stunting | stunting | Total | | | |
| Tingkat | Rendah | 8 | 5 | 13 | | | |
| Pendidikan | Tinggi | 9 | 12 | 21 | | | |
| Total | | 17 | 17 | 34 | | | |

| Chi-Square Tests | | | | | | |
|-------------------------|-------|----|--------------|----------|----------|--|
| | | | Asymptotic | Exact | Exact | |
| | | | Significance | Sig. (2- | Sig. (1- | |
| | Value | df | (2-sided) | sided) | sided) | |
| Pearson Chi- | 1.121 | 1 | .290 | | | |
| Square | а | | | | | |
| Continuity | .498 | 1 | .480 | | | |
| Correction ^b | | | | | | |
| Likelihood Ratio | 1.129 | 1 | .288 | | | |
| Fisher's Exact | | | | .481 | .241 | |
| Test | | | | | | |
| Linear-by-Linear | 1.088 | 1 | .297 | | | |
| Association | | | | | | |
| N of Valid | 34 | | | | | |
| Cases | | | | | | |

a. 0 cells (,0%) have expected count less than 5. The minimum expected count is 6,50.

b. Computed only for a 2x2 table

2. Hubungan antara tingkat pendapatan keluarga dengan kejadian Stunting

Crosstabs

Case Processing Summary

| | Cases | | | | | |
|--------------|-------|---------|---------|---------|-------|---------|
| | Valid | | Missing | | Total | |
| | Ν | Percent | Ν | Percent | Ν | Percent |
| Tingkat | 34 | 100.0% | 0 | 0.0% | 34 | 100.0% |
| Pendapatan * | | | | | | |
| Stunting | | | | | | |

Tingkat Pendapatan * Stunting Crosstabulation Count

| | | Stu | Stunting | | |
|------------|--------|----------|----------|-------|--|
| | | Tidak | | | |
| | | Stunting | stunting | Total | |
| Tingkat | < UMK | 2 | 3 | 5 | |
| Pendapatan | >= UMK | 15 | 14 | 29 | |
| Total | | 17 | 17 | 34 | |

| Chi-Square Tests | | | | | | |
|---------------------------------------|-------------------|----|----------------------------|----------------------|------------|--|
| | Value | df | Asymptotic Significance | Exact Sig. (2- | Exact Sig. | |
| Pearson Chi- Square | .234 ^a | 1 | .628 | 51000) | (1 51000) | |
| Continuity Correction ^b | .000 | 1 | 1.000 | | | |
| Likelihood Ratio | .236 | 1 | .627 | | | |
| Fisher's Exact Test | | | | 1.000 | .500 | |
| Linear-by-Linear Association | .228 | 1 | .633 | | | |
| N of Valid Cases | 34 | | | | | |

a. 2 cells (50,0%) have expected count less than 5. The minimum expected count is 2,50.

b. Computed only for a 2x2 table

3. Hubungan antara tingkat pendidikan ibu dan pendapatan keluarga dengan

kejadian Stunting

Crosstabs

| Case Processing Summary | | | | | | | |
|-------------------------|----|---------|----|---------|-------|---------|--|
| Cases | | | | | | | |
| | ١ | Valid | Mi | ssing | Total | | |
| | Ν | Percent | Ν | Percent | Ν | Percent | |
| Faktor Risiko * | 34 | 100.0% | 0 | 0.0% | 34 | 100.0% | |
| Kejadian | | | | | | | |
| Stunting | | | | | | | |

104

| | | | Kejadiar | n Stunting | |
|--------|----------|---------------|----------|------------|--------|
| | | | | Tidak | |
| | | | Stunting | Stunting | Total |
| Faktor | berisiko | Count | 2 | 1 | 3 |
| Risiko | tinggi | % within | 66.7% | 33.3% | 100.0% |
| | (<3) | Faktor Risiko | | | |
| | | % within | 11.8% | 5.9% | 8.8% |
| | | Kejadian | | | |
| | | Stunting | | | |
| | | % of Total | 5.9% | 2.9% | 8.8% |
| | berisiko | Count | 15 | 16 | 31 |
| | rendah | % within | 48.4% | 51.6% | 100.0% |
| | (>=3) | Faktor Risiko | | | |
| | | % within | 88.2% | 94.1% | 91.2% |
| | | Kejadian | | | |
| | | Stunting | | | |
| | | % of Total | 44.1% | 47.1% | 91.2% |
| Total | | Count | 17 | 17 | 34 |
| | | % within | 50.0% | 50.0% | 100.0% |
| | | Faktor Risiko | | | |
| | | % within | 100.0% | 100.0% | 100.0% |
| | | Kejadian | | | |
| | | Stunting | | | |
| | | % of Total | 50.0% | 50.0% | 100.0% |

Faktor Risiko * Kejadian Stunting Crosstabulation

Chi-Square Tests

| | | | Asymptotic Significance | Exact Sig. (2- | Exact Sig. (1- |
|---------------------------------------|-------|----|----------------------------|-------------------|-------------------|
| | Value | df | (2-sided) | sided) | sided) |
| Pearson Chi- Square | .366ª | 1 | .545 | | |
| Continuity Correction ^b | .000 | 1 | 1.000 | | |
| Likelihood Ratio | .372 | 1 | .542 | | |
| Fisher's Exact Test | | | | 1.000 | .500 |

| Linear-by-Linear | .355 | 1 | .551 | |
|------------------|------|---|------|--|
| Association | | | | |
| N of Valid | 34 | | | |
| Cases | | | | |

a. 2 cells (50.0%) have expected count less than 5. The minimum expected count is 1.50.

b. Computed only for a 2x2 table

| SIMILARI | % TY INDEX | 14% | 8% PUBLICATIONS | 9% STUDENT PAPERS |
|--------------------|------------------------------|----------------|--------------------|----------------------|
| PRIMARY S | OURCES | | | |
| 1 | repositor | y.stikes-bhm.a | ac.id | 3% |
| 2 | jurnal.um | n-palembang.a | c.id | 2% |
| 3 | idoc.pub | | | 1 % |
| 4 | eprints.u | mm.ac.id | | 1 % |
| 5 | CORE.AC.U | k | | 1 % |
| 6 | repositor | y.itspku.ac.id | | 1% |
| 7 | ojsstikes Internet Source | panyuwangi.co | om | 1 % |
| 8 | repositor | y.poltekkes-ko | li.ac.id | 1 % |
| 9 | Submitte Student Paper | d to UIN Walis | ongo | 1 % |
| 10 | es.scribd | .com | | 1 % |
| 11 | docplaye | r.info | | 1 % |
| Exclude Exclude | quotes bibliography | Off | Exclude matches | < 1% |

HASIL TES PLAGIASI

SURAT IJIN PENELITIAN

| The second second | UNIVERS FL UNIT PENELIT Sekretariat : Jla. Dakab W | YAYASAN WIJAYA KUSUMA ITAS WIJAYA KUSUMA SURABAYA AKULTAS KEDOKTERAN IIAN, PENGABDIAN MASYARAKAT DAN PUBLIKASI I Kupang XXV/54, Surabaya Telp. (031) 5686531-5614001 Fax. (031) 5686531 ebuite : http/www.uwki.ac.id E-mail : <u>fk@fk.uwki.ac.id</u> |
|-------------------|--|--|
| | | Surabaya, 27 Februari 2023 |
| Ne La Pe | o :014/UP3/FK/ ampiran :- rihal :Permohonan) | UWKS/I/2023 Ijin permintaan data pendahuluan |
| Ke | epada: th. Kanala Dinas Kasahatan | Kota Madium |
| п | Ringroad Barat Kota Mad | inn |
| Ja. Ta | wa Timur | , |
| | | |
| Da Ui | engan hormat, Sehubungan dengan p niversitas Wijaya Kusuma S | elaksanaan skripsi Tugas Akhir (TA) di Fakultas Kedokteran Surabaya, maka dengan ini mohon bagi mahasiswa kami yaitu |
| N | ama | : Nurwasilah |
| N | PM | : 20700134 |
| Te | empat/Tanggal Lahir | : Cianjur, 10 Maret 2002 |
| Ju | dul Proposal | : Hubungan antara Pendidikan Ibu dan Pendapatan Keluarga |
| | | terhadap Kejadian Stunting pada Balita di Kota Madiun. |
| w | 'aktu Penelitian | : Februari – Maret 2023 |
| Di ke | iijinkan untuk mendapatka giatan skripsi tugas akhir te | an data di Dinas Kesehatan Kota Madiun, untuk menunjang rsebut. |
| D | emikian permohonan kami, | dan atas perhatian dan bantuannya kami ucapkan terima kasih. |
| | | Hormat Kami, a.n. Dekan, Wakil Dekan Bidang Akademik |
| | | TO SUMA SUPER A |
| | | dr. Inawati.,M.Kes |
| | | |
| | | |
| | | |



YAYASAN WIJAYA KUSUMA UNIVERSITAS WIJAYA KUSUMA SURABAYA FAKULTAS KEDOKTERAN UNIT PENELITIAN, PENGABDIAN MASYARAKAT DAN PUBLIKASI

Sekretariat : Jh. Dukuh Kupang XXV/54, Surabaya Telp. (031) 5686531-5614001 Fax. (031) 5686531 Website : http:/www.uwks.ac.id E-mail : <u>fk@fk.uwks.ac.id</u>.

Surabaya, 27 Februari 2023

No Lampiran Perihal

:014/UP3/FK/UWKS/I/2023

: Permohonan Ijin permintaan data pendahuluan

Kepada:

Yth. Kepala Bakesabangpol Kota Madiun

Jl. Mayor Jend. Di Panjaitan No.17, Banjarejo, Kec. Taman

Kota Madiun, Jawa Timur 63137

:-

Dengan hormat,

Sehubungan dengan pelaksanaan skripsi Tugas Akhir (TA) di Fakultas Kedokteran Universitas Wijaya Kusuma Surabaya, maka dengan ini mohon bagi mahasiswa kami yaitu

| Nama | : Nurwasilah |
|----------------------|--|
| NPM | : 20700134 |
| Tempat/Tanggal Lahir | : Cianjur, 10 Maret 2002 |
| Judul Proposal | : Hubungan antara Pendidikan Ibu dan Pendapatan Keluarga |
| | terhadap Kejadian Stunting pada Balita di Kota Madiun. |
| | |
| Waktu Penelitian | : Februari – Maret 2023 |

Diijinkan untuk mendapatkan data di Puskesmas Demangan, Puskesmas Manguharjo, Puskesmas Ngegong, kota Madiun untuk menunjang kegiatan skripsi tugas akhir tersebut.

Demikian permohonan kami, dan atas perhatian dan bantuannya kami ucapkan terima kasih.

Hormat Kami, a.n. Dekan, Wakil Dekan Bidang Akademik





YAYASAN WIJAYA KUSUMA UNIVERSITAS WIJAYA KUSUMA SURABAYA FAKULTAS KEDOKTERAN

UNIT PENELITIAN, PENGABDIAN MASYARAKAT DAN PUBLIKASI Sekretariat : Jln. Dukuh Kupang XXV/54, Surabaya Telp. (031) 5686531-5614001 Fax. (031) 5686531 Website : http:/www.uwks.ac.id E-mail : <u>flc@fk.uwks.ac.id</u>.

Surabaya, 27 Februari 2023

No :014/UP3/FK/UWKS/I/2023 Lampiran :-Perihal : Permohonan Ijin permintaan data pendahuluan

Kepada:

Yth. Kepala Puskesmas Ngegong

Jl. Keningar, Ngegong, Kec. Manguharjo,

Kota Madiun, Jawa Timur 63125

Dengan hormat,

Sehubungan dengan pelaksanaan skripsi Tugas Akhir (TA) di Fakultas Kedokteran Universitas Wijaya Kusuma Surabaya, maka dengan ini mohon bagi mahasiswa kami yaitu

| Nama | : Nurwasilah | | |
|----------------------|--|--|--|
| NPM | : 20700134 | | |
| Tempat/Tanggal Lahir | : Cianjur, 10 Maret 2002 | | |
| Judul Proposal | : Hubungan antara Pendidikan Ibu dan Pendapatan Keluarga | | |
| | terhadap Kejadian Stunting pada Balita di Kota Madiun. | | |
| Waktu Penelitian | : Februari – Maret 2023 | | |

Diijinkan untuk mendapatkan data di Puskesmas Ngegong kota Maduin, untuk menunjang kegiatan skripsi tugas akhir tersebut.

Demikian permohonan kami, dan atas perhatian dan bantuannya kami ucapkan terima kasih.

Hormat Kami, a.n. Dekan, Wakil Dekan Bidang Akademik





YAYASAN WIJAYA KUSUMA UNIVERSITAS WIJAYA KUSUMA SURABAYA FAKULTAS KEDOKTERAN

UNIT PENELITIAN, PENGABDIAN MASYARAKAT DAN PUBLIKASI Sekretariat : Jin. Dukuh Kupang XXV/54, Surabaya Telp. (031) 5686531-5614001 Fax. (031) 5686531 Website : http/www.uwks.ac.id E-mail : <u>fk@fk.uwks.ac.id</u>.

Surabaya, 27 Februari 2023

No Lampiran Perihal

:014/UP3/FK/UWKS/I/2023

- -

: Permohonan Ijin permintaan data pendahuluan

Kepada:

Yth. Kepala Puskesmas Manguharjo

Jl. Gajah Mada No.124, Manguharjo, Kec. Manguharjo,

Kota Madiun, Jawa Timur 63127

Dengan hormat,

Sehubungan dengan pelaksanaan skripsi Tugas Akhir (TA) di Fakultas Kedokteran Universitas Wijaya Kusuma Surabaya, maka dengan ini mohon bagi mahasiswa kami yaitu

| Nama | : Nurwasilah |
|----------------------|--|
| NPM | : 20700134 |
| Tempat/Tanggal Lahir | : Cianjur, 10 Maret 2002 |
| Judul Proposal | : Hubungan antara Pendidikan Ibu dan Pendapatan Keluarga terhadap Kejadian Stunting pada Balita di Kota Madiun. |
| Waktu Penelitian | : Februari – Maret 2023 |

Diijinkan untuk mendapatkan data di Puskesmas Manguharjo kota Maduin, untuk menunjang kegiatan skripsi tugas akhir tersebut.

Demikian permohonan kami, dan atas perhatian dan bantuannya kami ucapkan terima kasih.

Hormat Kami, a.n. Dekan, Wakil Dekan Bidang Akademik





YAYASAN WIJAYA KUSUMA UNIVERSITAS WIJAYA KUSUMA SURABAYA FAKULTAS KEDOKTERAN

UNIT PENELITIAN, PENGABDIAN MASYARAKAT DAN PUBLIKASI Sekretariat : Jln. Dukuh Kupang XXV/54, Surabaya Telp. (031) 5686531-5614001 Fax. (031) 5686531 Website : http://www.uwks.ac.id E-mail : fk@fk.uwks.ac.id

Surabaya, 27 Februari 2023

No Lampiran :--Perihal

:014/UP3/FK/UWKS/I/2023

: Permohonan Ijin permintaan data pendahuluan

Kepada:

Yth. Kepala Puskesmas Demangan

Jl. Raya Ponorogo - Madiun No.47, Nambangan Kidul, Kec. Madiun,

Kota Madiun, Jawa Timur 63128

Dengan hormat,

Sehubungan dengan pelaksanaan skripsi Tugas Akhir (TA) di Fakultas Kedokteran Universitas Wijaya Kusuma Surabaya, maka dengan ini mohon bagi mahasiswa kami yaitu

| Nama | : Nurwasilah |
|----------------------|--|
| NPM | : 20700134 |
| Tempat/Tanggal Lahir | : Cianjur, 10 Maret 2002 |
| Judul Proposal | : Hubungan antara Pendidikan Ibu dan Pendapatan Keluarga |
| | terhadap Kejadian Stunting pada Balita di Kota Madiun. |
| Waktu Penelitian | : Februari – Maret 2023 |

Diijinkan untuk mendapatkan data di Puskesmas Demangan kota Maduin, untuk menunjang kegiatan skripsi tugas akhir tersebut.

Demikian permohonan kami, dan atas perhatian dan bantuannya kami ucapkan terima kasih.



| Kode | Edukasi Ibu | Pekerjan Ibu | Pendapatan Keluarga | Gender | Usia (Bulan)) | Tinggi Badan (cm) | Z- Score | Status Stunting |
|------|--------------------|-----------------|---|--------|------------------|----------------------|-------------|-----------------|
| A001 | Tamat SD/MI | bekerja | \geq UMK | Р | 6 | 63 | -1,27 | Tidak Stunting |
| A002 | Tamat SLTA/MA | tidak | \geq UMK | Р | 7 | 65 | -1 | Tidak Stunting |
| A003 | Tamat SLTP/MTSN | tidak | ≥UMK | р | 10 | 67 | -1,8 | Tidak Stunting |
| A004 | Tamat SLTP/MTSN | tidak | ≥UMK | Р | 12 | 74,5 | 0,19 | Tidak Stunting |
| A005 | Tamat PT | bekerja | \geq UMK | L | 15 | 77 | -0,84 | Tidak Stunting |
| A006 | Tamat SLTP/MTSN | tidak | <umk< td=""><td>Р</td><td>7</td><td>64</td><td>-1,43</td><td>Tidak Stunting</td></umk<> | Р | 7 | 64 | -1,43 | Tidak Stunting |
| A007 | Tamat SLTA/MA | tidak | \geq UMK | Р | 8 | 69 | 0,125 | Tidak Stunting |
| A008 | Tamat SLTP/MTSN | tidak | ≥UMK | L | 7 | 71 | 0,85 | Tidak Stunting |
| A009 | Tamat SLTA/MA | bekerja | \geq UMK | Р | 9 | 70 | -0,04 | Tidak Stunting |
| A010 | Tamat SLTA/MA | tidak | <umk< td=""><td>L</td><td>10</td><td>74</td><td>0,3</td><td>Tidak Stunting</td></umk<> | L | 10 | 74 | 0,3 | Tidak Stunting |
| A011 | Tamat PT | bekerja | \geq UMK | р | 9 | 66 | -1,7 | Tidak Stunting |
| A012 | Tamat PT | tidak | \geq UMK | Р | 7 | 65 | -1 | Tidak Stunting |
| A013 | Tamat SLTA/MA | tidak | \geq UMK | Р | 6 | 64 | -0,7 | Tidak Stunting |
| A014 | Tamat SLTA/MA | tidak | \geq UMK | Р | 7 | 66 | -0,56 | Tidak Stunting |
| A015 | Tamat SLTA/MA | tidak | \geq UMK | L | 4 | 64,5 | 0,28 | Tidak Stunting |
| A016 | Tamat SLTA/MA | tidak | <umk< td=""><td>L</td><td>10</td><td>71</td><td>-1</td><td>Tidak Stunting</td></umk<> | L | 10 | 71 | -1 | Tidak Stunting |
| A017 | Tamat SLTA/MA | tidak | \geq UMK | Р | 21 | 79,4 | -1,29 | Tidak Stunting |
| B001 | Tamat SLTA/MA | bekerja | ≥UMK | L | 12 | 70 | -2,4 | Stunting |
| B002 | Tamat SLTA/MA | bekerja | \geq UMK | Р | 12 | 67 | -2,69 | Stunting |
| B003 | Tamat SLTA/MA | tidak | \geq UMK | L | 16 | 72 | -3,34 | Stunting |
| B004 | Tamat SLTP/MTSN | tidak | ≥UMK | Р | 13 | 65 | -3,92 | Stunting |
| B005 | Tamat SLTP/MTSN | tidak | <umk< td=""><td>L</td><td>13</td><td>71</td><td>-2,45</td><td>Stunting</td></umk<> | L | 13 | 71 | -2,45 | Stunting |
| B006 | Tamat SLTP/MTSN | tidak | ≥UMK | L | 15 | 73 | -2,44 | Stunting |
| B007 | Tidak Sekolah | tidak | \geq UMK | Р | 13 | 66 | -3,5 | Stunting |
| B008 | Tidak Sekolah | tidak | \geq UMK | L | 7 | 63,5 | -2,59 | Stunting |
| B009 | Tamat SLTA/MA | tidak | \geq UMK | L | 13 | 71,5 | 2,25 | Stunting |
| B010 | Tamat SLTP/MTSN | bekerja | ≥UMK | Р | 5 | 50 | -6,36 | Stunting |
| B011 | Tamat SLTA/MA | tidak | \geq UMK | Р | 8 | 63 | -2,47 | Stunting |
| B012 | Tamat SLTA/MA | bekerja | \geq UMK | L | 5 | 49 | -8,04 | Stunting |
| B013 | Tamat PT | bekerja | \geq UMK | L | 6 | 62 | -2,6 | Stunting |
| B014 | Tamat PT | bekerja | \geq UMK | L | 4 | 59 | -2,3 | Stunting |
| B015 | Tamat SLTA/MA | tidak | \geq UMK | Р | 8 | 63 | -2,4 | Stunting |
| B016 | Tamat SLTP/MTSN | bekerja | ≥UMK | Р | 5 | 59 | -2,27 | Stunting |
| B017 | Tamat SD/MI | bekerja | <umk< td=""><td>Р</td><td>11</td><td>67</td><td>-2,32</td><td>Stunting</td></umk<> | Р | 11 | 67 | -2,32 | Stunting |

DATA MENTAH HASIL PENELITIAN

DOKUMENTASI









Lembar Konsultasi

| | | 14-11-2222 | Bulan : hJakstithes Tanggal | | | 09-11-2022 | Tanggal | a and the for | | 2236-11-12 | Bulan : hawefiltss | | -0000-01-tt | 2502-01-61 | Bulan : CK.J.S. M.S. Tanggal | | 2202-01-25 | 26- 10- 2022 | Bulan : .RK.ToB.E.F. Tanggal | Topik Pembahasan | NPM Judul Skripsi Dosen Pembimbing | Z | |
|--|--|--|--------------------------------|-------------------|------------------|------------------|---------------------|---|---|---|------------------------------------|---|---|---|----------------------------------|-----------------|-----------------|-----------------|----------------------------------|-------------------------|--|-----------------|---|
| Kerangka konsep studi literatur/penelitian dan hipotesisnya | Kerangka konsep studi literatur/penelitian dan hipotesisnya | Kerangka konsep studi literatur/penelitian dan hipotesisnya | Topik pembahasan V | Tinjauan pustaka | Tinjauan pustaka | Tinjauan pustaka | Topik pembahasan IV | Latar belakang penelihan/ Studi Literatur | Latar belakang penelitian/Studi Literatur | Latar belakang penelitian/Studi Literatur | Topik pembahasan III | Pemilihan variabel penelitian/Studi Literatur | Pemilihan variabel penelitian/Studi Literatur | Penulihan variabel penelitian/Studi Literatur | Topik pembahasan II | Pengajuan judul | Pengajuan judul | Pengajuan judul | Topik pembahasan I | | 3:5764159 HUBURIGAN ANTARA TINGKAT DEMGAN KEJARIAN STUNTANG RARA | . LUURWASILAH | UNIT PEN JIn. Du |
| | / . ~ | board | Dosen Rembimbing | 4 | / 1/M/1/ | N MM | Dosen Pembimbing | Tanda Tangan | 1 100 (| Jos C | I anda I angan Dosen Pembimbing | | F | | Tanda Tangan Dosen Pembimbing | | ł | | Tanda Tangan Dosen Pembimbing | | PENDIDIKAN IBU D | LEMBAR KON | FAKULTAS FAKULTAS ELITIAN, PENGABDL kuh Kupang XXV/54, S |
| | | 02-12-2022 | Tanggal | Bullerin Desember | | 33-11-2022 | Tanggal | Bulan : Woysonbas | | 25-11-2222 | Tanggal | · Lubako | | 2202-11-12 | Bulan : M9X@Mass Tanggal | | | 16-11-222 | Bulan : kiwitrila se Tanggal | Alternatit Topik Pemban | on PENDAPATAN KEU Adiwa | SULTASI SKRIPSI | KEDOKTERAN AN MASYARAKAT DAY urabaya Telp/Fax. 568653 |
| | | | Topik pembahasan V | | | | Lopik pembanasan Lv | | | | Topik pembahasan III | | | | Topik pembahasan II | | | | Topik pembahasan I | asan | ung Contraction (Mandiri / Utama / Pendamping) | | V PUBLIKASI 1-5614001 |
| | / - 1- | Marx | Dosen Pembimbing | /Tanda Tangan | 11/11/2 C | Y WW Y | Dosen Rembimbing | / Tanda Tangan | 10110- | 14 11 0 | Dosen Rembinding | Trady Transm | 1UMUV | X A | Dosen Pembimbing | | I VIN / | 17421 | Dosen Pempimbing | Tanda Tangan | | Form TA 05 | |

| WAYASAN WIJAYA KUSUMA SUKABAYA FAKULTAS KUSUMA SUKABAYA FORM PENELITIAN, PENGABUAN MASYARAAT DAN PUBLIKASI Jah. Dukuh Kupang XXV/54, Surabaya Tely/Fax. 5666531-664400 Imagai Tanda Tangan Tangai Tanda Tangan Tangai Medel penelitan/Sudi Literatur Doen Penalitan/Sudi Literatur Doen Penalitan/Sudi Literatur Medel penelitan/Sudi Literatur Doen Penalitan/Sudi Literatur Tanga Tangan Topik penelitan/Sudi Literatur Doen Penalitan/Sudi Literatur Topik pentbahasan VII Topik penelitan/Sudi Literatur dan pentbahasan Tanga Tangan Topik pentbahasan (VII) Tanga Tangan Topik pentbahasan (VII) Tanga Tangan Topik pentbahasan (VII) Tanga Tangan Tanggai Topik pentbahasan (VII) Tanggai Topik pentbahasan (VII) Topik pentbahasan (VII) Tanga Tangan Tanggai Topik pentbahasan (VII) Topik pentbahasan (VII) Tanga Tangan Tanggai Topik pentbahasan (VII) Tanggai Topik pentbahasan (VII) Tanggai Topik pentbahasan (VII) Keampuan, saran dan daftar penalaka <th></th> <th>Bulan: i_{1} $MM.$ l_{1} m_{2} $Tanggal$ Tanggal 4 = 6b - 759.2</th> <th>16-05-20-21</th> <th>Bulan : MJC)</th> <th>Bulan: 49.8:14 Tanggal 19 - 64 - 70 72</th> <th>Tanggal 946-63-2623</th> <th>05-12 - 2022</th> <th>Bulan : D.s.s.smbsf Tanggal</th> <th></th> | | Bulan: i_{1} $MM.$ l_{1} m_{2} $Tanggal$ Tanggal 4 = 6b - 759.2 | 16-05-20-21 | Bulan : MJC) | Bulan: 49.8:14 Tanggal 19 - 64 - 70 72 | Tanggal 946-63-2623 | 05-12 - 2022 | Bulan : D.s.s.smbsf Tanggal | |
|---|--|--|--|---|---|--|---|----------------------------------|--|
| YAYASAN WIJAYA KUSUMA VERSITAS WIJAYA KUSUMA SURABAYA FAKULAS KEDOKTERAN LITIAN, PENGABDIAN MASYARAKAT DAN PUBLIKASI Desel Penebinisirg Togit Penebinisirg Tanda Tangan Tanggal Togit penebinisirg Tanda Tangan Balan : MM: Anno Togit penebahasan Dosen Penebinisirg Balan : MM: Anno Togit penebahasan VII Tanggal Togit penebahasan VII Tanggal Togit penebahasan VII Tanggal Togit penebahasan VII Balan : MM: Anno Togit penebahasan VII Tanggal Togit penebahasan VII Tanggal Togit penebahasan VII Balan : | Artikel hasil penelitian/Studi Literatur untuk publikasi Artikel hasil penelitian/Studi Literatur untuk publikasi | Topik pembahasan X Artikel hasii penelitian/Studi Literatur untuk mblikasi | Kesimpulan, saran dan daltar pustaka Kesimpulan, saran dan daftar pustaka Kesimpulan, saran dan daftar pustaka | Hasil penelitian/Studi Literatur dan pembahasan Hasil penelitian/Studi Literatur dan pembahasan Topik pembahasan IX | Topik pembahasan VIII Hasil penelitian/Studi Literatur dan pembahasan Hasil penelitian/Studi Literatur dan pembahasan | Topik pembahasan VII Pengumpulan data Pengumpulan data Pengumpulan data | Metode penelitian/Studi Literatur Metode penelitian/Studi Literatur Metode penelitian/Studi Literatur | Topik pembahasan VI | UNI UNIT PENE JIn. Duk |
| AYA KUSUMA KUSUMA SURABAYA EDOKTERAN MASYARAKAT DAN PUBLIKASI baya TelpFax. 566631-5614001 Tanggal V7- \$1 - β ₀ β ₁ Tanggal Balan : Minimum Tanggal Tanggal N ₁ - 0 \$5 - 9 ₀ β ₁ ? Tanggal Balan : | UNE | , Tanda Tangan Dosen Pembimbing | - Day | VII Tanda Tangan Doard-Pembinbine | Tanda Tangan Dosen Pemblimbing | Tanda Tangan Dosen Zembumbing | Store & | Tanda Tangan Dosep Pembimbing | YAYASAN WIJ VERSITAS WIJAYA FAKULTAS KI LITIAN, PENGABDIAN uh Kupang XXV/54, Sur |
| AYA PUBLIKASI I-5614001 Topik pembahasan VII Topik pembahasan VII Topik pembahasan IX Topik pembahasan IX | | Bulan: | Langgu | Bulan : | Bulan : Miximum Tanggal $\lambda \xi_1 = 0.5 - g_0 g_3$ | Bulan:NΩr.: Tanggal 10 - 54 - 3-513 | 17-07-2017 | Bulan : MASSA Tanggal | AYA KUSUMA KUSUMA SURAE EDOKTERAN MASYARAKAT DAN MASYARAKAT DAN |
| | | Topik pembahasan X | | Toplk pembahasan IX | Topik pembahasan VIII | Topik pembahasan VII | | Topik pembahasan | AYA I PUBLIKASI I-5614001 |

Lampiran 13 Surat Pernyataan Persetujuan Unggah E-Repository

SURAT PERNYATAAN

Yang bertanda tangan di bawah ini:

Nama : Nurwasilah

NPM : 20700134

Program Studi : Pendidikan Dokter

Menyatakan dengan sesungguhnya bahwa hasil penelitian saya dengan judul:

"Hubungan Antara Tingkat Pendidikan Ibu dan Pendapatan Keluarga Terhadap Kejadian Stunting Pada Balita di Puskesmas Kota Madiun"

Bersedia untuk diunggah dalam *e-repository* Universitas Wijaya Kusuma Surabaya dan dimanfaatkan untuk masyarakat luas.

Surat pernyataan Persetujuan ini digunakan sebagaimana diperlukan.

Surabaya, 15 Juli 2023

Yang membuat pernyataan, "METERAL METERAL METE

NPM: 20700134

Keterangan:

Surat pernyatan ini harap diserahkan kepada perugas di Kesekretariatan Unit Penelitian, Pengabdian kepada Masyarakat, dan Publikasi (UPPP) Lampiran 14 Surat Pernyataan Persetujuan Unggah Majalah/Jurnal

SURAT PERNYATAAN

Yang bertanda tangan di bawah ini:

| Nama | : Nurwasilah |
|------|--------------|
| | |

NPM : 20700134

Program Studi : Pendidikan Dokter

Menyatakan dengan sesungguhnya bahwa hasil penelitian saya dengan judul:

"Hubungan Antara Tingkat Pendidikan Ibu dan Pendapatan Keluarga Terhadap Kejadian Stunting Pada Balita di Puskesmas Kota Madiun"

Bersedia untuk dimuat di dalam majalah atau jurnal ilmiah atas nama pembimbing dengan tetap mencantumkan nama saya sebagai peneliti.

Surabaya, 15 Juli 2023

Yang membuat pernyataan,

6AKX544921437 (Nurwasilah)

NPM: 20700134

Keterangan:

Surat pernyatan ini harap diserahkan kepada perugas di Kesekretariatan Unit Penelitian, Pengabdian kepada Masyarakat, dan Publikasi (UPPP)

The Relationship between Maternal Education Level and Family Income on the Incidence of Stunting in Toddlers at the Madiun City Health Center

Nurwasilah1*, Sukma Sahadewa², Andiani³

Faculty of Medicine, Wijaya Kusuma University Surabaya¹ Department of IKM, Faculty of Medicine, Wijaya Kusuma University Surabaya² Department of IKM, Faculty of Medicine, Wijaya Kusuma University Surabaya³ Jl. Dukuh Kupang XXV No. 54, Dukuh Kupang, Kec. Dukuh, Surabaya City, East Java

> Correspondence author email: <u>wasilahnur761@gmail.com</u> Phone: 082157418818

Abstract

Stunting is a condition that occurs in toddlers who experience growth failure due to chronic malnutrition based on a z-score (TB/U) value of less than -2 SD (Standard Deviation). Stunting can be caused by a low level of maternal knowledge. Family income is also a risk factor for stunting. The purpose of this study was to analyze the relationship between maternal education level and family income on the incidence of stunting in toddlers at the Madiun City Health Center. This study used an analytical observational method with a case control design. The population in this study was all mothers who had toddlers in Madiun City. Respondents in this study consisted of 34 people, obtained from questionnaires with the total sampling method. The results of *Chi-Square* analysis showed that there was no relationship between maternal education level (p = 0.290), no relationship between family income level (p = 0.628), maternal education level and family income level (p =(0.545) greater than p value = (0.05); showed that there was no relationship between maternal education level and family income level with the incidence of stunting in toddlers at the Madiun City Health Center. There is no relationship between maternal education level and family income with the incidence of stunting in toddlers at the Madiun City Health Center.

Keywords: *Stunting*, maternal education, family income

INTRODUCTION

Stunting is a condition that occurs in toddlers who experience growth failure due to chronic malnutrition based on a z-score (TB/U) value of less than -2 SD (Standard Deviation). Event stunting It can be caused by decreased cognitive function, decreased concentration, decreased learning power and school achievement, memory impairment, and impaired motor development of children, and has a long-term impact on decreased productivity that can hinder economic growth and cause intergenerational poverty. (Darmini et al., 2022; Rahmawati, 2020).

Number event *stunting* Currently it is still a nutritional problem in toddlers. The prevalence in the world is around 21.9% or 149 million toddlers experience *stunting* (Setyo et al., 2022). In Indonesia, the prevalence of children aged less than five years (toddlers) who suffer *stunting* is the second highest in Southeast Asia with an incidence rate of 31.8% in 2020. Incidence rate *stunting* The highest in Indonesia is in Timor Leste at 48.8%. In Southeast Asia, Laos is in position after Indonesia with a prevalence of 30.2%. Cambodia then ranks fourth by incidence figures *stunting* under-five by 29.9%. The Philippines follows with prevalence rates *stunting* the lowest in Southeast Asia with a prevalence is the prevalence rate of children sufferers *stunting* the lowest in Southeast Asia with a prevalence rate of only 2.8% (Asian Development Bank, 2021).

According to the results of the Indonesian Nutritional Status Study (SSGI) by the Ministry of Health, the incidence rate of toddlers *stunting* in 2021 it was 24.4%. These are *stunting* experienced by almost a quarter of Indonesian toddlers last year. In 2021, there were 23.5% of toddlers who experienced *stunting* in East Java Province (Ministry of Health of the Republic of Indonesia, 2021). Current prevalence *stunting* in Madiun City at 12.4%. Even though it is far below the 14% figure that is the national target in 2024, the Madiun City Government continues to reduce the incidence rate *stunting* with a target of reaching 0%. (Madiun City Health Office, 2019).

Some influencing factors *stunting* Among them are poverty, lack of awareness about health, poor nutrition and also improper parenting causing growth and development failure in toddlers. *Stunting* can also be caused by the factor of low maternal knowledge level (Agustin &; Rahmawati, 2021). The level of education in a person can be affected when a person receives information. People with better education will be easier to receive information than people with less level of education. This information is used as a provision for mothers to take care of their children in everyday life. The maternal's education level usually affects the maternal's knowledge about toddler nutrition. Where the higher the education, it will be easy to absorb information about health, for example nutritional knowledge. The maternal's level of knowledge plays a significant role with the incidence *stunting*. (Sari &; Zelharsandy, 2022; Husnaniyah et al., 2020).

Level Education of the population in Madiun City with elementary school graduates and below the percentage is 12.87%, junior high school is 14.05%, high school is 19.93%, the highest percentage is SMK graduates at 26.31%, Diploma I/II/III at 5.23%, while residents who graduated from higher education are S1/Diploma IV at 21.60% (Central Bureau of Statistics Madiun, 2022). Based on these data, it can be seen that the most education completed by residents in Madiun City in 2022 is SMK, which is 26.31%, while the least is Diploma I/II/III, which is 5.23% (Central Bureau of Statistics Madiun, 2022).

Family income factors are also risk factors of *stunting*. This is because parents are able to meet all the primary and secondary needs of their children, an adequate family income will support their growth and development (Soetjinigsih, 2012). Families with incomes less than the Regional Minimum Wage are 6 times more likely to experience *stunting* (Agustin &; Rahmawati, 2021). According to the Central Statistics Agency (BPS), the economy of Madiun City grew by 4.73% in 2021. The economic growth of Madiun City

in 2021 which reached 4.73 percent, increased 7% from 2020 which was minus 3.39 percent.

The purpose of this study was to analyze the relationship between maternal education level and family income on incidence *stunting* in toddlers at the Madiun City Health Center.

METHODS

This study used an analytical observational method with *a case control* design. In this study to determine the relationship between maternal education level and family income on the incidence of stunting in toddlers at the Madiun City Health Center. The population in this study was all mothers who had toddlers in Madiun City. Respondents in this study consisted of 34 people, obtained from questionnaires with the total sampling method.

RESULTS

1. Univariate Analysis Results

Figure 1. Distribution of Stunting Incidence

Respondents in this study consisted of 34 people (100%) who suffered from stunting as much as 50% (17 respondents) and those who did not suffer from stunting as much as 50% (17 respondents). The distribution of respondents based on the degree of Stunting Incidence can be seen in table 1 below.

Table 1: Distribution of respondent on stunting incidence

| Stunting Events | No. of respondents | % |
|-----------------|--------------------|-----|
| Stunting | 17 | 50 |
| No stunting | 17 | 50 |
| Total | 34 | 100 |

Source: Research 2023

Figure 2. Distribution of Toddlers Age

The ages of respondents in this study were mostly aged ≤ 10 months is 67.6% (23 respondents), while the remaining 32.4% (11 respondents) are aged > 10 months. The distribution of respondents by sex can be seen in table 2 below.

Table 2: Frequency Distribution of Respondents by Age

| Age | No. of respondents | % | |
|------------------|--------------------|------|--|
| \leq 10 months | 23 | 67,6 | |
| > 10 | 11 | 32,4 | |
| Total | 34 | 100 | |

Source: Research 2023

Figure 3. Distribution of Toddlers Gender

Most of the respondents in this study had a female gender, which was 58.8% (20 respondents), while the remaining 41.2% (14 respondents) had a male gender. The distribution of respondents by gender be seen in table 3 below.

Table 3: Frequency distribution of respondents by gender

| Gender | No. of respondents | Percent | |
|--------|--------------------|---------|--|
| Woman | 20 | 58,8 | |
| Man | 14 | 41,2 | |
| Total | 34 | 100 | |

Source: Research 2023

Figure 4. Distribution of Maternal's Occupation

In this study, respondents who fell into the working category were 35.3% (12 respondents) and respondents who were included in the non-working category as many as 64.7% (22 respondents). The distribution of respondents based on maternal's occupation can be seen in table 4 below.

| Category | No. of respondents | Percent |
|---------------|--------------------|---------|
| Work | 12 | 35,3 |
| Does not work | 22 | 64,7 |
| Total | 34 | 100 |

Table 4: Frequency Distribution of Respondents by Maternal's Occupation Source: Research 2023

Figure 5. Distribution of Maternal Education Level

In this study, respondents who had a low level of education were 38.2% (13 respondents) and respondents who had higher education as many as 61.8% (21 respondents). The distribution of respondents based on maternal education level can be seen in table 5 below.

Table 5 : Frequency distribution of respondents based on maternal education level

| Category | No. of respondents | Percent | |
|------------------|--------------------|---------|--|
| Lower education | 13 | 38,2 | |
| Higher education | 21 | 61,8 | |
| Total | 34 | 100 | |

Source: Research 2023

Figure 6. Distribution of Family Income Level

In this study, respondents who had income < MSEs in Madiun City were 14.7% (5 respondents) and respondents who had income \geq UMK Kota Madiun as much as 85.3% (29 respondents). The distribution of respondents based on family income level can be seen in table 6 below.

| Table 6 : Distribution of respondents' frequency by family income level | | | | | | | |
|---|--------------------|---------|--|--|--|--|--|
| Category | No. of respondents | Percent | | | | | |
| < UMK Kota | 5 | 14,7 | | | | | |
| ≥ UMK City | 29 | 85,3 | | | | | |
| Total | 34 | 100 | | | | | |

Source: Research 2023

Figure 7. Distribution of Maternal Education Level and Family Income Level to Stunting Groups

In this study, respondents who had risk factors based on maternal education level and income were 8.8% (3 respondents), respondents who did not have risk factors based on maternal education level and income were 91.2% (31 respondents).

The distribution of respondents based on parental employment status can be seen in table 7 below.

Table 7: Distribution of respondents' frequency based on maternal's education level, family income level against stunting groups

| Category | No. of respondents | Percent | |
|----------------|--------------------|---------|--|
| High risk (<3) | 3 | 8,8 | |
| Low risk (≥3) | 31 | 91,2 | |
| Total | 34 | 100 | |

Source : Research 2023

2. Results of Bivariate Analysis

Figure 8. The relationship between the maternal's education level and the incidence of stunting that occurs in toddlers at the Madiun City Health Center.

 Table 8: Results of Hypothesis Test Based on Maternal Education Level on Stunting Incidence

| Maternal's Education | Stunting | | | | P-Value |
|----------------------|----------|-----|---------|-----|---------|
| | Case | | Control | | |
| Level | Ν | % | Ν | % | |
| Lower Education | 8 | 47% | 5 | 29% | 0,290 |
| Higher Education | 9 | 53% | 12 | 71% | |

Source : Research 2023

From the results of the analysis *Chi-Square* indicates that the significance value of 0.290 is greater than the value of p value = 0.05; showed that there was no relationship between the maternal's education level and the incidence of stunting in toddlers at the Madiun City Health Center.

Figure 9. The relationship between family income level and the incidence of stunting that occurs in toddlers at the Madiun City Health Center.

| Incidence | | | | | |
|---------------------|----------|-----|---------|-----|---------|
| Family Income Level | Stunting | | | | P-Value |
| | Case | | Control | | |
| | N | % | Ν | % | |
| < MSEs | 2 | 12% | 3 | 18% | 0,628 |
| ≥UMK | 15 | 88% | 14 | 82% | |
| | | | | | |

 Table 9: Results of Hypothesis Test Based on Family Income Level on Stunting Incidence

Research Source : 2023

From the results of the analysis *Chi-Square* indicates that the significance value of 0.628 is greater than the value of p value = 0.05; showed that there was no relationship between family income level and the incidence of stunting in toddlers at the Madiun City Health Center.

Figure 10. The relationship between the maternal's education level and family income level with the incidence of stunting that occurs in toddlers at the Madiun City Health Center.

| Risk Factors (Maternal's | Stunting | | | | P-Value |
|---------------------------------|----------|-----|-----|------|---------|
| Education | cation C | | Con | trol | |
| Level and | Ν | % | | | |
| Family Income | | | Ν | % | |
| Level | | | | | |
| High Risk | 2 | 12% | 1 | 6% | 0,545 |
| Low Risk | 15 | 88% | 16 | 94% | |

Table V.10: Hypothesis Test Results Based on Maternal Education Level and Family Income Level

Source: Research 2023

From the results of the analysis *Chi-Square* indicates that the significance value of 0.545 is greater than the value of p value = 0.05; showed that there was no relationship between maternal education level and family income level with the incidence of stunting in toddlers at the Madiun City Health Center.

DISCUSSION

Figure 4 and 6 showed that respondents who had income < MSEs in Madiun City as much as 14.7% and respondents who had income in MSEs \geq in Madiun City as much as 85.3%. This shows that the majority of toddler families in the Madiun City Health Center have MSE income in Madiun City. \geq

Both high and low income levels impact a family's ability to afford nutritious food. A family with sufficient money will be able to meet all the primary and secondary needs of its children. Families with good financial condition also have easier access to health services. Children from low-income families typically eat less, both in terms of quantity and variety. People with high socioeconomic levels tend to choose and buy a variety of healthy foods (Sutarto *et al.*, 2020).

Low family income has a direct impact on stunting because it forces families to choose less nutritious foods to meet their nutritional needs. In addition, due to poor food quality, more and more children are malnourished, which causes nutritional problems in toddlers (Yanti, 2021). Stunting is more prevalent in children from low-income families than children from well-off or high-income families (Habimana, 2019).

The results of Wati's research (2018) show that most toddlers with low nutritional status have low-income families. Families with low incomes will usually find it difficult to meet their nutritional needs. Families with middle to lower economic status have the possibility to consume food with low nutrition in toddlers, and this has an impact on the nutritional status of toddlers.

The results found that out of 100% of toddlers, there are 50% of toddlers who are stunted and 50% of toddlers who are not stunted. Some toddlers who are not stunted occur because their parents have provided them with all the essential nutrients for their growth and development, including minerals, vitamins, fats, carbohydrates, and proteins. While stunted toddlers are caused by mothers who do not pay enough attention to the food and health needs of their children, this problem can also be caused by infectious

infections that worsen children's health and interfere with their growth (Fakhma and Dhewi, 2020).

Figure 5 showed that a highly educated mother may have a better outcome for her child's health and nutrition. The maternal's level of education can ease the mother's ability to understand and absorb nutritional information. Education is needed so that there are more mothers who are able to solve nutrition and nutrition problems in the family and can act as soon as possible if they are not fulfilled (Sutarto *et al.*, 2020).

The function of maternal education is to increase children's insight into themselves and their environment. The length of education taken determines the level of education of the mother. Highly educated mothers are easier to digest health information, especially in educating toddlers every day. Toddler development can be influenced by a number of factors, especially those related to parenting and education. Children who have mothers who are poorly educated may find it difficult to get information, so children tend to experience delays in growth, due to parenting style (Nurmalasari *et al.*, 2020).

The level of education, especially the mother, affects the health of her family, including the nutritional condition of family members. Maternal education also affects parenting for children because mothers are the main food managers at home, so it has a great influence on the nutritional status of all family members (Noviyanti, Rachmawati, and Sutajo, 2020).

Stunting is a picture of chronic undernutrition status at the time most important for growth and development in infancy. Stunting is caused by various causes, not only malnutrition that experiences children under five and pregnant women (Ministry of Health of the Republic of Indonesia, Directorate General of Community Nutrition, 2018).

Figure 8 found that there was no relationship between the maternal's education level and the incidence of stunting in toddlers at the Madiun City Health Center, as evidenced by a significance value of 0.290 greater than 0.05. These results show that the level of maternal education is not a factor that causes stunting in toddlers at the Madiun City Health Center. This result is in accordance with research by Suharmianti and Agus (2018) which found no relationship between maternal education level and stunting status. Mothers who have a low level of education may or may not have knowledge about nutrition. Since a high level of education does not mean the mother has sufficient knowledge about healthy nutrition, a high level of maternal education does not guarantee that her child will not suffer from malnutrition. Mothers with low education diligently participate in posyandu and toddler nutrition counseling in order to gain the necessary knowledge and be able to take good care of their children (Suharmianti and Agus, 2018).

Based on research conducted by Satoto in 1997, this could be because the height/age indicator reflects previous nutritional history and is less sensitive to changes in nutritional inputs, where in this case the mother plays a role in the distribution of nutritional inputs. Height can only increase or stay at a certain moment, unlike weight, which can increase, decrease, or remain constant. Under normal circumstances, height grows with age. In addition, there is no relationship between maternal education and the incidence of stunting because the maternal's education level is not the only factor causing the problem of malnutrition because there are many other factors that can influence the occurrence of malnutrition problems.

Based on the data obtained by researchers, there are mothers who have a low level of education but have toddlers who are not stunted, and vice versa mothers who

have a high level of education but have toddlers who are stunted due to one factor, namely the sex of the toddler itself. Based on other data obtained, it is known that mothers who have a low level of education but have toddlers who are not stunted are more female than male. Conversely, mothers who have a high level of education but have stunted toddlers are more male than female.

Baby girls have less muscle and more fat than baby boys. Muscle burns more energy than fat so men and women of the same height, weight, and age have different body compositions, which means their energy and nutrient needs will also be different (Almatsier, 2004).

In general, male toddlers are more active than female toddlers. Male toddlers often engage in more outdoor activities, such as running around, which makes them more likely to come into contact with dirty environments and expend more energy when their intake is restricted (Christin Angelina F., Agung Aji Perdana , and Humairoh. 2019).

There is a relationship between nutritional status and sex because gender determines the amount of nutrition a person needs. The difference in body composition between women and men affects the large gap in nutritional needs so that it requires even greater intake needs (Febriani et al., 2018).

Figure 9 showed that there was no relationship between family income level and the incidence of stunting in toddlers at the Madiun City Health Center, as evidenced by a significance value of 0.628 greater than 0.05. The results of this study are the same as research conducted by Dakhi in 2019 which stated that family income is not a risk factor for stunting. This can be because the income collected is used for various other purposes, not only to buy food. Because high income does not necessarily indicate that the money set aside is sufficient for food needs and is not a guarantee that toddlers will have a good nutritional status (Dakhi, 2019).

Based on the data obtained by researchers, there are families with low education levels but have toddlers who are not stunted, and vice versa there are families with high income levels but have toddlers who are stunted due to one of the factors, namely the maternal's occupation. Based on other data obtained, it is known that families with low income levels but have toddlers who are not stunted mostly have mothers who do not work. In contrast, families with high income levels but stunted toddlers mostly have working mothers.

A number of articles discussing the characteristics of mothers' employment status state that 75% of working mothers have children who are stunted. The majority of mothers under five in mountainous areas are farmers, so more children are stunted. This is related to non-exclusive breastfeeding because wives who have farmer husbands will help to work in the garden, especially at the beginning of the growing season. As mothers work more in the garden, mothers will leave their children to the care of others while they work. Therefore, before the baby is 6 months old the majority of mothers stop breastfeeding their babies (Leo et al, . 2018).

As many as 66% of unemployed mothers have normal children or are not stunted because mothers are always involved in the childcare process and are related to good parenting. Working mothers have a positive impact on income growth, but on the other hand have a negative impact on child development and maintenance (Syahida, 2019).

Figure 10 showed that there was no relationship between maternal education level and family income with the incidence of stunting in toddlers at the Madiun City

Health Center, as evidenced by a significance value of 0.545 greater than 0.05. As previously explained, the results of this study are in accordance with research conducted by Erfince and Minarni (2020) which found no relationship between maternal education level and stunting incidence and research conducted by Grace, et al (2019) which stated that there was no relationship between income level and stunting incidence.

There is no relationship between the maternal's education level and stunting nutritional status because maternal education is not a guarantee that mothers have more knowledge related to nutrition. From direct observation, mothers who have a low level of education tend not to work, thus giving more time in the morning to go to the posyandu every day to get additional food and nutrition and health counseling (Erfince &; Minarni, 2020).

There is no relationship between family income level and stunting because families with income below MSEs can manage nutritious and healthy food with easy and affordable products so that during pregnancy mothers can meet nutritional needs and prevent stunting. High family income is not necessarily allocated enough for food needs so it is not a guarantee that the mother will have a good nutritional status. The study did not find any relationship between income and stunting prevention behavior during pregnancy because families with incomes below MSEs can still meet their family's food needs (Niswa, Joni, &; Florentina, 2019).

Based on the data obtained by researchers, there are toddlers who have high risk factors (mothers who have low levels of education and income) but have toddlers who are not stunted, and vice versa toddlers who have either (high education level with low income levels or vice versa) or all high risk factors (mothers who have high levels of education and income) but have toddlers who are stunted due to several factors i.e. the sex of the toddler and the maternal's occupation.

Based on other data obtained, it is known that toddlers who have high risk factors (mothers who have low levels of education and income) but have toddlers who are not stunted are more female than men and mothers who are not working than working mothers. Conversely, toddlers who have either (higher education level with low income level or vice versa) or all high risk factors (mothers who have high education and income levels) but have stunted toddlers are more male than female and working mothers than non-working mothers.

Baby girls have less muscle and more fat than baby boys. Muscle burns more energy than fat so men and women of the same height, weight, and age have different body compositions, which means their energy and nutrient needs will also be different (Almatsier, 2004).

In general, male toddlers are more active than female toddlers. Male toddlers often engage in more outdoor activities, such as running around, which makes them more likely to come into contact with dirty environments and expend more energy when their intake is restricted (Christin Angelina F., Agung Aji Perdana, and Humairoh. 2019).

There is a relationship between nutritional status and sex because gender determines the amount of nutrition a person needs. The difference in body composition between women and men affects the large gap in nutritional needs so that it requires even greater intake needs (Febriani et al., 2018).

Working mothers are associated with non-exclusive breastfeeding because wives who have farmer husbands will help to work in the garden, especially at the beginning of the growing season. As mothers work more in the garden, mothers will leave their children to the care of others while they work. Therefore, before the baby is 6 months old the majority of mothers stop breastfeeding their babies (Leo et al, . 2018).

As many as 66% of unemployed mothers have normal children or are not stunted because mothers are always involved in the childcare process and are related to good parenting. Working mothers have a positive impact on income growth, but on the other hand have a negative impact on child development and maintenance (Syahida, 2019).

CONCLUSION

Based on the results of the research and discussion above, several things can be concluded as follows:

- 9. The results found that 50% of toddlers who suffer from stunting and those who do not suffer from stunting as much as 50%.
- 10. At the Madiun City Health Center, most toddlers have a female gender.
- 11. Most toddlers at Puskesmas Kota Madiun have working mothers.
- 12. At the Madiun City Health Center, most toddlers have mothers with higher education.
- Most of the families under five in Puskesmas Kota Madiun have income from ≥ MSEs in Madiun City.
- 14. From the results of the study, it was found that there was no relationship between the level of maternal education and the incidence of stunting in toddlers at the Madiun City Health Center.
- 15. From the results of the study, it was found that there was no relationship between the level of family income and the incidence of stunting in toddlers at the Madiun City Health Center.
- 16. From the results of the study, it was found that there was no relationship between the level of maternal education and family income with the incidence of stunting in toddlers at the Madiun City Health Center.

REFERENCE

- Agustin, L., &; Rahmawati, D. 2021. The Relationship of Family Income with the Incidence of Stunting. Indonesian Journal of Midwifery (IJM), 4(1), 30. https://doi.org/10.35473/ijm.v4i1.715
- Akmal, Y., Hikmah, H., Subekti, I., &; Hardono, I. H. 2019. Strategy for decreasing the rate of stunting through early childhood health and nutrition training for tutors/parents of early childhood education. Journal of Obsession: Journal of Early Childhood Education, 4(1), 454. https://doi.org/10.31004/obsesi.v4i1.302
- Anasari, T., &; Suryandari, A. E. 2022. The Relationship between History of Hypertension

and Birth Spacing with the Incidence of Stunting. Journal of Bina Cipta Husada, 18(1), 107-117.

Angelina F., Christin., Prime, Agung Aji., &; Humairoh. 2019. Factors of *Stunting* in Lampung Province. World Journal of Public Health. 7 (3), 130.

Anna Ratnawati. 2020. Maternity Nursing Care. New library Pres. Yogyakarta

- Astutik, Rahfiludin, M. Z., &; Aruben, R. 2017. RISK FACTORS FOR STUNTING IN CHILDREN UNDER THE AGE OF 24-59 MONTHS (Case Study in the Working Area of Puskesmas Gabus II Pati Regency in 2017). Journal of Public Health, 6 (1), 2356-3346.
- Azriful, A. et al. 2018. 'Determinants of Stunting Incidence in Toddlers Aged 24-59 Months in Rangas Village, Banggae District, Majene Regency', Al-sihah: The Public Health Science Journal, 10(2), pp. 192–203. DOI: 10.24252/AS.V10I2.6874.
- Bardosono, S. 2019. Assessment of Nutritional Status of Toddlers (Anthropometry). Journall Faculty of Medicine UI.
- Burhanudin, M., Istiyani, N., &; Widjajanti, A. 2015. Factors Affecting Family Income in Banyuwangi District, Banyuwangi Regency. Student Scientific Articles, 1(1), 1–6.
- Candra, A., Science, B., Faculty, G., University, K., &; Semarang, D. 2020. Pathophysiology of Stunting. 8(2), 74–78.
- Cheikh Mbacké Faye, et all. 2018. Factors Associated With Recovery From Stunting Among Under-Five Children In Two Nairobi Informal Settlements. https://doi.org/10.1371/journal.pone.0215488. [13/11/2022]
- Cintya, & Dewi, R. 2015. Baby Growth Theory & Concept, Toodler; Children and Youth. Yogyakarta: Nuha Medika
- Dakhi A. 2019. The Relationship between Family Income, Education, and Maternal Knowledge about Nutrition with the Incidence of Stunting in Children Aged 6-23 Months in the Working Area of the Jati Makmur Health Center in North Binjai. J Health Masy Indones. VIII:3–77.
- Darmini, N. W., Fitriana, L. B., &; Vidayanti, V. 2022. The relationship between the level of maternal knowledge about balanced nutrition and the incidence of stunting in toddlers aged 2-5 years. Coping: Community of Publishing in Nursing, 10(2), 160. https://doi.org/10.24843/coping.2022.v10.i02.p06
- Goddess, I. 2019. Factors affecting the incidence of stunting in toddlers 24-60 months in the Working Area of the Lakudo Health Center, Central Buton Regency. Scientific Journal of Health Diagnosis, 14(1), 85-90.
- Fakhma and Dhevi. 2020. Analysis of factors related to the nutritional status of toddlers in the working area of the South Paringin Health Center, Balangan Regency in 2020. Islamic University of Kalimantan. http://eprints.uniska-bjm.ac.id/2322/
- Febriani, C. A., Prime, A. A., &; Humairoh, H. 2018. Factors in the incidence of stunting of toddlers aged 6-23 months in Lampung Province. World Journal of Public Health, 7(3).
- Febrianti, Y. 2020. Overview of Family Economic Status on Nutritional Status of Toddlers (BB/U) in Rumbai Pesisir District, Pekanbaru City. Thesis, 2(1), 5–7. http://jurnal.globalhealthsciencegroup.com/index.php/JPPP/article/download/8 3/65%0Ahttp://www.embase.com/search/results?subaction=viewrecord&from= export&id=L603546864%5Cnhttp://dx.doi.org/10.1155/2015/420723%0Ahttp://l ink.springer.com/10.1007/978-3-319-76
- Fikawati, Sandra, et al. 2017. Child and adolescent nutrition. Ed. 1. Cet. 1. Depok : Rajawali Press.

- Habimana, S., &; Biracyaza. 2019. Risk Factors Of Stunting Among Children Under 5 Years Of Age In The Eastern And Western Provinces Of Rwanda: Analysis Of Rwanda Demographic And Health Survey 2014/2015. Pediatric https://doi.org/10.2147/phmt.s222198
- Hadisuyitno, J., &; Riyadi, B. D. 2021. Determining Factors of Toddler Stunting in Batu City, Indonesia. 12(1), 231–234.
- Hariyani Sulistyoningsih, S., & KM, M. 2020. THE RELATIONSHIP BETWEEN PARITY AND EXCLUSIVE BREASTFEEDING WITH STUNTING IN TODDLERS (LITERATURE REVIEW). IN JOURNAL OF NATIONAL SEMINARS (Vol. 2, No. 01, pp. 1-8).
- Harjatmo TP, Par'i HM, Wiyono S. 2017. Textbook for Nutritional Status Assessment. Jakarta: Ministry of Health of the Republic of Indonesia.
- Hondro, I. H. 2021. Overview of mother's knowledge about stimulation of fine motor development in toddlers 0-5 years old in Lololakha Village. Scientific Papers, 1(1), 1–20.
- Husnaniyah, D., Yulyanti, D., &; Rudiansyah, R. 2020. The Relationship Between Maternal Education Level and the Incidence of Stunting. The Indonesian Journal of Health Science, 12(1), 57–64. https://doi.org/10.32528/ijhs.v12i1.4857
- Ika, L., &; Ariati, P. 2019. RISK FACTORS CAUSE OF STUNTING IN TODDLERS AGED 23-59 MONTHS. VI(1), 28–37.
- Imani, N. 2020. Stunting in Children: Recognize and Prevent Early Childhood. Hijaz Independent Library.
- Beautiful Budiastutik, &; Muhammad Zen Rahfiludin. 2019. Risk Factors for Stunting in Children in Developing Countries. Amerta Nutrition, 3(3), 122–129. https://doi.org/10.2473/amnt.v3i3.2019.122-129
- Istiany, Ari &; Rusilanti. 2013. Applied Nutrition. Bandung: PT Remaja Rosdakarya.
- Jayanti, R., &; Ernawati, R. 2021. Pregnancy Distance Factors Associated with Stunting Events at Puskesmas Harapan Baru Samarinda Seberang. Borneo Student Research (BSR), 2(3), 1705-1710.
- Juwita, S., Andayani, H., Bakhtiar, B., Sofia, S., &; Anidar, A. 2019. The Relationship between Total Family Income and Completeness of Basic Immunization with the Incidence of Stunting in Toddlers in Pidie Regency. Nanggroe Medika Medical Journal, 2(4), 1-10.
- Ministry of Health of the Republic of Indonesia Directorate General of Nutrition Mayarakat. 2018. Pocket Book of Nutritional Status Monitoring Results. Jakarta.
- Khoeroh, H., &; Indriyanti, D. 2017. Evaluation of Nutrition Management of Stunting Toddlers in the Working Area of the Sirampog Health Center. Unnes Journal of Public Health, 6 (3), 2252-6781.
- Kusumaningtyas, D. E., &; Deliana, S. M. 2017. Feeding Patterns on Nutritional Status of 12-24 Months of Age in Working Mothers Abstract. 2(89), 155–167.
- Langi, Grace K.L., Day Two, Vera T., Purba, Rudolf B., &; Pelanginang, Janeke I. 2019. Nutritional Intake and Family Income Level on the Incidence of Stunting in Children Aged 3-5 Years. Manado: Department of Nutrition Health Polytechnic Ministry of Health Manado, 11(2).
- Leo, A. R., Subagyo, H. W., &; Kartasurya, M. I. 2018. Risk factors for stunting in children aged 2-5 years in mountain and coastal areas. J.Gipas, 2(1), 51-63
- Lutviana, E., &; Budiono, I. 2019. Prevalence and determinants of undernutrition events in toddlers. PACKAGING: Journal of Public Health, 5(2).

- Madina, T. 2019. The Effect of Family Income on Household Consumption Behavior in an Islamic Perspective: A Case Study of Ilir Timur II District, Palembang. Journal of Sharia Economic Thought and Development, 4(2), 15– 24.https://ejournal.stebisigm.ac.id/index.php/esha/article/view/153
- Maharani, S. D. S., Wulandari, S. R., &; Melina, F. 2018. The relationship between the incidence of stunting and development in toddlers aged 3-5 years at the Kricak posyandu Yogyakarta. Health Scientific Journal, 7(1), 32–36. <u>https://doi.org/10.52657/jik.v7i1.1095</u>
- Mentari, S., &; Hermansyah, A. 2018. Factors Related to the Stunting Status of Anan Age 24-59 Months in the Working Area of UPK Puskesmas Siantan Hulu. Pontianak: Pontianak Nutrition Journal (PNJ), 01 (01).
- Metwally, A. M., El-Din, E. M. S., Shehata, M. A., Shaalan, A., El Etreby, L. A., Kandeel, W. A., Shaaban, S. A., and Rabah, T. M. 2016. Early life predictors of socio-emotional development in a sample of Egyptian infants', *PLoS ONE*, 11(7): 1–17. doi:10.1371/journal.pone.0158086.
- Mufdlilah. 2017. Guidebook for Empowering Breastfeeding Mothers in the Exclusive Breastfeeding Program. Yogyakarta
- Mugianti, S., Mulyadi, A., Anam, A. K., &; Najah, Z. L. 2018. Factors Causing Stunting Children Aged 25-60 Months in Sukorejo District, Blitar City. Journal of Ners and Midwifery, 5(3), 268–278. https://doi.org/10.26699/jnk.v5i3.art.p268-278
- Mustamine. 2018. Maternal Education Level and Exclusive Breastfeeding with the Incidence of Stunting in Toddlers in South Sulawesi Province. Food Nutrition Media. 25(1)
- Nasution, D. 2014. The relationship between low birth weight (BBLR) and the incidence of stunting in children aged 6-24 months in Yogyakarta City. Thesis. Gadjah Mada University. Downloaded from https://repository.ugm.ac.id/id/eprint/129665
- Ni'mah, C., and Muniroh, L. The relationship between education level, knowledge level and maternal parenting with wasting and stunting in poor toddlers. Indonesian Nutrition Media. 10(1): 84-90.
- Ngaisyah, R. D. 2015. Socioeconomic relationship with the incidence of stunting. Journal of Medical Respati.10(4): 65–70.
- Notoatmodjo, Soekidjo. 2018. Health Research Methodology. Jakarta: PT Rineka Cipta
- Noviyanti, L.A., Rachmawati, D.A. and Sutejo, I.R., 2020. An Analysis of Feeding Pattern Factors in Infants at Kencong Public Health Center. JOURNAL AMS, 6(1): 14-18.
- Nurdin, Ismail and Sri Hartati. 2019. Social Research Methodology.Surabaya: Media Friends of Scholars
- Nurmalasari, Y., Anggunan, &; Febriany, T. W. 2020. The relationship between maternal education level and family income with the incidence of stunting in children aged 6-59 months. Journal of Midwifery, 6(2): 205-211.
- Palino, Inochi, et al. 2017. Determinants of stunting incidence in toddlers aged 12-59 months in the working area of Puuwatu Health Center, Kendari City in 2016. Student Scientific Journal of Public Health. Volume 2, Number 6
- Pongreku, P. S, Sunarsih and Fatmawati. 2020. Factors Associated with the Incidence of Stunting in South Konawe District. Scientific Journal of Midwifery Stikes Mandala WaluyaVol 6, No 2 of 2020.
- Rahayu, Seni et al. 2019. The relationship of knowledge, attitudes, behaviors and characteristics of mothers about exclusive breastfeeding to the nutritional status

of infants. AcTion Journal: Aceh Nutrition Journal, Volume 4, Number 1.

- Rahayu, A., Yulidasari, F., Putri, A. O., &; Anggraini, L. 2018. Study Guide Stunting and Prevention Efforts. Stunting books and prevention efforts. Yogyakarta: CV Mine.
 Taken from http://kesmas.ulm.ac.id/id/wpcontent/uploads/2019/02/BUKU-REFERENSI-STUDY-GUIDESTUNTING_2018.pdf
- Rahman, A., Munandar, S. A., Fitriani, A., Karlina, Y., &; Yumriani. 2022. Understanding Education, Education Science and Elements of Education. Al Urwatul Wutsqa: Islamic Education Studies, 2(1), 1–8.
- Rahmawati, N. F., Fajar, N. A., &; Idris, H. 2020. stunting of toddlers of poor families receiving PKH in Palembang. 17(1), 23–33. https://doi.org/10.22146/ijcn.49696
- Rita Kirana, Aprianti, N. W. H. 2022. The influence of health promotion media on maternal behavior in stunting prevention during the Covid-19 pandemic (in kindergarten children of Kuncup Harapan Banjarbaru). Journal of Research Innovation, 2(9), 2899–2906.
- Rusdi, P. H. N. 2021. The relationship between the provision of nutrition and environmental sanitation to the incidence of stunting in toddlers. Human Care Journal, 6(3), 731-736.
- Salamung, N, Haryanto, J., &; Sustini, F. 2019. Factors Related to Stunting Prevention Behavior During Pregnancy in the Working Area of the Bondowoso Regency Health Center. Surabaya : Forikes Sound Health Research Journal, 10(4).
- Salsabila, S., Dewi Noviyanti, R., Pertiwi, D., Kusudaryati, D., &; Abstract, K. K. 2022. The Relationship Between Maternal Education Level and Parenting Style with the Incidence of Stunting in Toddlers Aged 12-36 Months in the Sangkrah Health Center Area. PROFESSION (Islamic Professional): Research Publication Media, 19(2), 143–151.
- Sanah Nor. 2017. Implementation of the function of puskesmas (community health center) in improving the quality of health services in Long Kali District, Paser Regency. EJournal Government Sciences, 5(1), 305–314.
- Sari, I. Y. 2016. Food Consumption and Nutritional Status of Children Under Five (24 59 Months) in Puger Wetan Fisherman Village, Puger District, Jember Regency [Jember University]. In Jember University. https://repository.unej.ac.id/handle/1234 56789/77677
- Sari, S. D., &; Zelharsandy, V. T. 2022. The Relationship of Family Economic Income and Maternal Education Level to the Incidence of Stunting. Journal of Midwifery Hope Ibu Pekalongan, 9(2), 108–113. https://doi.org/10.37402/jurbidhip.vol9.iss2.200
- Sebayang, Sofia., Rajagukguk, T. 2019. The Effect of Education, Training and Work Motivation on Teacher Performance in Private Elementary and Junior High School Budi Murni 3 Medan. METHONOMIX Journal of Management Science, 2(2), 105– 114.
- Setiawan, Y.A. 2019. Relationship Of Mother Factors And Stunting Incidence In Chil- dren (24-59 Months) In Buniwangi Village, Work Area Of Pagelaran Public Health Center, Cianjur Regency. International Seminar on Global Health. 3(1): 115-123.
- Setyaningsih A. 2020. Factors Affecting the Occurrence of Stunting in the Working Area of Wanareja 1 Health Center, Cilacap Regency in 2020. Thesis of Public Health Study Program STIKes Bina Cipta Husada Purwokerto.
- Setyo, C., Andhini, D., Nurfajriyani, I., Sadiya, H., &; Nurpuji, F. 2022. Stunting Prevention Efforts through Increasing Maternal Knowledge at the Pulasaren Health Center in

Cirebon City. 1(4), 381–386.

- Soetjiningsih. 2012. Child Development and Its Problems in Textbook I of Child and Adolescent Development Science. Jakarta :Sagungseto
- Suci, I., Puspa, M. B., Putri, M. A., &; Fatmarani, M. 2019. The Difference Between Hospital and Puskesmas. Journal of Health.
- Suryansyah. 2012. Portion Feeding for Infants and Toddlers, http://Health.detik.com/dokter/768
- Sutanto, Andina Vita and Fitriana, Yuni. 2018. Upbringing in pregnancy. Yogyakarta: New Library.
- Sutarto, Azqinar, T. C., Himayani, R., and Wardoyo. 2020. The Relationship between Maternal Education Level and Family Income with the Incidence of Stunting in Toddlers in the Working Area of the Way Urang Health Center, South Lampung Regency. World Journal of Public Health. 9(2): 256-263. http://ejurnalmalahayati.ac.id/index.php/duniakesmas/index
- Shahida, A. 2019. The Relationship between Education and Parental Work with the Growth of Toddlers in ingin Jaya Village, Rantau District, Aceh Tamiang Regency in 2018. Journal of Edukes, 2(1), 18-28.
- Tongkonoo, I. 2021. The Relationship of Socioeconomic and Environmental Factors with the Incidence of Stunting in Valita Aged 24-49 Months at the Gorontalo Regency Health Center. Thesis, 1(702518006).
- Wanimbo, Erfince, and Wartiningsih, Minarni. 2020. The Relationship between Maternal Characteristics and the Incidence of Baduta Stunting (7-24 Months). Surabaya : Journal of Health Management RS. Dr. Soetomo, 6(1).
- Wati, S. P. 2018. The relationship between education level, maternal knowledge and parental income with the nutritional status of children under the age of 1-5 years in Duwet Village, Wonosari District, Klaten Regency. *University of Muhammadiyah Surakarta*, 1–20.
- Wicaksono, K. E., &; Alfianto, A. G. 2020. The positive impact of health education on the level of family knowledge in nutrition management of stunted toddlers. Conference on Innovation and Application Of Science and Technology, 981-986.
- Yanti, T,. &; Fauziah, D. 2021. The Effect of Family Income on Stunting Incident in Preschool Children at Bogor City During COVID-19 Pandemic. Indian Journal of Public Health Research & Development, 12(2), 407–412. https://doi.org/10.37506/ijphrd.v12i2.14167
- Yulaikhah, L. 2019. Teaching Book of Obstetric Care of Pregnancy. In Journal of Chemical Information and Modeling (Vol. 53).
- Yuliana, E. 2017. Analysis of Student Knowledge About Healthy and Nutritious Food on School Snack Selection. Retrieved from http://repository.ump.ac.id/4114/3/Erlin%20Yuliana_BAB%20II.pdf on November 20, 20022 at 16:17 WIB.
- Yulistiana, Evayanti, 2015. The relationship between maternal knowledge and husband support for pregnant women on the regularity of antenatal care (ANC) visits at the Wates Health Center in Central Lampung in 2015. Journal of Midwifery Vol 1, No 2, July 2015: 81-90
- Yunianto, A. E., Fitri, Y., Wagustina, S., Fitrianingsih, E., &; Mulyani, N. S. 2020. Mother's height and calcium intake against stunting among children aged 3-5 years and the impact on child development. Sys Rev Pharm, 11(10), 606–611.

Bukti submit/publikasi jurnal [JIKW] Submission ক্র Acknowledgement Kotak Masuk Budhi Setiawan 22.23 ... kepada saya ~ The following message is being delivered on behalf of Jurnal Ilmiah Kedokteran. Nurwasilah Nurwasilah: Thank you for submitting the manuscript, "The **Relationship between Maternal** Education Level and Family Income on the Incidence of Stunting in Toddlers at the Madiun City Health Center" to Jurnal Ilmiah Kedokteran Wijaya Kusuma. With the online journal management system that we are using, you will be able to track its progress through the editorial process by logging in to the journal web site: Manuscript URL: https://journal.uwks.ac.id/ind ex.php/jikw/author/submission/3075 Username: nurwasilah If you have any questions, please contact me. Thank you for considering this journal as a venue for your work.

→ Teruskan

← Balas

Lampiran 17 Pernyataan Publikasi

Arsip: Sub Divisi Skripsi (UPPP)

Form: Skripsi 21

| Nama Mahasiswa | : Nurwasilah | | | |
|------------------------------|--|--|--|--|
| NPM | : 20700134 | | | |
| Dosen Pembimbing Utama | : Dr. dr. Sukma Sahadewa, M.Kes., S.H., M.H., S.Sos., CLA., FISPH., FISCM | | | |
| Dosen Pembimbing Pendamp | ing*) : dr. Hj. Andiani, M.Kes | | | |
| Dosen Penguji | : dr. Kartika Ishartadiati, M.Ked | | | |
| Judul Naskah/Artikel | : Hubungan Antara Tingkat Pendidikan Ibu dan Pendapatan | | | |
| | Keluarga Terhadap Kejadian Stunting Pada Balita di Puskesmas | | | |
| | Kota Madiun. | | | |
| Nama Jurnal Tujuan | : Jurnal Ilmiah Kedoktean Wijaya Kusuma | | | |
| Username Akun | : Nurwasilah | | | |
| Password Akun | : nurwa123 | | | |
| Kesepakatan penulis atas tah | pan rencana publikasi artikel yang akan dicapai ¹⁾ : | | | |
| 1. Submit | ₽ | | | |
| 2. Publish | | | | |

FORMULIR PERNYATAAN PUBLIKASI

Surabaya, 17 Juli 2023

Mahasiswa

DUI

Nurwasilah

Menyetujui,

Dosen Hembimbing Utama

Dr. dr. Sukma Sahadewa, M.Kes., S.H., M.H., S.Sos., CLA., FISPH., FISCM NIK. 10434-ET Dosen Pembimbing Pendamping

dr. Hj. Andiani, M.Kes NIK. 12700-ET

Dosen Penguji

Kartika Ishartadiati, M.Ked NIK. 197103182005012001

Keterangan:

- ¹⁾ Berikan tanda centang untuk tahapan yang sepakat akan diselesaikan oleh para penulis (mahasiswa, Dosen atau lainnya).
- ²⁰ Dosen Penguji bisa atau tidak dimasukkan sebagai penulis sesuai kesepakatan mahasiswa dan Dosen Pembimbing berdasarkan kontribusi terhadap naskah/artikel yang dipublikasi sebagai bagian dari Academic Honesty